

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: P332466-930

Luminaire Tested: **S123RDIW-S1000D1535U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332466-930
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: S123RDIW-S1000D1535U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8234.7 lumens
Efficiency: N/A
Efficacy: 107.5 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: Semi-Indirect

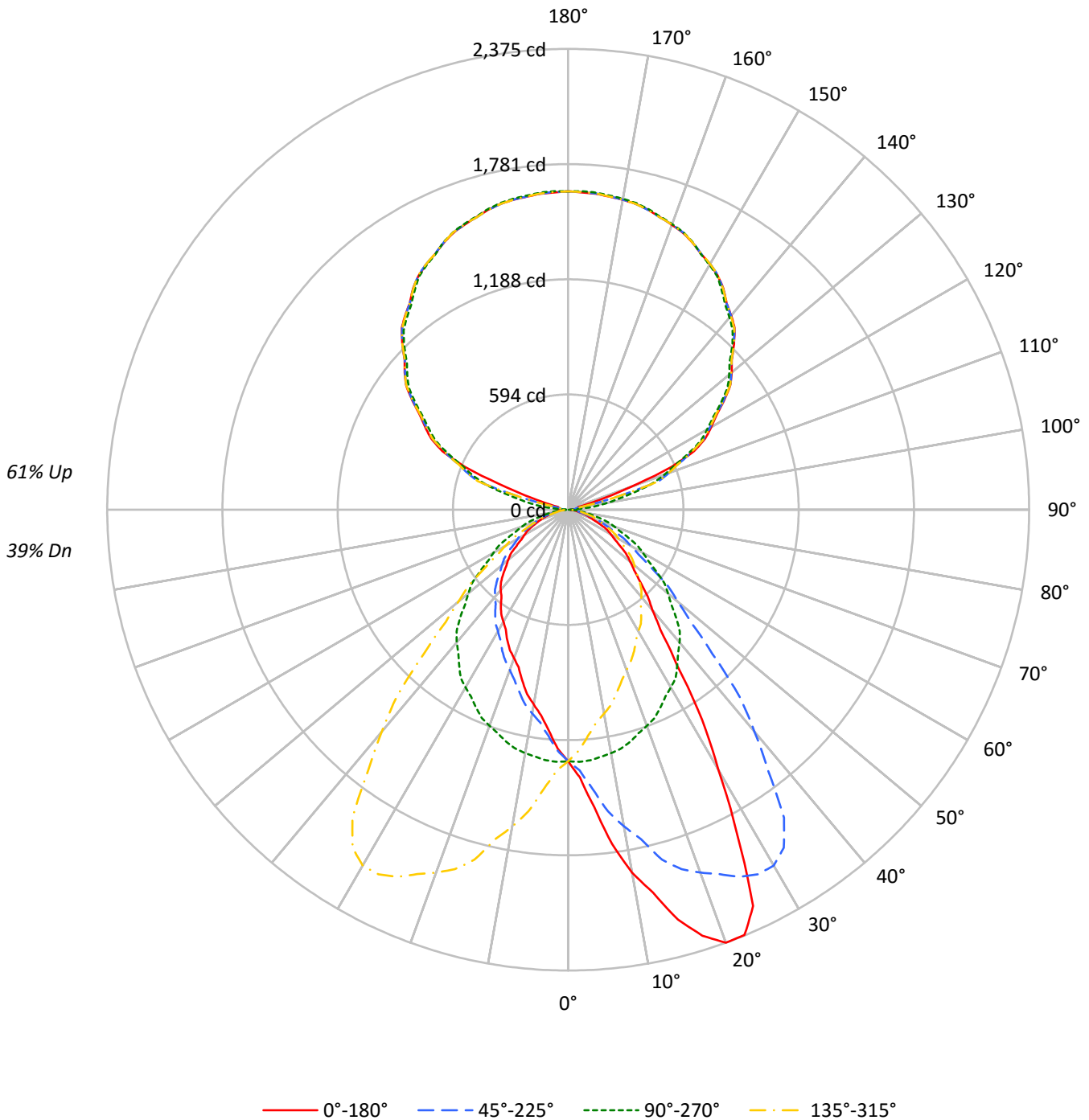
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	85	87	84	81	78	68	66	64	54	53	52	42	41	40	34
2	88	81	75	70	80	74	69	65	60	57	54	48	46	44	37	36	34	29
3	80	71	64	59	73	65	59	54	54	49	46	43	40	38	33	31	30	25
4	74	63	56	50	67	58	51	46	48	43	39	39	35	33	30	28	26	22
5	68	57	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23	19
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	22	20	17
7	58	46	38	33	52	42	36	31	35	30	26	29	25	22	23	20	18	15
8	54	42	34	29	49	38	32	27	32	27	24	26	23	20	21	18	16	14
9	50	38	31	26	45	35	29	24	30	25	21	24	21	18	19	17	15	13
10	47	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13951	13951	13951	13951
5°	16630	14011	12337	14011
10°	20764	13930	11146	13930
15°	24373	13788	10165	13788
20°	27202	13575	9330	13575
25°	26766	13351	8817	13351
30°	19240	13144	8289	13144
35°	12846	12875	7947	12875
40°	9465	12552	7593	12552
45°	7939	11985	7247	11985
50°	7005	11241	6764	11241
55°	6142	10393	6101	10393
60°	5470	9580	5591	9580
65°	4806	8706	5201	8706
70°	3770	7928	4749	7928
75°	3323	6924	4338	6924
80°	2889	5883	4265	5883
85°	2322	4730	4520	4730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.5
10°-20°	398.2	4.8
20°-30°	625.6	7.6
30°-40°	652.7	7.9
40°-50°	558.6	6.8
50°-60°	425.7	5.2
60°-70°	272.9	3.3
70°-80°	131.3	1.6
80°-90°	39.3	0.5
90°-100°	59.6	0.7
100°-110°	284.3	3.5
110°-120°	682.8	8.3
120°-130°	869.5	10.6
130°-140°	929.1	11.3
140°-150°	868.8	10.6
150°-160°	700.8	8.5
160°-170°	452.3	5.5
170°-180°	155.9	1.9
0°-30°	1151.2	14.0
0°-40°	1803.9	21.9
0°-60°	2788.2	33.9
0°-90°	3231.7	39.2
90°-120°	1026.8	12.5
90°-150°	3694.1	44.9
90°-180°	5003.0	60.8
0°-180°	8234.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1539	1297	1142	1297	1539	159
15°	2187	1237	912	1237	2187	620
25°	2254	1124	742	1124	2254	969
35°	978	980	605	980	978	641
45°	522	787	476	787	522	410
55°	327	554	325	554	327	296
65°	189	342	204	342	189	186
75°	80	166	104	166	80	86
85°	19	38	37	38	19	23
90°	36	1	36	1	36	17
95°	46	74	46	74	46	39
105°	54	363	54	363	54	123
115°	717	681	717	681	717	662
125°	980	960	980	960	980	875
135°	1208	1196	1208	1196	1208	931
145°	1393	1380	1393	1380	1393	870
155°	1518	1520	1518	1520	1518	700
165°	1599	1603	1599	1603	1599	452
175°	1634	1640	1634	1640	1634	156
180°	1640	1640	1640	1640	1640	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1380.5	1382.2	1376.5	1375.6	1368.9	1367.1	1367.1	1357.8	1352.0	1344.5	1340.0
5°	1539.1	1548.0	1543.5	1533.6	1516.9	1513.0	1502.5	1485.9	1467.0	1443.7	1432.6
7.5°	1737.3	1749.4	1744.7	1729.3	1711.9	1697.8	1668.1	1640.5	1601.7	1567.7	1538.7
10°	1899.7	1887.0	1877.0	1862.1	1845.9	1819.8	1788.8	1746.0	1696.7	1657.8	1614.6
12.5°	2021.4	2019.3	2006.6	1991.2	1968.5	1943.7	1905.5	1853.5	1796.1	1740.0	1690.4
15°	2187.2	2190.5	2182.1	2166.1	2133.9	2090.1	2032.4	2010.8	1928.6	1867.6	1806.5
17.5°	2301.9	2301.3	2300.1	2277.9	2245.0	2213.8	2160.3	2103.4	2029.0	1943.0	1860.8
20°	2374.7	2369.2	2370.2	2345.3	2320.9	2284.8	2232.7	2150.0	2089.0	1989.7	1904.8
22.5°	2372.9	2371.8	2376.0	2367.5	2349.8	2322.1	2281.0	2211.3	2133.3	2033.1	1937.6
25°	2253.7	2249.3	2275.4	2282.6	2310.9	2315.9	2303.7	2265.4	2191.6	2088.4	1970.3
27.5°	1886.2	1883.7	1932.2	1992.8	2069.6	2129.2	2187.0	2214.8	2191.6	2117.7	1999.3
30°	1548.0	1600.2	1624.6	1712.2	1809.9	1926.4	2028.5	2125.6	2149.5	2117.3	2020.1
32.5°	1285.2	1330.7	1351.1	1426.4	1517.4	1653.8	1807.0	1944.5	2041.6	2066.2	2007.8
35°	977.6	978.2	1024.7	1058.1	1142.4	1282.8	1431.5	1615.7	1798.8	1937.5	1951.9
37.5°	780.1	782.9	811.1	844.2	907.5	981.7	1112.6	1265.8	1477.3	1690.3	1815.1
40°	673.6	678.6	699.7	732.4	777.9	833.9	936.0	1080.3	1256.7	1493.6	1687.3
42.5°	605.2	613.3	624.2	649.4	677.6	730.0	812.6	924.1	1084.5	1308.6	1531.9
45°	521.5	525.9	534.3	545.9	571.4	608.1	663.6	738.5	871.6	1052.0	1275.5
47.5°	460.1	457.7	466.5	476.0	492.9	517.9	555.1	616.2	711.2	855.9	1045.5
50°	418.3	417.8	423.9	431.1	447.2	465.5	496.0	542.1	617.5	737.4	911.0
52.5°	379.3	381.4	385.7	394.7	406.3	421.1	448.5	481.7	546.5	650.0	794.8
55°	327.3	329.1	335.1	340.1	348.5	363.4	380.6	408.4	452.7	524.9	644.2
57.5°	283.4	282.7	288.5	289.8	299.1	311.4	324.7	346.3	378.4	432.0	512.3
60°	254.1	252.4	257.5	261.3	266.4	276.3	287.4	308.5	334.0	373.4	442.2
62.5°	227.5	226.7	230.4	234.2	238.4	247.4	256.8	273.0	293.2	326.4	381.0
65°	188.7	190.3	192.0	193.6	195.8	201.4	210.3	221.4	235.2	258.5	297.9
67.5°	148.2	149.9	150.5	153.9	158.7	162.2	167.5	177.4	187.1	206.8	229.2
70°	119.8	119.3	119.8	121.5	127.6	133.7	141.0	148.1	154.3	168.1	186.9
72.5°	103.0	102.0	103.5	103.8	106.7	108.4	113.0	119.8	127.6	137.1	150.6
75°	79.9	79.9	79.9	79.9	82.1	83.2	84.9	86.6	89.4	93.8	103.8
77.5°	59.0	59.1	59.9	60.5	60.9	61.6	62.6	64.2	65.2	67.6	71.9
80°	46.6	47.1	46.6	47.1	47.1	48.3	48.8	50.5	51.0	53.8	55.5
82.5°	35.1	34.7	35.1	35.6	35.6	36.8	36.9	38.1	38.2	39.6	41.3
85°	18.8	17.8	18.8	18.3	19.4	18.3	18.8	20.0	20.0	20.5	22.7
87.5°	11.7	12.6	11.5	11.9	11.7	12.1	11.8	11.6	12.3	11.7	11.3
90°	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4	30.3	29.3	25.8
92.5°	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7	32.9	31.2	28.5
95°	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6	39.7	37.7	34.8
97.5°	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6	41.4	39.2	58.8
100°	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5	42.4	40.2	82.5
102.5°	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8	73.5	80.2	126.4
105°	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0	219.0	266.9	291.3
107.5°	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9	454.1	489.3	485.4
110°	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8	540.8	549.7	546.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5	611.3	611.1	608.1
115°	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1	702.3	699.6	697.2
117.5°	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8	787.6	785.5	784.2
120°	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4	843.2	841.0	840.2
122.5°	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6	898.1	896.6	895.5
125°	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2	975.7	975.1	974.0
127.5°	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9	1052.0	1051.2	1049.9
130°	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1	1098.0	1097.0	1095.9
132.5°	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0	1141.9	1140.8	1140.0
135°	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9	1206.8
137.5°	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8	1267.5	1266.2	1265.6
140°	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4	1305.3	1304.2	1303.3
142.5°	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0	1341.1	1340.3	1339.5
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8	1391.2	1390.7	1390.2
147.5°	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4	1435.9	1435.3	1434.8
150°	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7	1463.1	1462.6	1462.1
152.5°	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0	1487.0	1486.0	1485.7
155°	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4	1520.0	1518.7	1518.4
157.5°	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5	1548.8	1547.2	1547.5
160°	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1	1565.5	1563.8	1564.1
162.5°	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1	1580.3	1578.4	1578.7
165°	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2	1600.1	1597.9	1598.2
167.5°	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6	1613.6
170°	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3	1622.3
172.5°	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5	1630.4	1628.2	1627.9
175°	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5	1637.6	1635.7	1635.4
177.5°	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1	1640.4	1638.7	1638.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1338.2	1336.9	1330.7	1323.6	1314.3	1308.1	1303.2	1300.6	1292.6	1282.8	1276.1
5°	1420.9	1404.3	1386.6	1364.9	1344.9	1324.4	1311.7	1296.7	1278.3	1257.8	1243.4
7.5°	1509.5	1476.8	1441.7	1405.4	1369.5	1337.4	1309.0	1284.7	1255.5	1226.0	1205.4
10°	1577.4	1529.7	1480.3	1429.8	1383.7	1340.5	1307.2	1274.5	1239.5	1205.7	1180.1
12.5°	1639.1	1576.3	1519.4	1457.3	1398.4	1346.7	1298.8	1260.3	1218.2	1182.1	1153.1
15°	1717.2	1652.9	1584.0	1489.7	1411.5	1346.1	1287.8	1237.3	1186.3	1141.8	1113.5
17.5°	1790.2	1693.4	1600.9	1522.2	1420.6	1338.8	1267.7	1207.3	1151.3	1104.2	1069.4
20°	1820.4	1726.6	1626.2	1525.8	1426.0	1334.4	1251.7	1185.1	1126.9	1073.6	1041.5
22.5°	1838.6	1732.4	1626.7	1518.7	1412.6	1317.5	1235.7	1162.5	1099.3	1048.7	1009.0
25°	1859.8	1733.3	1616.8	1510.3	1402.1	1298.9	1201.8	1124.1	1055.9	1002.0	959.9
27.5°	1873.8	1725.0	1587.3	1468.8	1359.1	1256.4	1167.3	1085.0	1015.8	958.9	913.6
30°	1876.5	1718.3	1564.6	1436.5	1324.9	1230.6	1136.3	1057.5	984.3	923.8	881.7
32.5°	1880.0	1701.9	1534.0	1397.8	1283.7	1190.3	1104.8	1029.6	954.6	895.0	851.9
35°	1865.4	1692.8	1487.5	1331.1	1216.8	1126.3	1049.2	979.8	906.0	848.3	804.5
37.5°	1802.3	1656.8	1439.3	1255.8	1136.3	1052.6	989.7	929.3	861.5	799.3	758.0
40°	1738.9	1621.2	1402.1	1210.1	1085.2	999.2	942.6	893.3	827.9	769.6	725.2
42.5°	1644.3	1572.9	1366.6	1162.1	1027.5	944.7	896.9	850.7	793.2	734.0	692.4
45°	1470.9	1480.3	1293.9	1085.8	947.6	864.5	819.5	787.3	736.3	687.5	644.7
47.5°	1253.4	1341.6	1208.5	1004.4	863.4	785.3	746.0	718.0	683.5	635.6	596.6
50°	1111.3	1237.3	1140.2	949.9	810.7	733.0	694.1	671.3	641.4	603.6	566.5
52.5°	980.4	1115.7	1057.6	889.1	753.3	682.3	644.4	625.7	601.9	566.4	532.7
55°	799.5	936.5	923.2	797.3	667.5	603.6	574.8	553.8	537.6	511.0	484.4
57.5°	646.7	776.7	783.5	695.2	591.8	528.7	503.9	488.0	477.5	457.4	432.8
60°	550.4	669.7	693.0	626.4	537.6	482.2	457.7	445.0	436.7	420.5	401.7
62.5°	470.5	572.0	598.4	550.5	485.7	433.7	414.7	402.4	396.7	382.9	366.2
65°	360.1	444.4	469.9	443.3	409.4	367.9	352.3	341.8	336.8	329.1	316.8
67.5°	270.8	332.2	360.2	341.4	329.2	303.0	293.1	287.4	283.0	277.6	267.4
70°	217.5	263.0	291.9	286.8	276.9	263.0	255.8	251.9	247.4	243.0	234.2
72.5°	174.9	206.2	233.3	235.8	227.6	224.9	218.5	216.9	214.2	208.9	204.0
75°	115.9	137.6	156.5	163.7	167.0	169.7	167.0	166.5	165.9	161.4	158.7
77.5°	76.0	87.6	99.5	111.9	117.1	120.8	121.7	123.8	122.3	119.9	118.6
80°	58.3	61.1	69.4	79.9	88.2	91.6	93.8	94.9	94.3	93.8	91.6
82.5°	42.3	44.6	48.5	55.9	62.9	68.5	69.8	69.5	70.8	71.1	69.4
85°	22.7	23.3	24.4	25.5	29.4	35.5	37.2	38.3	39.4	39.4	36.0
87.5°	11.6	10.4	10.6	9.9	10.8	10.7	12.8	14.4	15.4	14.2	14.8
90°	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2	3.9	6.6	9.4
92.5°	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7	21.9	21.1	20.4
95°	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4	63.3	52.2	41.0
97.5°	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4	144.5	139.5	134.4
100°	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0	211.4	216.8	222.3
102.5°	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4	274.3	278.2	282.0
105°	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2	366.2	369.2	372.2
107.5°	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2	463.6	465.9	468.4
110°	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5	528.7	530.8	533.0



TEST NUMBER: P332466-930

CATALOG NUMBER: S123RDIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0	590.9	592.9	594.8
115°	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3	683.0	684.6	686.2
117.5°	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8	772.8	774.8	776.8
120°	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4	828.8	831.3	833.7
122.5°	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0	884.9	887.0	888.9
125°	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4	962.6	964.8	966.9
127.5°	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5	1037.7	1039.9	1042.0
130°	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3	1084.5	1086.7	1088.8
132.5°	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2	1129.4	1131.6	1133.7
135°	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7	1197.3	1199.0	1200.6
137.5°	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2	1256.3	1258.3	1260.4
140°	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2	1294.9	1296.5	1298.1
142.5°	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3	1330.9	1332.5	1334.2
145°	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7	1381.6	1383.6	1385.4
147.5°	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3	1428.6	1429.8	1431.0
150°	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5	1457.3	1458.2	1459.0
152.5°	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9	1483.3	1483.6	1484.0
155°	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9	1519.4	1518.8	1518.3
157.5°	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7	1548.7	1548.6	1548.5
160°	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3	1565.9	1565.7	1565.5
162.5°	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8	1582.1	1581.4	1580.7
165°	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8	1602.0	1601.2	1600.4
167.5°	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4	1617.3	1616.2	1615.2
170°	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2	1626.1	1625.0	1623.9
172.5°	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0	1631.7	1630.4	1629.1
175°	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5	1639.2	1637.9	1636.6
177.5°	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5	1641.4	1640.4	1639.3
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332466-930

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1273.9	1268.1	1264.1	1255.2	1249.5	1243.2	1237.1	1241.0	1240.6	1240.2	1240.2
5°	1231.2	1218.4	1206.8	1191.8	1182.3	1170.7	1161.8	1160.7	1162.9	1155.2	1150.7
7.5°	1188.8	1171.3	1154.9	1138.3	1120.8	1106.8	1098.0	1093.9	1088.3	1083.5	1078.5
10°	1159.0	1138.6	1122.4	1101.9	1083.0	1066.4	1055.9	1048.6	1044.7	1040.9	1033.6
12.5°	1128.5	1108.3	1087.9	1064.6	1046.7	1027.4	1019.5	1011.4	1004.0	999.6	989.7
15°	1083.6	1057.5	1035.9	1011.5	991.5	972.7	961.6	945.4	943.2	937.7	927.7
17.5°	1038.7	1010.3	980.5	962.5	939.9	920.2	903.4	898.0	882.1	876.1	867.4
20°	1003.1	977.1	954.3	930.5	897.7	879.4	866.1	858.9	846.1	838.4	832.8
22.5°	972.5	946.0	919.7	891.9	864.9	844.3	834.6	823.4	816.4	805.5	799.5
25°	928.8	899.9	868.3	838.4	819.0	803.4	787.9	777.9	767.9	762.9	751.8
27.5°	878.0	847.8	818.2	795.5	771.7	756.4	742.2	733.4	721.4	713.0	706.9
30°	850.0	814.5	789.0	768.4	737.9	723.5	713.0	701.9	693.0	684.1	678.0
32.5°	817.6	785.2	761.0	735.6	712.2	696.4	682.8	673.0	665.4	657.0	650.9
35°	766.8	739.6	714.6	689.1	671.9	655.8	639.8	631.4	624.2	616.4	610.9
37.5°	720.8	695.5	671.7	647.5	626.1	613.1	600.1	593.8	584.0	578.8	573.2
40°	692.4	667.5	642.0	618.6	596.5	586.4	574.8	565.4	556.5	552.6	546.5
42.5°	661.4	636.4	614.9	589.8	571.6	558.1	547.3	537.0	530.4	524.6	521.2
45°	615.3	593.1	572.0	547.1	529.9	518.2	506.0	496.6	490.5	486.6	480.5
47.5°	570.6	548.4	527.0	505.2	488.6	475.2	463.1	456.5	448.4	443.7	439.5
50°	538.2	518.2	495.5	475.5	458.9	445.6	435.5	427.2	420.0	413.9	411.2
52.5°	508.4	487.1	467.5	448.9	431.3	416.2	407.2	398.4	393.0	386.0	382.7
55°	459.4	438.9	422.2	403.9	386.7	374.0	362.9	355.1	349.5	341.8	337.4
57.5°	413.4	394.9	375.0	359.2	341.4	330.7	321.5	311.0	304.2	298.1	293.8
60°	382.3	361.2	344.0	329.1	313.5	299.6	291.3	283.0	275.7	269.6	265.8
62.5°	349.8	331.5	315.1	298.8	284.6	272.6	262.9	255.9	249.6	245.6	241.8
65°	300.2	285.8	269.1	255.8	242.5	233.6	225.8	219.7	215.2	212.5	209.2
67.5°	254.5	240.4	225.9	212.9	204.0	197.2	192.1	186.9	184.7	181.1	178.9
70°	224.7	210.3	197.5	187.5	178.6	173.7	170.3	166.5	164.2	159.8	157.6
72.5°	192.3	181.9	172.7	164.4	157.4	152.8	148.5	143.8	140.2	135.3	133.1
75°	151.5	142.0	134.9	129.3	124.8	118.7	112.6	107.6	106.0	104.3	103.8
77.5°	112.2	106.2	101.0	96.3	90.7	86.3	85.0	83.9	83.6	82.7	82.7
80°	88.2	82.7	78.8	73.2	69.9	69.9	69.9	68.8	69.4	69.4	69.4
82.5°	65.6	60.5	58.4	56.3	55.7	56.2	56.2	56.3	56.0	56.9	56.5
85°	33.8	34.4	35.5	35.0	35.5	35.5	36.6	36.0	36.6	35.5	36.6
87.5°	14.8	16.8	17.9	19.1	20.2	20.5	21.2	21.4	22.0	22.3	22.4
90°	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4	32.5	33.6	34.4
92.5°	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7	36.4	38.2	39.1
95°	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6	43.5	45.3	46.3
97.5°	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6	45.7	47.9	49.2
100°	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5	46.7	48.9	50.1
102.5°	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8	60.1	53.3	50.2
105°	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0	123.1	75.2	51.4
107.5°	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9	383.8	348.6	313.0
110°	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8	522.9	514.0	490.1



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5	611.6	611.8	607.8
115°	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1	707.8	710.5	712.3
117.5°	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8	791.9	794.1	795.3
120°	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4	847.5	849.7	850.8
122.5°	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6	901.2	902.7	903.5
125°	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2	976.7	977.2	977.8
127.5°	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9	1053.8	1054.6	1054.8
130°	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1	1100.2	1101.3	1101.6
132.5°	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0	1144.1	1145.2	1145.3
135°	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1
137.5°	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8	1270.1	1271.4	1271.7
140°	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4	1307.4	1308.5	1308.8
142.5°	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0	1342.9	1343.7	1343.8
145°	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8	1392.4	1392.9	1393.2
147.5°	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4	1437.0	1437.5	1437.1
150°	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7	1464.3	1464.8	1464.7
152.5°	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0	1489.0	1490.0	1489.8
155°	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4	1522.7	1524.1	1524.0
157.5°	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5	1552.1	1553.7	1553.5
160°	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1	1568.6	1570.3	1570.2
162.5°	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1	1584.0	1585.8	1585.8
165°	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2	1604.4	1606.6	1606.7
167.5°	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2
170°	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0
172.5°	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5	1634.7	1636.8	1636.7
175°	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5	1641.4	1643.3	1643.2
177.5°	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1	1643.8	1645.6	1645.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1234.9	1234.4	1234.9	1233.1	1234.9	1234.4	1234.9	1240.2	1240.2	1240.6	1241.0
5°	1149.1	1148.5	1146.9	1141.8	1146.9	1148.5	1149.1	1150.7	1155.2	1162.9	1160.7
7.5°	1074.2	1073.4	1068.5	1068.6	1068.5	1073.4	1074.2	1078.5	1083.5	1088.3	1093.9
10°	1029.8	1030.3	1023.7	1019.8	1023.7	1030.3	1029.8	1033.6	1040.9	1044.7	1048.6
12.5°	986.8	984.1	978.8	974.5	978.8	984.1	986.8	989.7	999.6	1004.0	1011.4
15°	929.9	924.4	911.0	912.2	911.0	924.4	929.9	927.7	937.7	943.2	945.4
17.5°	863.0	858.9	858.7	850.9	858.7	858.9	863.0	867.4	876.1	882.1	898.0
20°	823.9	821.2	822.2	814.5	822.2	821.2	823.9	832.8	838.4	846.1	858.9
22.5°	793.3	790.5	785.9	783.4	785.9	790.5	793.3	799.5	805.5	816.4	823.4
25°	748.4	744.0	739.6	742.4	739.6	744.0	748.4	751.8	762.9	767.9	777.9
27.5°	703.7	700.3	695.9	695.3	695.9	700.3	703.7	706.9	713.0	721.4	733.4
30°	675.2	671.9	669.7	666.9	669.7	671.9	675.2	678.0	684.1	693.0	701.9
32.5°	646.4	645.7	641.7	641.2	641.7	645.7	646.4	650.9	657.0	665.4	673.0
35°	608.6	605.4	604.2	604.8	604.2	605.4	608.6	610.9	616.4	624.2	631.4
37.5°	572.8	568.3	566.4	564.4	566.4	568.3	572.8	573.2	578.8	584.0	593.8
40°	547.1	542.7	541.5	540.4	541.5	542.7	547.1	546.5	552.6	556.5	565.4
42.5°	518.2	516.4	515.8	513.8	515.8	516.4	518.2	521.2	524.6	530.4	537.0
45°	478.8	478.3	474.9	476.1	474.9	478.3	478.8	480.5	486.6	490.5	496.6
47.5°	437.3	434.9	432.5	434.1	432.5	434.9	437.3	439.5	443.7	448.4	456.5
50°	409.0	407.8	402.8	403.9	402.8	407.8	409.0	411.2	413.9	420.0	427.2
52.5°	380.5	376.3	374.4	373.7	374.4	376.3	380.5	382.7	386.0	393.0	398.4
55°	333.5	328.5	326.3	325.1	326.3	328.5	333.5	337.4	341.8	349.5	355.1
57.5°	287.3	285.9	284.2	285.4	284.2	285.9	287.3	293.8	298.1	304.2	311.0
60°	260.2	260.2	260.2	259.7	260.2	260.2	260.2	265.8	269.6	275.7	283.0
62.5°	239.4	238.0	237.6	238.4	237.6	238.0	239.4	241.8	245.6	249.6	255.9
65°	207.5	206.9	204.7	204.2	204.7	206.9	207.5	209.2	212.5	215.2	219.7
67.5°	177.4	175.5	174.8	174.0	174.8	175.5	177.4	178.9	181.1	184.7	186.9
70°	154.8	153.7	150.3	150.9	150.3	153.7	154.8	157.6	159.8	164.2	166.5
72.5°	130.4	129.3	128.6	127.8	128.6	129.3	130.4	133.1	135.3	140.2	143.8
75°	103.2	102.6	102.1	104.3	102.1	102.6	103.2	103.8	104.3	106.0	107.6
77.5°	82.7	82.7	83.0	82.1	83.0	82.7	82.7	82.7	82.7	83.6	83.9
80°	69.4	69.4	68.8	68.8	68.8	69.4	69.4	69.4	69.4	69.4	68.8
82.5°	55.6	56.0	56.3	55.5	56.3	56.0	55.6	56.5	56.9	56.0	56.3
85°	36.6	36.0	37.2	36.6	37.2	36.0	36.6	36.6	35.5	36.6	36.0
87.5°	23.4	22.7	22.7	23.3	22.7	22.7	23.4	22.4	22.3	22.0	21.4
90°	35.0	35.5	36.0	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4
92.5°	39.5	39.8	40.1	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7
95°	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6
97.5°	49.4	49.7	50.0	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6
100°	50.4	50.6	51.0	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5
102.5°	50.7	51.2	51.7	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8
105°	52.0	52.6	53.1	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0
107.5°	276.9	240.7	204.6	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9
110°	451.3	412.6	373.9	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8



TEST NUMBER: P332466-930

CATALOG NUMBER: S123RDIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	599.6	591.4	583.3	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5
115°	713.5	714.5	715.6	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1
117.5°	795.5	795.7	796.0	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8
120°	850.8	850.8	850.8	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4
122.5°	903.8	903.9	904.2	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6
125°	978.4	978.8	979.4	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2
127.5°	1054.3	1053.7	1053.1	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9
130°	1101.1	1100.5	1099.9	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1
132.5°	1144.6	1143.9	1143.0	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0
135°	1210.3	1209.5	1208.7	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5
137.5°	1271.2	1270.6	1270.1	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8
140°	1308.2	1307.7	1307.2	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4
142.5°	1343.0	1342.2	1341.5	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8
147.5°	1435.9	1434.7	1433.4	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4
150°	1463.9	1463.1	1462.2	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7
152.5°	1488.6	1487.3	1486.0	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0
155°	1522.3	1520.7	1519.1	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4
157.5°	1551.4	1549.2	1547.1	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5
160°	1568.2	1566.4	1564.5	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1
162.5°	1584.2	1582.5	1580.9	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1
165°	1604.8	1603.0	1601.0	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2
167.5°	1620.0	1617.9	1615.7	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9
170°	1628.8	1626.6	1624.5	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6
172.5°	1634.3	1632.0	1629.5	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5
175°	1641.0	1638.8	1636.6	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5
177.5°	1643.2	1641.0	1638.8	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332466-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1237.1	1243.2	1249.5	1255.2	1264.1	1268.1	1273.9	1276.1	1282.8	1292.6	1300.6
5°	1161.8	1170.7	1182.3	1191.8	1206.8	1218.4	1231.2	1243.4	1257.8	1278.3	1296.7
7.5°	1098.0	1106.8	1120.8	1138.3	1154.9	1171.3	1188.8	1205.4	1226.0	1255.5	1284.7
10°	1055.9	1066.4	1083.0	1101.9	1122.4	1138.6	1159.0	1180.1	1205.7	1239.5	1274.5
12.5°	1019.5	1027.4	1046.7	1064.6	1087.9	1108.3	1128.5	1153.1	1182.1	1218.2	1260.3
15°	961.6	972.7	991.5	1011.5	1035.9	1057.5	1083.6	1113.5	1141.8	1186.3	1237.3
17.5°	903.4	920.2	939.9	962.5	980.5	1010.3	1038.7	1069.4	1104.2	1151.3	1207.3
20°	866.1	879.4	897.7	930.5	954.3	977.1	1003.1	1041.5	1073.6	1126.9	1185.1
22.5°	834.6	844.3	864.9	891.9	919.7	946.0	972.5	1009.0	1048.7	1099.3	1162.5
25°	787.9	803.4	819.0	838.4	868.3	899.9	928.8	959.9	1002.0	1055.9	1124.1
27.5°	742.2	756.4	771.7	795.5	818.2	847.8	878.0	913.6	958.9	1015.8	1085.0
30°	713.0	723.5	737.9	768.4	789.0	814.5	850.0	881.7	923.8	984.3	1057.5
32.5°	682.8	696.4	712.2	735.6	761.0	785.2	817.6	851.9	895.0	954.6	1029.6
35°	639.8	655.8	671.9	689.1	714.6	739.6	766.8	804.5	848.3	906.0	979.8
37.5°	600.1	613.1	626.1	647.5	671.7	695.5	720.8	758.0	799.3	861.5	929.3
40°	574.8	586.4	596.5	618.6	642.0	667.5	692.4	725.2	769.6	827.9	893.3
42.5°	547.3	558.1	571.6	589.8	614.9	636.4	661.4	692.4	734.0	793.2	850.7
45°	506.0	518.2	529.9	547.1	572.0	593.1	615.3	644.7	687.5	736.3	787.3
47.5°	463.1	475.2	488.6	505.2	527.0	548.4	570.6	596.6	635.6	683.5	718.0
50°	435.5	445.6	458.9	475.5	495.5	518.2	538.2	566.5	603.6	641.4	671.3
52.5°	407.2	416.2	431.3	448.9	467.5	487.1	508.4	532.7	566.4	601.9	625.7
55°	362.9	374.0	386.7	403.9	422.2	438.9	459.4	484.4	511.0	537.6	553.8
57.5°	321.5	330.7	341.4	359.2	375.0	394.9	413.4	432.8	457.4	477.5	488.0
60°	291.3	299.6	313.5	329.1	344.0	361.2	382.3	401.7	420.5	436.7	445.0
62.5°	262.9	272.6	284.6	298.8	315.1	331.5	349.8	366.2	382.9	396.7	402.4
65°	225.8	233.6	242.5	255.8	269.1	285.8	300.2	316.8	329.1	336.8	341.8
67.5°	192.1	197.2	204.0	212.9	225.9	240.4	254.5	267.4	277.6	283.0	287.4
70°	170.3	173.7	178.6	187.5	197.5	210.3	224.7	234.2	243.0	247.4	251.9
72.5°	148.5	152.8	157.4	164.4	172.7	181.9	192.3	204.0	208.9	214.2	216.9
75°	112.6	118.7	124.8	129.3	134.9	142.0	151.5	158.7	161.4	165.9	166.5
77.5°	85.0	86.3	90.7	96.3	101.0	106.2	112.2	118.6	119.9	122.3	123.8
80°	69.9	69.9	69.9	73.2	78.8	82.7	88.2	91.6	93.8	94.3	94.9
82.5°	56.2	56.2	55.7	56.3	58.4	60.5	65.6	69.4	71.1	70.8	69.5
85°	36.6	35.5	35.5	35.0	35.5	34.4	33.8	36.0	39.4	39.4	38.3
87.5°	21.2	20.5	20.2	19.1	17.9	16.8	14.8	14.8	14.2	15.4	14.4
90°	30.3	29.3	25.8	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2
92.5°	32.9	31.2	28.5	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7
95°	39.7	37.7	34.8	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4
97.5°	41.4	39.2	58.8	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4
100°	42.4	40.2	82.5	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0
102.5°	73.5	80.2	126.4	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4
105°	219.0	266.9	291.3	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2
107.5°	454.1	489.3	485.4	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2
110°	540.8	549.7	546.7	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5



TEST NUMBER: P332466-930

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	611.3	611.1	608.1	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0
115°	702.3	699.6	697.2	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3
117.5°	787.6	785.5	784.2	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8
120°	843.2	841.0	840.2	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4
122.5°	898.1	896.6	895.5	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0
125°	975.7	975.1	974.0	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4
127.5°	1052.0	1051.2	1049.9	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5
130°	1098.0	1097.0	1095.9	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3
132.5°	1141.9	1140.8	1140.0	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2
135°	1208.7	1207.9	1206.8	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7
137.5°	1267.5	1266.2	1265.6	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2
140°	1305.3	1304.2	1303.3	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2
142.5°	1341.1	1340.3	1339.5	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3
145°	1391.2	1390.7	1390.2	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7
147.5°	1435.9	1435.3	1434.8	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3
150°	1463.1	1462.6	1462.1	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5
152.5°	1487.0	1486.0	1485.7	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9
155°	1520.0	1518.7	1518.4	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9
157.5°	1548.8	1547.2	1547.5	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7
160°	1565.5	1563.8	1564.1	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3
162.5°	1580.3	1578.4	1578.7	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8
165°	1600.1	1597.9	1598.2	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8
167.5°	1615.7	1613.6	1613.6	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4
170°	1624.5	1622.3	1622.3	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2
172.5°	1630.4	1628.2	1627.9	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0
175°	1637.6	1635.7	1635.4	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5
177.5°	1640.4	1638.7	1638.4	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332466-930

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1303.2	1308.1	1314.3	1323.6	1330.7	1336.9	1338.2	1340.0	1344.5	1352.0	1357.8
5°	1311.7	1324.4	1344.9	1364.9	1386.6	1404.3	1420.9	1432.6	1443.7	1467.0	1485.9
7.5°	1309.0	1337.4	1369.5	1405.4	1441.7	1476.8	1509.5	1538.7	1567.7	1601.7	1640.5
10°	1307.2	1340.5	1383.7	1429.8	1480.3	1529.7	1577.4	1614.6	1657.8	1696.7	1746.0
12.5°	1298.8	1346.7	1398.4	1457.3	1519.4	1576.3	1639.1	1690.4	1740.0	1796.1	1853.5
15°	1287.8	1346.1	1411.5	1489.7	1584.0	1652.9	1717.2	1806.5	1867.6	1928.6	2010.8
17.5°	1267.7	1338.8	1420.6	1522.2	1600.9	1693.4	1790.2	1860.8	1943.0	2029.0	2103.4
20°	1251.7	1334.4	1426.0	1525.8	1626.2	1726.6	1820.4	1904.8	1989.7	2089.0	2150.0
22.5°	1235.7	1317.5	1412.6	1518.7	1626.7	1732.4	1838.6	1937.6	2033.1	2133.3	2211.3
25°	1201.8	1298.9	1402.1	1510.3	1616.8	1733.3	1859.8	1970.3	2088.4	2191.6	2265.4
27.5°	1167.3	1256.4	1359.1	1468.8	1587.3	1725.0	1873.8	1999.3	2117.7	2191.6	2214.8
30°	1136.3	1230.6	1324.9	1436.5	1564.6	1718.3	1876.5	2020.1	2117.3	2149.5	2125.6
32.5°	1104.8	1190.3	1283.7	1397.8	1534.0	1701.9	1880.0	2007.8	2066.2	2041.6	1944.5
35°	1049.2	1126.3	1216.8	1331.1	1487.5	1692.8	1865.4	1951.9	1937.5	1798.8	1615.7
37.5°	989.7	1052.6	1136.3	1255.8	1439.3	1656.8	1802.3	1815.1	1690.3	1477.3	1265.8
40°	942.6	999.2	1085.2	1210.1	1402.1	1621.2	1738.9	1687.3	1493.6	1256.7	1080.3
42.5°	896.9	944.7	1027.5	1162.1	1366.6	1572.9	1644.3	1531.9	1308.6	1084.5	924.1
45°	819.5	864.5	947.6	1085.8	1293.9	1480.3	1470.9	1275.5	1052.0	871.6	738.5
47.5°	746.0	785.3	863.4	1004.4	1208.5	1341.6	1253.4	1045.5	855.9	711.2	616.2
50°	694.1	733.0	810.7	949.9	1140.2	1237.3	1111.3	911.0	737.4	617.5	542.1
52.5°	644.4	682.3	753.3	889.1	1057.6	1115.7	980.4	794.8	650.0	546.5	481.7
55°	574.8	603.6	667.5	797.3	923.2	936.5	799.5	644.2	524.9	452.7	408.4
57.5°	503.9	528.7	591.8	695.2	783.5	776.7	646.7	512.3	432.0	378.4	346.3
60°	457.7	482.2	537.6	626.4	693.0	669.7	550.4	442.2	373.4	334.0	308.5
62.5°	414.7	433.7	485.7	550.5	598.4	572.0	470.5	381.0	326.4	293.2	273.0
65°	352.3	367.9	409.4	443.3	469.9	444.4	360.1	297.9	258.5	235.2	221.4
67.5°	293.1	303.0	329.2	341.4	360.2	332.2	270.8	229.2	206.8	187.1	177.4
70°	255.8	263.0	276.9	286.8	291.9	263.0	217.5	186.9	168.1	154.3	148.1
72.5°	218.5	224.9	227.6	235.8	233.3	206.2	174.9	150.6	137.1	127.6	119.8
75°	167.0	169.7	167.0	163.7	156.5	137.6	115.9	103.8	93.8	89.4	86.6
77.5°	121.7	120.8	117.1	111.9	99.5	87.6	76.0	71.9	67.6	65.2	64.2
80°	93.8	91.6	88.2	79.9	69.4	61.1	58.3	55.5	53.8	51.0	50.5
82.5°	69.8	68.5	62.9	55.9	48.5	44.6	42.3	41.3	39.6	38.2	38.1
85°	37.2	35.5	29.4	25.5	24.4	23.3	22.7	22.7	20.5	20.0	20.0
87.5°	12.8	10.7	10.8	9.9	10.6	10.4	11.6	11.3	11.7	12.3	11.6
90°	3.9	6.6	9.4	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4
92.5°	21.9	21.1	20.4	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7
95°	63.3	52.2	41.0	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6
97.5°	144.5	139.5	134.4	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6
100°	211.4	216.8	222.3	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5
102.5°	274.3	278.2	282.0	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8
105°	366.2	369.2	372.2	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0
107.5°	463.6	465.9	468.4	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9
110°	528.7	530.8	533.0	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	590.9	592.9	594.8	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5
115°	683.0	684.6	686.2	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1
117.5°	772.8	774.8	776.8	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8
120°	828.8	831.3	833.7	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4
122.5°	884.9	887.0	888.9	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6
125°	962.6	964.8	966.9	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2
127.5°	1037.7	1039.9	1042.0	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9
130°	1084.5	1086.7	1088.8	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1
132.5°	1129.4	1131.6	1133.7	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0
135°	1197.3	1199.0	1200.6	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5
137.5°	1256.3	1258.3	1260.4	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8
140°	1294.9	1296.5	1298.1	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4
142.5°	1330.9	1332.5	1334.2	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0
145°	1381.6	1383.6	1385.4	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8
147.5°	1428.6	1429.8	1431.0	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4
150°	1457.3	1458.2	1459.0	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7
152.5°	1483.3	1483.6	1484.0	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0
155°	1519.4	1518.8	1518.3	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4
157.5°	1548.7	1548.6	1548.5	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5
160°	1565.9	1565.7	1565.5	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1
162.5°	1582.1	1581.4	1580.7	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1
165°	1602.0	1601.2	1600.4	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2
167.5°	1617.3	1616.2	1615.2	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9
170°	1626.1	1625.0	1623.9	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6
172.5°	1631.7	1630.4	1629.1	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5
175°	1639.2	1637.9	1636.6	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5
177.5°	1641.4	1640.4	1639.3	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1367.1	1367.1	1368.9	1375.6	1376.5	1382.2	1380.5
5°	1502.5	1513.0	1516.9	1533.6	1543.5	1548.0	1539.1
7.5°	1668.1	1697.8	1711.9	1729.3	1744.7	1749.4	1737.3
10°	1788.8	1819.8	1845.9	1862.1	1877.0	1887.0	1899.7
12.5°	1905.5	1943.7	1968.5	1991.2	2006.6	2019.3	2021.4
15°	2032.4	2090.1	2133.9	2166.1	2182.1	2190.5	2187.2
17.5°	2160.3	2213.8	2245.0	2277.9	2300.1	2301.3	2301.9
20°	2232.7	2284.8	2320.9	2345.3	2370.2	2369.2	2374.7
22.5°	2281.0	2322.1	2349.8	2367.5	2376.0	2371.8	2372.9
25°	2303.7	2315.9	2310.9	2282.6	2275.4	2249.3	2253.7
27.5°	2187.0	2129.2	2069.6	1992.8	1932.2	1883.7	1886.2
30°	2028.5	1926.4	1809.9	1712.2	1624.6	1600.2	1548.0
32.5°	1807.0	1653.8	1517.4	1426.4	1351.1	1330.7	1285.2
35°	1431.5	1282.8	1142.4	1058.1	1024.7	978.2	977.6
37.5°	1112.6	981.7	907.5	844.2	811.1	782.9	780.1
40°	936.0	833.9	777.9	732.4	699.7	678.6	673.6
42.5°	812.6	730.0	677.6	649.4	624.2	613.3	605.2
45°	663.6	608.1	571.4	545.9	534.3	525.9	521.5
47.5°	555.1	517.9	492.9	476.0	466.5	457.7	460.1
50°	496.0	465.5	447.2	431.1	423.9	417.8	418.3
52.5°	448.5	421.1	406.3	394.7	385.7	381.4	379.3
55°	380.6	363.4	348.5	340.1	335.1	329.1	327.3
57.5°	324.7	311.4	299.1	289.8	288.5	282.7	283.4
60°	287.4	276.3	266.4	261.3	257.5	252.4	254.1
62.5°	256.8	247.4	238.4	234.2	230.4	226.7	227.5
65°	210.3	201.4	195.8	193.6	192.0	190.3	188.7
67.5°	167.5	162.2	158.7	153.9	150.5	149.9	148.2
70°	141.0	133.7	127.6	121.5	119.8	119.3	119.8
72.5°	113.0	108.4	106.7	103.8	103.5	102.0	103.0
75°	84.9	83.2	82.1	79.9	79.9	79.9	79.9
77.5°	62.6	61.6	60.9	60.5	59.9	59.1	59.0
80°	48.8	48.3	47.1	47.1	46.6	47.1	46.6
82.5°	36.9	36.8	35.6	35.6	35.1	34.7	35.1
85°	18.8	18.3	19.4	18.3	18.8	17.8	18.8
87.5°	11.8	12.1	11.7	11.9	11.5	12.6	11.7
90°	32.5	33.6	34.4	35.0	35.5	36.0	36.5
92.5°	36.4	38.2	39.1	39.5	39.8	40.1	40.4
95°	43.5	45.3	46.3	46.3	46.3	46.3	46.3
97.5°	45.7	47.9	49.2	49.4	49.7	50.0	50.2
100°	46.7	48.9	50.1	50.4	50.6	51.0	51.2
102.5°	60.1	53.3	50.2	50.7	51.2	51.7	52.2
105°	123.1	75.2	51.4	52.0	52.6	53.1	53.6
107.5°	383.8	348.6	313.0	276.9	240.7	204.6	168.4
110°	522.9	514.0	490.1	451.3	412.6	373.9	335.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	611.6	611.8	607.8	599.6	591.4	583.3	575.0
115°	707.8	710.5	712.3	713.5	714.5	715.6	716.7
117.5°	791.9	794.1	795.3	795.5	795.7	796.0	796.1
120°	847.5	849.7	850.8	850.8	850.8	850.8	850.8
122.5°	901.2	902.7	903.5	903.8	903.9	904.2	904.4
125°	976.7	977.2	977.8	978.4	978.8	979.4	980.0
127.5°	1053.8	1054.6	1054.8	1054.3	1053.7	1053.1	1052.6
130°	1100.2	1101.3	1101.6	1101.1	1100.5	1099.9	1099.4
132.5°	1144.1	1145.2	1145.3	1144.6	1143.9	1143.0	1142.3
135°	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9
137.5°	1270.1	1271.4	1271.7	1271.2	1270.6	1270.1	1269.6
140°	1307.4	1308.5	1308.8	1308.2	1307.7	1307.2	1306.6
142.5°	1342.9	1343.7	1343.8	1343.0	1342.2	1341.5	1340.8
145°	1392.4	1392.9	1393.2	1393.2	1393.2	1393.2	1393.2
147.5°	1437.0	1437.5	1437.1	1435.9	1434.7	1433.4	1432.2
150°	1464.3	1464.8	1464.7	1463.9	1463.1	1462.2	1461.4
152.5°	1489.0	1490.0	1489.8	1488.6	1487.3	1486.0	1484.8
155°	1522.7	1524.1	1524.0	1522.3	1520.7	1519.1	1517.5
157.5°	1552.1	1553.7	1553.5	1551.4	1549.2	1547.1	1545.0
160°	1568.6	1570.3	1570.2	1568.2	1566.4	1564.5	1562.6
162.5°	1584.0	1585.8	1585.8	1584.2	1582.5	1580.9	1579.2
165°	1604.4	1606.6	1606.7	1604.8	1603.0	1601.0	1599.1
167.5°	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6
170°	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3
172.5°	1634.7	1636.8	1636.7	1634.3	1632.0	1629.5	1627.2
175°	1641.4	1643.3	1643.2	1641.0	1638.8	1636.6	1634.5
177.5°	1643.8	1645.6	1645.4	1643.2	1641.0	1638.8	1636.7
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5

(END OF REPORT)