

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: P332447-830

Luminaire Tested: **S123RDIW-S775D1535U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332447-830
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: S123RDIW-S775D1535U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1535 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.5 lumens
Efficiency: N/A
Efficacy: 115.8 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

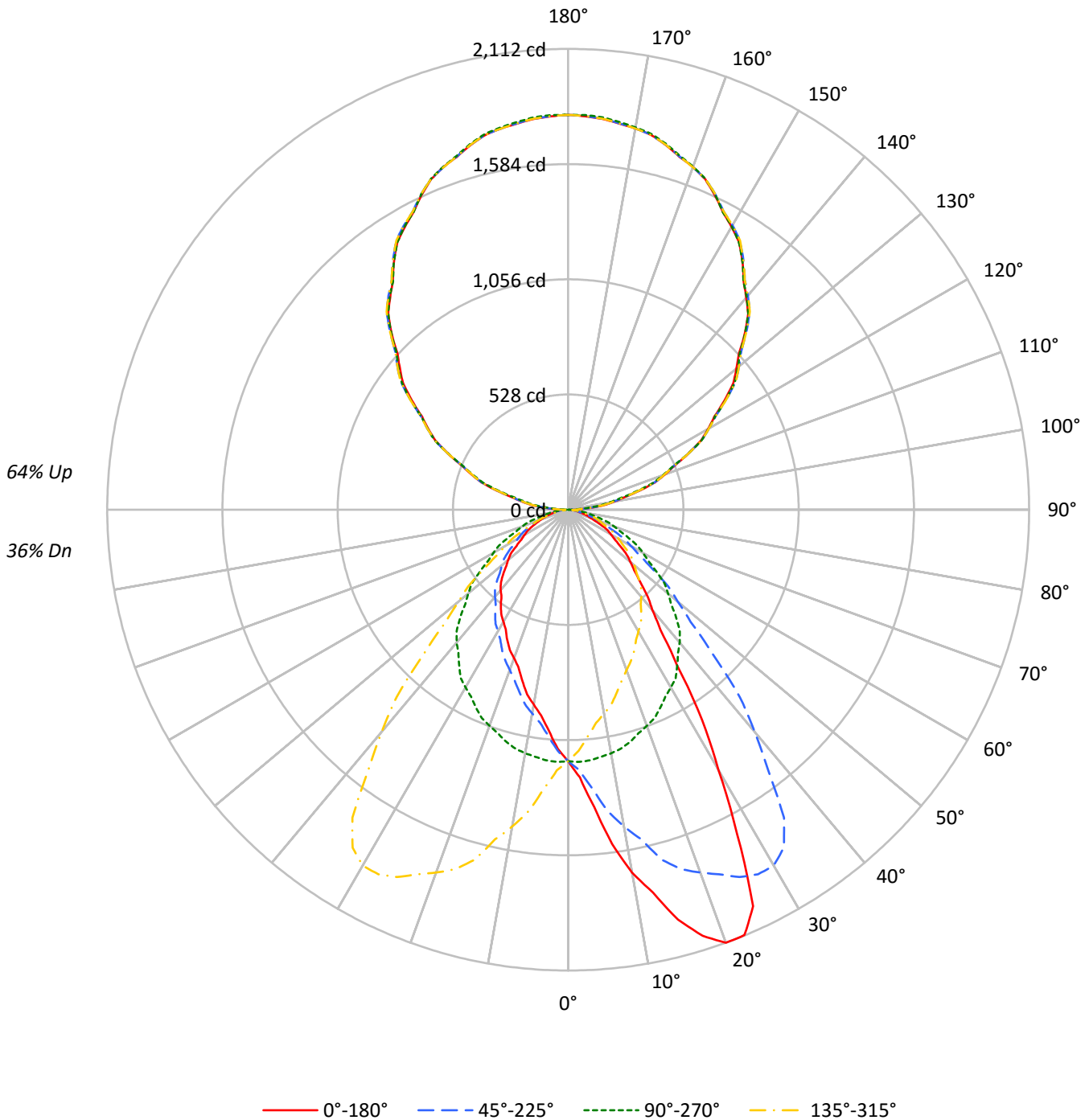
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36				
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	38	38	32				
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	32	27				
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	31	30	28	23				
4	73	63	55	50	66	57	51	46	47	42	38	37	34	31	28	26	24	20				
5	67	56	48	43	61	51	44	39	42	37	33	34	30	27	26	23	22	18				
6	62	50	43	37	56	46	39	34	38	33	29	30	27	24	23	21	19	16				
7	57	45	38	32	52	42	35	30	34	29	26	28	24	21	21	19	17	14				
8	53	41	34	29	48	38	31	27	31	26	23	25	22	19	20	17	15	13				
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12				
10	46	34	28	23	42	32	26	21	27	22	18	22	18	16	17	14	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12408	12408	12408	12408
5°	14791	12460	10974	12460
10°	18467	12389	9913	12389
15°	21677	12262	9040	12262
20°	24192	12073	8298	12073
25°	23807	11874	7842	11874
30°	17112	11691	7372	11691
35°	11426	11452	7068	11452
40°	8418	11164	6753	11164
45°	7060	10659	6445	10659
50°	6231	9999	6015	9999
55°	5465	9242	5427	9242
60°	4865	8521	4971	8521
65°	4274	7743	4625	7743
70°	3355	7050	4223	7050
75°	2957	6159	3855	6159
80°	2572	5232	3794	5232
85°	2075	4199	4026	4199



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.4
10°-20°	354.2	4.5
20°-30°	556.4	7.1
30°-40°	580.5	7.4
40°-50°	496.8	6.3
50°-60°	378.6	4.8
60°-70°	242.7	3.1
70°-80°	116.7	1.5
80°-90°	36.2	0.5
90°-100°	117.9	1.5
100°-110°	352.8	4.5
110°-120°	600.0	7.6
120°-130°	789.3	10.0
130°-140°	887.1	11.2
140°-150°	872.0	11.1
150°-160°	734.1	9.3
160°-170°	488.7	6.2
170°-180°	171.1	2.2
0°-30°	1023.9	13.0
0°-40°	1604.4	20.3
0°-60°	2479.8	31.4
0°-90°	2875.5	36.5
90°-120°	1070.7	13.6
90°-150°	3619.1	45.9
90°-180°	5013.0	63.5
0°-180°	7888.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1153	1153	1153	1153	1153	
5°	1369	1153	1016	1153	1369	141
15°	1945	1100	811	1100	1945	552
25°	2004	1000	660	1000	2004	862
35°	870	872	538	872	870	570
45°	464	700	423	700	464	365
55°	291	492	289	492	291	263
65°	168	304	182	304	168	165
75°	71	148	93	148	71	76
85°	17	34	33	34	17	20
90°	43	1	43	1	43	21
95°	111	84	111	84	111	114
105°	338	320	338	320	338	359
115°	606	604	606	604	606	599
125°	874	884	874	884	874	781
135°	1146	1147	1146	1147	1146	881
145°	1392	1392	1392	1392	1392	869
155°	1590	1593	1590	1593	1590	732
165°	1730	1735	1730	1735	1730	488
175°	1798	1805	1798	1805	1798	171
180°	1809	1809	1809	1809	1809	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1227.8	1229.4	1224.2	1223.4	1217.5	1215.9	1215.9	1207.6	1202.5	1195.8	1191.8
5°	1368.9	1376.8	1372.8	1364.0	1349.2	1345.7	1336.3	1321.5	1304.8	1284.0	1274.1
7.5°	1545.1	1555.9	1551.8	1538.0	1522.6	1510.0	1483.6	1459.0	1424.6	1394.3	1368.5
10°	1689.6	1678.3	1669.4	1656.0	1641.8	1618.5	1590.9	1552.9	1509.0	1474.5	1436.0
12.5°	1797.8	1795.9	1784.7	1770.9	1750.8	1728.7	1694.8	1648.5	1597.4	1547.6	1503.5
15°	1945.2	1948.2	1940.8	1926.5	1897.9	1858.9	1807.6	1788.3	1715.3	1661.0	1606.8
17.5°	2047.3	2046.7	2045.7	2025.9	1996.7	1969.0	1921.4	1870.8	1804.6	1728.2	1655.0
20°	2112.0	2107.1	2108.1	2085.8	2064.2	2032.1	1985.7	1912.2	1857.9	1769.6	1694.0
22.5°	2110.4	2109.5	2113.3	2105.6	2089.8	2065.3	2028.7	1966.7	1897.4	1808.3	1723.3
25°	2004.5	2000.5	2023.7	2030.1	2055.3	2059.7	2048.9	2014.9	1949.2	1857.4	1752.3
27.5°	1677.6	1675.5	1718.4	1772.4	1840.6	1893.8	1945.0	1969.8	1949.2	1883.5	1778.2
30°	1376.8	1423.1	1444.9	1522.9	1609.7	1713.4	1804.1	1890.5	1911.7	1883.1	1796.7
32.5°	1143.1	1183.6	1201.6	1268.6	1349.5	1470.9	1607.1	1729.4	1815.8	1837.7	1785.6
35°	869.5	870.0	911.4	941.0	1016.1	1140.9	1273.2	1437.0	1599.8	1723.2	1736.0
37.5°	693.8	696.3	721.3	750.8	807.1	873.2	989.6	1125.8	1313.9	1503.3	1614.3
40°	599.1	603.5	622.3	651.4	691.8	741.7	832.5	960.8	1117.7	1328.4	1500.6
42.5°	538.3	545.4	555.2	577.6	602.7	649.3	722.7	821.8	964.5	1163.8	1362.4
45°	463.8	467.8	475.2	485.6	508.3	540.8	590.2	656.8	775.2	935.7	1134.4
47.5°	409.2	407.1	414.9	423.3	438.4	460.6	493.7	548.1	632.5	761.2	929.9
50°	372.1	371.6	377.0	383.4	397.8	414.1	441.2	482.1	549.2	655.8	810.3
52.5°	337.3	339.2	343.1	351.1	361.4	374.6	398.9	428.4	486.1	578.1	706.8
55°	291.2	292.7	298.0	302.5	309.9	323.2	338.6	363.2	402.7	466.8	572.9
57.5°	252.0	251.4	256.6	257.7	266.1	276.9	288.8	307.9	336.6	384.2	455.6
60°	226.0	224.5	228.9	232.4	236.9	245.7	255.6	274.4	297.1	332.1	393.3
62.5°	202.4	201.6	204.9	208.3	212.0	220.1	228.4	242.8	260.7	290.3	338.8
65°	167.8	169.3	170.7	172.2	174.2	179.1	187.0	196.9	209.2	230.0	264.9
67.5°	131.9	133.4	133.8	136.9	141.1	144.2	149.0	157.8	166.4	183.9	203.8
70°	106.6	106.1	106.6	108.1	113.5	118.9	125.4	131.8	137.1	149.5	166.3
72.5°	91.6	90.7	92.0	92.3	94.9	96.4	100.5	106.5	113.5	121.9	133.9
75°	71.1	71.1	71.1	71.1	73.0	74.0	75.5	77.0	79.5	83.4	92.3
77.5°	52.5	52.6	53.3	53.8	54.2	54.8	55.7	57.1	58.1	60.1	64.0
80°	41.5	41.9	41.5	41.9	41.9	42.9	43.5	44.9	45.4	47.9	49.4
82.5°	31.2	30.9	31.2	31.7	31.7	32.7	32.8	33.8	33.9	35.3	36.8
85°	16.8	15.8	16.8	16.3	17.2	16.3	16.8	17.7	17.7	18.3	20.3
87.5°	12.4	13.1	12.3	12.5	12.3	12.5	12.3	12.1	12.6	12.0	11.5
90°	42.6	42.0	41.4	40.7	40.2	39.2	37.9	36.7	35.3	34.1	30.0
92.5°	57.4	57.8	58.2	58.5	58.9	58.6	57.6	56.6	55.6	54.6	52.2
95°	110.8	110.8	110.8	110.8	110.8	110.2	109.0	107.7	106.4	105.2	102.6
97.5°	170.6	170.7	170.8	171.0	171.1	170.4	168.9	167.5	166.1	164.6	162.8
100°	216.0	215.4	214.8	214.1	213.5	212.7	211.8	210.8	209.9	209.0	207.4
102.5°	262.7	262.8	262.9	263.1	263.2	262.8	261.8	260.9	260.0	258.9	256.8
105°	338.3	337.6	337.1	336.4	335.7	335.5	335.5	335.5	335.5	335.5	332.6
107.5°	417.0	417.4	417.7	418.1	418.5	418.2	417.2	416.2	415.2	414.2	413.0
110°	470.4	471.1	471.7	472.3	473.0	472.7	471.4	470.1	468.9	467.6	466.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	527.3	527.4	527.5	527.7	527.8	527.1	525.6	524.1	522.5	521.0	520.9
115°	605.5	605.8	606.1	606.4	606.7	606.7	606.4	606.1	605.8	605.5	606.1
117.5°	684.8	685.7	686.5	687.4	688.3	688.8	688.9	688.9	689.0	689.1	689.8
120°	740.5	741.1	741.8	742.4	743.0	743.5	743.9	744.1	744.4	744.8	746.3
122.5°	793.9	794.8	795.7	796.6	797.5	798.3	799.2	799.9	800.8	801.6	802.5
125°	874.1	875.3	876.7	877.9	879.1	880.4	881.7	883.0	884.2	885.5	886.1
127.5°	953.9	955.5	956.9	958.4	959.8	961.4	963.2	965.0	966.7	968.5	969.2
130°	1006.3	1008.5	1010.7	1013.0	1015.1	1016.9	1018.1	1019.4	1020.7	1021.9	1022.8
132.5°	1060.8	1062.5	1064.3	1066.0	1067.7	1069.3	1070.8	1072.3	1073.8	1075.3	1076.0
135°	1145.6	1146.2	1146.8	1147.5	1148.1	1149.1	1150.3	1151.6	1152.8	1154.1	1154.4
137.5°	1220.3	1221.5	1222.8	1223.9	1225.1	1226.4	1227.8	1229.1	1230.4	1231.7	1230.9
140°	1269.2	1271.4	1273.7	1275.8	1278.1	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3
142.5°	1319.3	1321.0	1322.7	1324.4	1326.1	1327.1	1327.4	1327.8	1328.0	1328.3	1327.8
145°	1391.5	1392.7	1394.0	1395.2	1396.5	1397.3	1397.6	1397.9	1398.3	1398.5	1397.6
147.5°	1455.7	1457.5	1459.5	1461.4	1463.3	1464.2	1464.2	1464.2	1464.2	1464.2	1463.3
150°	1496.7	1498.5	1500.4	1502.3	1504.2	1505.1	1505.1	1505.1	1505.1	1505.1	1504.5
152.5°	1536.4	1538.0	1539.7	1541.3	1543.0	1543.6	1543.0	1542.6	1542.1	1541.5	1541.2
155°	1590.4	1592.6	1594.9	1597.0	1599.3	1599.8	1598.5	1597.2	1596.0	1594.7	1594.4
157.5°	1639.6	1641.3	1643.1	1644.9	1646.7	1646.9	1645.6	1644.3	1642.9	1641.6	1641.3
160°	1671.4	1672.7	1674.0	1675.3	1676.5	1676.3	1674.8	1673.2	1671.6	1670.0	1670.0
162.5°	1695.4	1697.3	1699.4	1701.4	1703.5	1703.6	1702.0	1700.4	1698.9	1697.3	1697.0
165°	1729.8	1731.9	1734.2	1736.4	1738.6	1738.7	1736.8	1734.9	1733.1	1731.2	1731.2
167.5°	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8	1764.9	1762.9	1761.0	1759.0	1758.8
170°	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6	1780.5	1778.2	1776.0	1773.8	1773.8
172.5°	1785.2	1787.3	1789.6	1791.8	1794.0	1794.1	1792.2	1790.2	1788.3	1786.3	1786.3
175°	1798.0	1800.2	1802.3	1804.6	1806.8	1806.9	1805.1	1803.2	1801.3	1799.4	1799.4
177.5°	1804.8	1806.6	1808.3	1810.1	1811.8	1811.9	1810.4	1808.9	1807.4	1805.9	1805.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1190.2	1189.0	1183.6	1177.2	1168.9	1163.4	1159.0	1156.7	1149.6	1140.9	1135.0
5°	1263.8	1249.0	1233.2	1213.9	1196.2	1177.9	1166.6	1153.2	1137.0	1118.7	1105.9
7.5°	1342.6	1313.5	1282.2	1250.0	1218.0	1189.5	1164.2	1142.6	1116.6	1090.4	1072.1
10°	1403.0	1360.5	1316.5	1271.7	1230.7	1192.2	1162.6	1133.5	1102.4	1072.3	1049.6
12.5°	1457.8	1401.9	1351.3	1296.2	1243.8	1197.8	1155.1	1120.9	1083.5	1051.4	1025.5
15°	1527.3	1470.1	1408.8	1324.9	1255.4	1197.1	1145.4	1100.4	1055.1	1015.6	990.4
17.5°	1592.2	1506.1	1423.9	1353.9	1263.5	1190.7	1127.5	1073.7	1024.0	982.1	951.1
20°	1619.1	1535.7	1446.3	1357.1	1268.2	1186.8	1113.2	1054.0	1002.2	954.9	926.2
22.5°	1635.2	1540.8	1446.7	1350.8	1256.4	1171.8	1099.1	1033.9	977.8	932.7	897.4
25°	1654.1	1541.6	1437.9	1343.2	1247.0	1155.2	1068.8	999.8	939.1	891.2	853.7
27.5°	1666.5	1534.2	1411.7	1306.4	1208.8	1117.4	1038.2	965.1	903.4	852.8	812.6
30°	1668.9	1528.2	1391.6	1277.6	1178.4	1094.5	1010.6	940.6	875.4	821.6	784.1
32.5°	1672.1	1513.6	1364.3	1243.2	1141.7	1058.6	982.6	915.7	848.9	796.0	757.7
35°	1659.1	1505.6	1323.0	1183.8	1082.1	1001.7	933.1	871.5	805.9	754.5	715.5
37.5°	1603.0	1473.5	1280.2	1116.9	1010.6	936.1	880.2	826.4	766.3	710.9	674.2
40°	1546.5	1441.9	1247.0	1076.3	965.3	888.7	838.4	794.5	736.2	684.5	645.0
42.5°	1462.4	1398.9	1215.4	1033.6	913.9	840.2	797.8	756.6	705.5	652.9	615.8
45°	1308.2	1316.5	1150.8	965.7	842.8	768.8	728.9	700.2	654.9	611.4	573.4
47.5°	1114.7	1193.2	1074.9	893.3	767.9	698.4	663.5	638.6	607.9	565.3	530.7
50°	988.4	1100.4	1014.1	844.8	721.0	651.9	617.4	597.1	570.4	536.9	503.8
52.5°	871.9	992.3	940.7	790.7	670.1	606.9	573.2	556.5	535.3	503.7	473.8
55°	711.1	833.0	821.1	709.1	593.6	536.9	511.2	492.5	478.2	454.5	430.8
57.5°	575.2	690.8	696.9	618.3	526.3	470.2	448.2	434.0	424.7	406.8	384.9
60°	489.6	595.6	616.3	557.1	478.2	428.9	407.1	395.8	388.3	374.1	357.3
62.5°	418.5	508.8	532.3	489.7	432.0	385.8	368.8	357.9	352.8	340.4	325.6
65°	320.3	395.3	417.9	394.3	364.2	327.2	313.4	304.0	299.5	292.7	281.7
67.5°	240.8	295.5	320.4	303.7	292.8	269.5	260.6	255.6	251.7	246.9	237.9
70°	193.4	233.9	259.6	255.1	246.3	233.9	227.5	224.0	220.1	216.1	208.2
72.5°	155.5	183.4	207.5	209.7	202.5	199.9	194.4	192.8	190.5	185.8	181.4
75°	103.1	122.3	139.1	145.5	148.5	151.0	148.5	148.1	147.5	143.6	141.1
77.5°	67.6	77.9	88.5	99.4	104.2	107.4	108.3	110.1	108.8	106.7	105.5
80°	51.8	54.3	61.6	71.1	78.4	81.4	83.4	84.4	83.9	83.4	81.4
82.5°	37.6	39.7	43.2	49.8	56.0	60.9	62.1	61.9	63.0	63.2	61.6
85°	20.3	20.7	21.7	22.7	26.1	31.6	33.1	34.0	35.1	35.1	32.0
87.5°	11.5	10.3	10.3	9.5	10.1	9.8	11.6	12.9	13.9	13.0	13.7
90°	25.9	21.8	17.7	14.0	10.9	7.7	4.6	1.4	4.6	7.7	10.9
92.5°	49.9	47.6	45.2	43.0	40.8	38.6	36.6	34.4	36.6	38.6	40.8
95°	100.1	97.6	95.1	92.7	90.5	88.3	86.1	83.9	86.1	88.3	90.5
97.5°	160.9	159.1	157.2	155.5	153.9	152.2	150.6	148.9	150.6	152.2	153.9
100°	205.8	204.2	202.6	200.9	199.0	197.1	195.2	193.3	195.2	197.1	199.0
102.5°	254.8	252.7	250.6	249.0	247.9	246.8	245.6	244.5	245.6	246.8	247.9
105°	329.7	326.9	324.0	322.3	321.7	321.0	320.5	319.8	320.5	321.0	321.7
107.5°	411.9	410.8	409.6	408.9	408.5	408.1	407.7	407.4	407.7	408.1	408.5
110°	466.4	465.7	465.1	464.5	463.8	463.2	462.6	461.9	462.6	463.2	463.8



TEST NUMBER: P332447-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	520.8	520.7	520.6	520.3	519.9	519.5	519.2	518.8	519.2	519.5	519.9
115°	606.7	607.4	608.0	607.8	606.9	606.0	605.0	604.1	605.0	606.0	606.9
117.5°	690.7	691.5	692.3	692.4	691.8	691.2	690.5	689.9	690.5	691.2	691.8
120°	747.9	749.5	751.1	750.9	749.0	747.2	745.3	743.4	745.3	747.2	749.0
122.5°	803.2	804.1	804.9	804.6	803.2	801.8	800.4	799.1	800.4	801.8	803.2
125°	886.7	887.4	888.0	887.9	886.9	886.0	885.0	884.0	885.0	886.0	886.9
127.5°	969.9	970.5	971.3	970.6	968.6	966.6	964.5	962.5	964.5	966.6	968.6
130°	1023.8	1024.7	1025.7	1024.9	1022.4	1019.8	1017.4	1014.8	1017.4	1019.8	1022.4
132.5°	1076.8	1077.4	1078.2	1077.2	1074.7	1072.1	1069.6	1067.1	1069.6	1072.1	1074.7
135°	1154.7	1155.1	1155.4	1154.6	1152.6	1150.8	1148.9	1147.0	1148.9	1150.8	1152.6
137.5°	1230.0	1229.3	1228.4	1227.2	1225.7	1224.1	1222.5	1220.9	1222.5	1224.1	1225.7
140°	1280.0	1279.7	1279.3	1278.4	1276.8	1275.3	1273.7	1272.1	1273.7	1275.3	1276.8
142.5°	1327.2	1326.6	1326.1	1325.0	1323.4	1321.8	1320.2	1318.7	1320.2	1321.8	1323.4
145°	1396.7	1395.7	1394.8	1394.0	1393.4	1392.7	1392.1	1391.5	1392.1	1392.7	1393.4
147.5°	1462.4	1461.6	1460.7	1459.7	1458.6	1457.4	1456.2	1455.1	1456.2	1457.4	1458.6
150°	1503.9	1503.3	1502.6	1502.0	1501.4	1500.7	1500.2	1499.5	1500.2	1500.7	1501.4
152.5°	1540.8	1540.4	1540.0	1539.4	1538.5	1537.7	1536.7	1535.9	1536.7	1537.7	1538.5
155°	1594.0	1593.7	1593.5	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3	1593.3
157.5°	1641.1	1640.9	1640.6	1640.7	1641.1	1641.4	1641.8	1642.2	1641.8	1641.4	1641.1
160°	1670.0	1670.0	1670.0	1670.4	1670.9	1671.6	1672.3	1672.9	1672.3	1671.6	1670.9
162.5°	1696.9	1696.6	1696.3	1696.7	1697.5	1698.4	1699.3	1700.2	1699.3	1698.4	1697.5
165°	1731.2	1731.2	1731.2	1731.6	1732.6	1733.5	1734.5	1735.4	1734.5	1733.5	1732.6
167.5°	1758.5	1758.2	1758.0	1758.5	1759.7	1761.0	1762.3	1763.6	1762.3	1761.0	1759.7
170°	1773.8	1773.8	1773.8	1774.4	1775.7	1777.0	1778.2	1779.4	1778.2	1777.0	1775.7
172.5°	1786.3	1786.3	1786.3	1787.0	1788.2	1789.4	1790.7	1792.0	1790.7	1789.4	1788.2
175°	1799.4	1799.4	1799.4	1800.0	1801.3	1802.5	1803.8	1805.1	1803.8	1802.5	1801.3
177.5°	1805.9	1805.9	1805.9	1806.4	1807.4	1808.5	1809.5	1810.4	1809.5	1808.5	1807.4
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



TEST NUMBER: P332447-830

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1133.0	1127.8	1124.4	1116.4	1111.3	1105.8	1100.2	1103.8	1103.4	1103.0	1103.0
5°	1095.0	1083.6	1073.3	1060.0	1051.6	1041.2	1033.3	1032.4	1034.3	1027.4	1023.4
7.5°	1057.3	1041.8	1027.1	1012.4	996.8	984.4	976.6	972.9	967.9	963.7	959.2
10°	1030.9	1012.6	998.2	980.1	963.3	948.5	939.1	932.6	929.2	925.8	919.4
12.5°	1003.6	985.7	967.5	946.9	930.9	913.7	906.7	899.5	892.9	889.0	880.2
15°	963.7	940.6	921.3	899.6	881.8	865.1	855.2	840.8	838.9	834.0	825.1
17.5°	923.8	898.6	872.0	856.0	835.9	818.5	803.4	798.6	784.5	779.2	771.5
20°	892.2	869.0	848.8	827.6	798.4	782.1	770.3	763.9	752.5	745.6	740.6
22.5°	865.0	841.4	817.9	793.2	769.2	750.9	742.3	732.3	726.1	716.4	711.1
25°	826.0	800.4	772.3	745.6	728.4	714.5	700.7	691.8	683.0	678.5	668.6
27.5°	780.9	754.0	727.7	707.6	686.4	672.7	660.2	652.2	641.6	634.1	628.7
30°	756.0	724.4	701.7	683.4	656.3	643.5	634.1	624.2	616.3	608.4	603.0
32.5°	727.2	698.3	676.8	654.2	633.4	619.4	607.3	598.6	591.8	584.4	578.9
35°	681.9	657.8	635.6	612.8	597.6	583.2	569.0	561.6	555.2	548.3	543.3
37.5°	641.1	618.5	597.4	575.9	556.9	545.3	533.8	528.1	519.4	514.8	509.7
40°	615.9	593.6	570.9	550.3	530.5	521.6	511.2	502.8	494.9	491.5	486.1
42.5°	588.2	566.0	546.9	524.5	508.4	496.3	486.7	477.6	471.6	466.7	463.5
45°	547.2	527.5	508.8	486.5	471.3	460.9	450.1	441.7	436.2	432.8	427.3
47.5°	507.5	487.8	468.7	449.3	434.5	422.7	411.9	406.0	398.8	394.5	391.0
50°	478.6	460.9	440.6	422.9	408.1	396.2	387.4	379.9	373.5	368.2	365.7
52.5°	452.2	433.3	415.8	399.3	383.6	370.2	362.1	354.3	349.5	343.3	340.4
55°	408.6	390.3	375.5	359.2	343.9	332.6	322.7	315.8	310.9	304.0	300.0
57.5°	367.6	351.3	333.6	319.4	303.7	294.1	285.9	276.5	270.5	265.1	261.3
60°	340.0	321.2	305.9	292.7	278.8	266.5	259.1	251.7	245.2	239.8	236.4
62.5°	311.2	294.8	280.3	265.8	253.2	242.4	233.8	227.6	222.0	218.5	215.1
65°	266.9	254.1	239.3	227.5	215.7	207.7	200.9	195.4	191.4	189.0	186.1
67.5°	226.3	213.9	201.0	189.3	181.4	175.4	170.9	166.2	164.2	161.1	159.1
70°	199.8	187.0	175.7	166.8	158.9	154.5	151.5	148.1	146.1	142.1	140.2
72.5°	171.1	161.7	153.5	146.3	140.0	135.9	132.1	127.9	124.8	120.4	118.5
75°	134.7	126.3	119.9	115.0	111.0	105.6	100.2	95.8	94.3	92.7	92.3
77.5°	99.8	94.4	89.8	85.7	80.8	76.8	75.6	74.6	74.3	73.5	73.5
80°	78.4	73.5	70.0	65.1	62.2	62.2	62.2	61.2	61.6	61.6	61.6
82.5°	58.3	53.8	51.9	50.1	49.6	50.0	50.0	50.1	49.9	50.6	50.2
85°	30.1	30.6	31.6	31.1	31.6	31.6	32.6	32.0	32.6	31.6	32.6
87.5°	13.9	15.7	17.0	18.2	19.4	19.9	20.5	20.7	21.4	21.7	21.9
90°	14.0	17.7	21.8	25.9	30.0	34.1	35.3	36.7	37.9	39.2	40.2
92.5°	43.0	45.2	47.6	49.9	52.2	54.6	55.6	56.6	57.6	58.6	58.9
95°	92.7	95.1	97.6	100.1	102.6	105.2	106.4	107.7	109.0	110.2	110.8
97.5°	155.5	157.2	159.1	160.9	162.8	164.6	166.1	167.5	168.9	170.4	171.1
100°	200.9	202.6	204.2	205.8	207.4	209.0	209.9	210.8	211.8	212.7	213.5
102.5°	249.0	250.6	252.7	254.8	256.8	258.9	260.0	260.9	261.8	262.8	263.2
105°	322.3	324.0	326.9	329.7	332.6	335.5	335.5	335.5	335.5	335.5	335.7
107.5°	408.9	409.6	410.8	411.9	413.0	414.2	415.2	416.2	417.2	418.2	418.5
110°	464.5	465.1	465.7	466.4	466.9	467.6	468.9	470.1	471.4	472.7	473.0



TEST NUMBER: P332447-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	520.3	520.6	520.7	520.8	520.9	521.0	522.5	524.1	525.6	527.1	527.8
115°	607.8	608.0	607.4	606.7	606.1	605.5	605.8	606.1	606.4	606.7	606.7
117.5°	692.4	692.3	691.5	690.7	689.8	689.1	689.0	688.9	688.9	688.8	688.3
120°	750.9	751.1	749.5	747.9	746.3	744.8	744.4	744.1	743.9	743.5	743.0
122.5°	804.6	804.9	804.1	803.2	802.5	801.6	800.8	799.9	799.2	798.3	797.5
125°	887.9	888.0	887.4	886.7	886.1	885.5	884.2	883.0	881.7	880.4	879.1
127.5°	970.6	971.3	970.5	969.9	969.2	968.5	966.7	965.0	963.2	961.4	959.8
130°	1024.9	1025.7	1024.7	1023.8	1022.8	1021.9	1020.7	1019.4	1018.1	1016.9	1015.1
132.5°	1077.2	1078.2	1077.4	1076.8	1076.0	1075.3	1073.8	1072.3	1070.8	1069.3	1067.7
135°	1154.6	1155.4	1155.1	1154.7	1154.4	1154.1	1152.8	1151.6	1150.3	1149.1	1148.1
137.5°	1227.2	1228.4	1229.3	1230.0	1230.9	1231.7	1230.4	1229.1	1227.8	1226.4	1225.1
140°	1278.4	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3	1280.0	1279.7	1279.3	1278.1
142.5°	1325.0	1326.1	1326.6	1327.2	1327.8	1328.3	1328.0	1327.8	1327.4	1327.1	1326.1
145°	1394.0	1394.8	1395.7	1396.7	1397.6	1398.5	1398.3	1397.9	1397.6	1397.3	1396.5
147.5°	1459.7	1460.7	1461.6	1462.4	1463.3	1464.2	1464.2	1464.2	1464.2	1464.2	1463.3
150°	1502.0	1502.6	1503.3	1503.9	1504.5	1505.1	1505.1	1505.1	1505.1	1505.1	1504.2
152.5°	1539.4	1540.0	1540.4	1540.8	1541.2	1541.5	1542.1	1542.6	1543.0	1543.6	1543.0
155°	1593.3	1593.5	1593.7	1594.0	1594.4	1594.7	1596.0	1597.2	1598.5	1599.8	1599.3
157.5°	1640.7	1640.6	1640.9	1641.1	1641.3	1641.6	1642.9	1644.3	1645.6	1646.9	1646.7
160°	1670.4	1670.0	1670.0	1670.0	1670.0	1670.0	1671.6	1673.2	1674.8	1676.3	1676.5
162.5°	1696.7	1696.3	1696.6	1696.9	1697.0	1697.3	1698.9	1700.4	1702.0	1703.6	1703.5
165°	1731.6	1731.2	1731.2	1731.2	1731.2	1731.2	1733.1	1734.9	1736.8	1738.7	1738.6
167.5°	1758.5	1758.0	1758.2	1758.5	1758.8	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8
170°	1774.4	1773.8	1773.8	1773.8	1773.8	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6
172.5°	1787.0	1786.3	1786.3	1786.3	1786.3	1786.3	1788.3	1790.2	1792.2	1794.1	1794.0
175°	1800.0	1799.4	1799.4	1799.4	1799.4	1799.4	1801.3	1803.2	1805.1	1806.9	1806.8
177.5°	1806.4	1805.9	1805.9	1805.9	1805.9	1805.9	1807.4	1808.9	1810.4	1811.9	1811.8
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



TEST NUMBER: P332447-830

CATALOG NUMBER: S123RDIW-S775D1535U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1098.3	1097.9	1098.3	1096.6	1098.3	1097.9	1098.3	1103.0	1103.0	1103.4	1103.8
5°	1022.0	1021.4	1020.0	1015.6	1020.0	1021.4	1022.0	1023.4	1027.4	1034.3	1032.4
7.5°	955.4	954.7	950.4	950.5	950.4	954.7	955.4	959.2	963.7	967.9	972.9
10°	915.9	916.3	910.5	907.0	910.5	916.3	915.9	919.4	925.8	929.2	932.6
12.5°	877.6	875.3	870.5	866.8	870.5	875.3	877.6	880.2	889.0	892.9	899.5
15°	827.1	822.1	810.3	811.2	810.3	822.1	827.1	825.1	834.0	838.9	840.8
17.5°	767.5	763.9	763.6	756.8	763.6	763.9	767.5	771.5	779.2	784.5	798.6
20°	732.8	730.4	731.3	724.4	731.3	730.4	732.8	740.6	745.6	752.5	763.9
22.5°	705.6	703.1	699.0	696.8	699.0	703.1	705.6	711.1	716.4	726.1	732.3
25°	665.7	661.8	657.8	660.3	657.8	661.8	665.7	668.6	678.5	683.0	691.8
27.5°	625.8	622.8	618.9	618.4	618.9	622.8	625.8	628.7	634.1	641.6	652.2
30°	600.6	597.6	595.6	593.1	595.6	597.6	600.6	603.0	608.4	616.3	624.2
32.5°	574.9	574.3	570.7	570.2	570.7	574.3	574.9	578.9	584.4	591.8	598.6
35°	541.3	538.4	537.3	537.9	537.3	538.4	541.3	543.3	548.3	555.2	561.6
37.5°	509.4	505.5	503.7	502.0	503.7	505.5	509.4	509.7	514.8	519.4	528.1
40°	486.5	482.6	481.6	480.6	481.6	482.6	486.5	486.1	491.5	494.9	502.8
42.5°	460.9	459.3	458.7	456.9	458.7	459.3	460.9	463.5	466.7	471.6	477.6
45°	425.8	425.4	422.4	423.4	422.4	425.4	425.8	427.3	432.8	436.2	441.7
47.5°	389.0	386.8	384.7	386.1	384.7	386.8	389.0	391.0	394.5	398.8	406.0
50°	363.7	362.7	358.3	359.2	358.3	362.7	363.7	365.7	368.2	373.5	379.9
52.5°	338.5	334.7	333.0	332.4	333.0	334.7	338.5	340.4	343.3	349.5	354.3
55°	296.6	292.1	290.1	289.2	290.1	292.1	296.6	300.0	304.0	310.9	315.8
57.5°	255.5	254.3	252.8	253.8	252.8	254.3	255.5	261.3	265.1	270.5	276.5
60°	231.4	231.4	231.4	230.9	231.4	231.4	231.4	236.4	239.8	245.2	251.7
62.5°	212.9	211.7	211.3	212.0	211.3	211.7	212.9	215.1	218.5	222.0	227.6
65°	184.5	184.1	182.1	181.6	182.1	184.1	184.5	186.1	189.0	191.4	195.4
67.5°	157.8	156.0	155.4	154.8	155.4	156.0	157.8	159.1	161.1	164.2	166.2
70°	137.7	136.7	133.7	134.2	133.7	136.7	137.7	140.2	142.1	146.1	148.1
72.5°	115.9	115.0	114.4	113.7	114.4	115.0	115.9	118.5	120.4	124.8	127.9
75°	91.8	91.3	90.8	92.7	90.8	91.3	91.8	92.3	92.7	94.3	95.8
77.5°	73.5	73.5	73.8	73.0	73.8	73.5	73.5	73.5	73.5	74.3	74.6
80°	61.6	61.6	61.2	61.2	61.2	61.6	61.6	61.6	61.6	61.6	61.2
82.5°	49.5	49.9	50.1	49.4	50.1	49.9	49.5	50.2	50.6	49.9	50.1
85°	32.6	32.0	33.1	32.6	33.1	32.0	32.6	32.6	31.6	32.6	32.0
87.5°	22.7	22.1	22.2	22.7	22.2	22.1	22.7	21.9	21.7	21.4	20.7
90°	40.7	41.4	42.0	42.6	42.0	41.4	40.7	40.2	39.2	37.9	36.7
92.5°	58.5	58.2	57.8	57.4	57.8	58.2	58.5	58.9	58.6	57.6	56.6
95°	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.8	110.2	109.0	107.7
97.5°	171.0	170.8	170.7	170.6	170.7	170.8	171.0	171.1	170.4	168.9	167.5
100°	214.1	214.8	215.4	216.0	215.4	214.8	214.1	213.5	212.7	211.8	210.8
102.5°	263.1	262.9	262.8	262.7	262.8	262.9	263.1	263.2	262.8	261.8	260.9
105°	336.4	337.1	337.6	338.3	337.6	337.1	336.4	335.7	335.5	335.5	335.5
107.5°	418.1	417.7	417.4	417.0	417.4	417.7	418.1	418.5	418.2	417.2	416.2
110°	472.3	471.7	471.1	470.4	471.1	471.7	472.3	473.0	472.7	471.4	470.1



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	527.7	527.5	527.4	527.3	527.4	527.5	527.7	527.8	527.1	525.6	524.1
115°	606.4	606.1	605.8	605.5	605.8	606.1	606.4	606.7	606.7	606.4	606.1
117.5°	687.4	686.5	685.7	684.8	685.7	686.5	687.4	688.3	688.8	688.9	688.9
120°	742.4	741.8	741.1	740.5	741.1	741.8	742.4	743.0	743.5	743.9	744.1
122.5°	796.6	795.7	794.8	793.9	794.8	795.7	796.6	797.5	798.3	799.2	799.9
125°	877.9	876.7	875.3	874.1	875.3	876.7	877.9	879.1	880.4	881.7	883.0
127.5°	958.4	956.9	955.5	953.9	955.5	956.9	958.4	959.8	961.4	963.2	965.0
130°	1013.0	1010.7	1008.5	1006.3	1008.5	1010.7	1013.0	1015.1	1016.9	1018.1	1019.4
132.5°	1066.0	1064.3	1062.5	1060.8	1062.5	1064.3	1066.0	1067.7	1069.3	1070.8	1072.3
135°	1147.5	1146.8	1146.2	1145.6	1146.2	1146.8	1147.5	1148.1	1149.1	1150.3	1151.6
137.5°	1223.9	1222.8	1221.5	1220.3	1221.5	1222.8	1223.9	1225.1	1226.4	1227.8	1229.1
140°	1275.8	1273.7	1271.4	1269.2	1271.4	1273.7	1275.8	1278.1	1279.3	1279.7	1280.0
142.5°	1324.4	1322.7	1321.0	1319.3	1321.0	1322.7	1324.4	1326.1	1327.1	1327.4	1327.8
145°	1395.2	1394.0	1392.7	1391.5	1392.7	1394.0	1395.2	1396.5	1397.3	1397.6	1397.9
147.5°	1461.4	1459.5	1457.5	1455.7	1457.5	1459.5	1461.4	1463.3	1464.2	1464.2	1464.2
150°	1502.3	1500.4	1498.5	1496.7	1498.5	1500.4	1502.3	1504.2	1505.1	1505.1	1505.1
152.5°	1541.3	1539.7	1538.0	1536.4	1538.0	1539.7	1541.3	1543.0	1543.6	1543.0	1542.6
155°	1597.0	1594.9	1592.6	1590.4	1592.6	1594.9	1597.0	1599.3	1599.8	1598.5	1597.2
157.5°	1644.9	1643.1	1641.3	1639.6	1641.3	1643.1	1644.9	1646.7	1646.9	1645.6	1644.3
160°	1675.3	1674.0	1672.7	1671.4	1672.7	1674.0	1675.3	1676.5	1676.3	1674.8	1673.2
162.5°	1701.4	1699.4	1697.3	1695.4	1697.3	1699.4	1701.4	1703.5	1703.6	1702.0	1700.4
165°	1736.4	1734.2	1731.9	1729.8	1731.9	1734.2	1736.4	1738.6	1738.7	1736.8	1734.9
167.5°	1764.9	1762.9	1761.0	1759.0	1761.0	1762.9	1764.9	1766.8	1766.8	1764.9	1762.9
170°	1780.5	1778.2	1776.0	1773.8	1776.0	1778.2	1780.5	1782.6	1782.6	1780.5	1778.2
172.5°	1791.8	1789.6	1787.3	1785.2	1787.3	1789.6	1791.8	1794.0	1794.1	1792.2	1790.2
175°	1804.6	1802.3	1800.2	1798.0	1800.2	1802.3	1804.6	1806.8	1806.9	1805.1	1803.2
177.5°	1810.1	1808.3	1806.6	1804.8	1806.6	1808.3	1810.1	1811.8	1811.9	1810.4	1808.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



TEST NUMBER: P332447-830

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1100.2	1105.8	1111.3	1116.4	1124.4	1127.8	1133.0	1135.0	1140.9	1149.6	1156.7
5°	1033.3	1041.2	1051.6	1060.0	1073.3	1083.6	1095.0	1105.9	1118.7	1137.0	1153.2
7.5°	976.6	984.4	996.8	1012.4	1027.1	1041.8	1057.3	1072.1	1090.4	1116.6	1142.6
10°	939.1	948.5	963.3	980.1	998.2	1012.6	1030.9	1049.6	1072.3	1102.4	1133.5
12.5°	906.7	913.7	930.9	946.9	967.5	985.7	1003.6	1025.5	1051.4	1083.5	1120.9
15°	855.2	865.1	881.8	899.6	921.3	940.6	963.7	990.4	1015.6	1055.1	1100.4
17.5°	803.4	818.5	835.9	856.0	872.0	898.6	923.8	951.1	982.1	1024.0	1073.7
20°	770.3	782.1	798.4	827.6	848.8	869.0	892.2	926.2	954.9	1002.2	1054.0
22.5°	742.3	750.9	769.2	793.2	817.9	841.4	865.0	897.4	932.7	977.8	1033.9
25°	700.7	714.5	728.4	745.6	772.3	800.4	826.0	853.7	891.2	939.1	999.8
27.5°	660.2	672.7	686.4	707.6	727.7	754.0	780.9	812.6	852.8	903.4	965.1
30°	634.1	643.5	656.3	683.4	701.7	724.4	756.0	784.1	821.6	875.4	940.6
32.5°	607.3	619.4	633.4	654.2	676.8	698.3	727.2	757.7	796.0	848.9	915.7
35°	569.0	583.2	597.6	612.8	635.6	657.8	681.9	715.5	754.5	805.9	871.5
37.5°	533.8	545.3	556.9	575.9	597.4	618.5	641.1	674.2	710.9	766.3	826.4
40°	511.2	521.6	530.5	550.3	570.9	593.6	615.9	645.0	684.5	736.2	794.5
42.5°	486.7	496.3	508.4	524.5	546.9	566.0	588.2	615.8	652.9	705.5	756.6
45°	450.1	460.9	471.3	486.5	508.8	527.5	547.2	573.4	611.4	654.9	700.2
47.5°	411.9	422.7	434.5	449.3	468.7	487.8	507.5	530.7	565.3	607.9	638.6
50°	387.4	396.2	408.1	422.9	440.6	460.9	478.6	503.8	536.9	570.4	597.1
52.5°	362.1	370.2	383.6	399.3	415.8	433.3	452.2	473.8	503.7	535.3	556.5
55°	322.7	332.6	343.9	359.2	375.5	390.3	408.6	430.8	454.5	478.2	492.5
57.5°	285.9	294.1	303.7	319.4	333.6	351.3	367.6	384.9	406.8	424.7	434.0
60°	259.1	266.5	278.8	292.7	305.9	321.2	340.0	357.3	374.1	388.3	395.8
62.5°	233.8	242.4	253.2	265.8	280.3	294.8	311.2	325.6	340.4	352.8	357.9
65°	200.9	207.7	215.7	227.5	239.3	254.1	266.9	281.7	292.7	299.5	304.0
67.5°	170.9	175.4	181.4	189.3	201.0	213.9	226.3	237.9	246.9	251.7	255.6
70°	151.5	154.5	158.9	166.8	175.7	187.0	199.8	208.2	216.1	220.1	224.0
72.5°	132.1	135.9	140.0	146.3	153.5	161.7	171.1	181.4	185.8	190.5	192.8
75°	100.2	105.6	111.0	115.0	119.9	126.3	134.7	141.1	143.6	147.5	148.1
77.5°	75.6	76.8	80.8	85.7	89.8	94.4	99.8	105.5	106.7	108.8	110.1
80°	62.2	62.2	62.2	65.1	70.0	73.5	78.4	81.4	83.4	83.9	84.4
82.5°	50.0	50.0	49.6	50.1	51.9	53.8	58.3	61.6	63.2	63.0	61.9
85°	32.6	31.6	31.6	31.1	31.6	30.6	30.1	32.0	35.1	35.1	34.0
87.5°	20.5	19.9	19.4	18.2	17.0	15.7	13.9	13.7	13.0	13.9	12.9
90°	35.3	34.1	30.0	25.9	21.8	17.7	14.0	10.9	7.7	4.6	1.4
92.5°	55.6	54.6	52.2	49.9	47.6	45.2	43.0	40.8	38.6	36.6	34.4
95°	106.4	105.2	102.6	100.1	97.6	95.1	92.7	90.5	88.3	86.1	83.9
97.5°	166.1	164.6	162.8	160.9	159.1	157.2	155.5	153.9	152.2	150.6	148.9
100°	209.9	209.0	207.4	205.8	204.2	202.6	200.9	199.0	197.1	195.2	193.3
102.5°	260.0	258.9	256.8	254.8	252.7	250.6	249.0	247.9	246.8	245.6	244.5
105°	335.5	335.5	332.6	329.7	326.9	324.0	322.3	321.7	321.0	320.5	319.8
107.5°	415.2	414.2	413.0	411.9	410.8	409.6	408.9	408.5	408.1	407.7	407.4
110°	468.9	467.6	466.9	466.4	465.7	465.1	464.5	463.8	463.2	462.6	461.9



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	522.5	521.0	520.9	520.8	520.7	520.6	520.3	519.9	519.5	519.2	518.8
115°	605.8	605.5	606.1	606.7	607.4	608.0	607.8	606.9	606.0	605.0	604.1
117.5°	689.0	689.1	689.8	690.7	691.5	692.3	692.4	691.8	691.2	690.5	689.9
120°	744.4	744.8	746.3	747.9	749.5	751.1	750.9	749.0	747.2	745.3	743.4
122.5°	800.8	801.6	802.5	803.2	804.1	804.9	804.6	803.2	801.8	800.4	799.1
125°	884.2	885.5	886.1	886.7	887.4	888.0	887.9	886.9	886.0	885.0	884.0
127.5°	966.7	968.5	969.2	969.9	970.5	971.3	970.6	968.6	966.6	964.5	962.5
130°	1020.7	1021.9	1022.8	1023.8	1024.7	1025.7	1024.9	1022.4	1019.8	1017.4	1014.8
132.5°	1073.8	1075.3	1076.0	1076.8	1077.4	1078.2	1077.2	1074.7	1072.1	1069.6	1067.1
135°	1152.8	1154.1	1154.4	1154.7	1155.1	1155.4	1154.6	1152.6	1150.8	1148.9	1147.0
137.5°	1230.4	1231.7	1230.9	1230.0	1229.3	1228.4	1227.2	1225.7	1224.1	1222.5	1220.9
140°	1280.3	1280.6	1280.3	1280.0	1279.7	1279.3	1278.4	1276.8	1275.3	1273.7	1272.1
142.5°	1328.0	1328.3	1327.8	1327.2	1326.6	1326.1	1325.0	1323.4	1321.8	1320.2	1318.7
145°	1398.3	1398.5	1397.6	1396.7	1395.7	1394.8	1394.0	1393.4	1392.7	1392.1	1391.5
147.5°	1464.2	1464.2	1463.3	1462.4	1461.6	1460.7	1459.7	1458.6	1457.4	1456.2	1455.1
150°	1505.1	1505.1	1504.5	1503.9	1503.3	1502.6	1502.0	1501.4	1500.7	1500.2	1499.5
152.5°	1542.1	1541.5	1541.2	1540.8	1540.4	1540.0	1539.4	1538.5	1537.7	1536.7	1535.9
155°	1596.0	1594.7	1594.4	1594.0	1593.7	1593.5	1593.3	1593.3	1593.3	1593.3	1593.3
157.5°	1642.9	1641.6	1641.3	1641.1	1640.9	1640.6	1640.7	1641.1	1641.4	1641.8	1642.2
160°	1671.6	1670.0	1670.0	1670.0	1670.0	1670.0	1670.4	1670.9	1671.6	1672.3	1672.9
162.5°	1698.9	1697.3	1697.0	1696.9	1696.6	1696.3	1696.7	1697.5	1698.4	1699.3	1700.2
165°	1733.1	1731.2	1731.2	1731.2	1731.2	1731.2	1731.6	1732.6	1733.5	1734.5	1735.4
167.5°	1761.0	1759.0	1758.8	1758.5	1758.2	1758.0	1758.5	1759.7	1761.0	1762.3	1763.6
170°	1776.0	1773.8	1773.8	1773.8	1773.8	1773.8	1774.4	1775.7	1777.0	1778.2	1779.4
172.5°	1788.3	1786.3	1786.3	1786.3	1786.3	1786.3	1787.0	1788.2	1789.4	1790.7	1792.0
175°	1801.3	1799.4	1799.4	1799.4	1799.4	1799.4	1800.0	1801.3	1802.5	1803.8	1805.1
177.5°	1807.4	1805.9	1805.9	1805.9	1805.9	1805.9	1806.4	1807.4	1808.5	1809.5	1810.4
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1159.0	1163.4	1168.9	1177.2	1183.6	1189.0	1190.2	1191.8	1195.8	1202.5	1207.6
5°	1166.6	1177.9	1196.2	1213.9	1233.2	1249.0	1263.8	1274.1	1284.0	1304.8	1321.5
7.5°	1164.2	1189.5	1218.0	1250.0	1282.2	1313.5	1342.6	1368.5	1394.3	1424.6	1459.0
10°	1162.6	1192.2	1230.7	1271.7	1316.5	1360.5	1403.0	1436.0	1474.5	1509.0	1552.9
12.5°	1155.1	1197.8	1243.8	1296.2	1351.3	1401.9	1457.8	1503.5	1547.6	1597.4	1648.5
15°	1145.4	1197.1	1255.4	1324.9	1408.8	1470.1	1527.3	1606.8	1661.0	1715.3	1788.3
17.5°	1127.5	1190.7	1263.5	1353.9	1423.9	1506.1	1592.2	1655.0	1728.2	1804.6	1870.8
20°	1113.2	1186.8	1268.2	1357.1	1446.3	1535.7	1619.1	1694.0	1769.6	1857.9	1912.2
22.5°	1099.1	1171.8	1256.4	1350.8	1446.7	1540.8	1635.2	1723.3	1808.3	1897.4	1966.7
25°	1068.8	1155.2	1247.0	1343.2	1437.9	1541.6	1654.1	1752.3	1857.4	1949.2	2014.9
27.5°	1038.2	1117.4	1208.8	1306.4	1411.7	1534.2	1666.5	1778.2	1883.5	1949.2	1969.8
30°	1010.6	1094.5	1178.4	1277.6	1391.6	1528.2	1668.9	1796.7	1883.1	1911.7	1890.5
32.5°	982.6	1058.6	1141.7	1243.2	1364.3	1513.6	1672.1	1785.6	1837.7	1815.8	1729.4
35°	933.1	1001.7	1082.1	1183.8	1323.0	1505.6	1659.1	1736.0	1723.2	1599.8	1437.0
37.5°	880.2	936.1	1010.6	1116.9	1280.2	1473.5	1603.0	1614.3	1503.3	1313.9	1125.8
40°	838.4	888.7	965.3	1076.3	1247.0	1441.9	1546.5	1500.6	1328.4	1117.7	960.8
42.5°	797.8	840.2	913.9	1033.6	1215.4	1398.9	1462.4	1362.4	1163.8	964.5	821.8
45°	728.9	768.8	842.8	965.7	1150.8	1316.5	1308.2	1134.4	935.7	775.2	656.8
47.5°	663.5	698.4	767.9	893.3	1074.9	1193.2	1114.7	929.9	761.2	632.5	548.1
50°	617.4	651.9	721.0	844.8	1014.1	1100.4	988.4	810.3	655.8	549.2	482.1
52.5°	573.2	606.9	670.1	790.7	940.7	992.3	871.9	706.8	578.1	486.1	428.4
55°	511.2	536.9	593.6	709.1	821.1	833.0	711.1	572.9	466.8	402.7	363.2
57.5°	448.2	470.2	526.3	618.3	696.9	690.8	575.2	455.6	384.2	336.6	307.9
60°	407.1	428.9	478.2	557.1	616.3	595.6	489.6	393.3	332.1	297.1	274.4
62.5°	368.8	385.8	432.0	489.7	532.3	508.8	418.5	338.8	290.3	260.7	242.8
65°	313.4	327.2	364.2	394.3	417.9	395.3	320.3	264.9	230.0	209.2	196.9
67.5°	260.6	269.5	292.8	303.7	320.4	295.5	240.8	203.8	183.9	166.4	157.8
70°	227.5	233.9	246.3	255.1	259.6	233.9	193.4	166.3	149.5	137.1	131.8
72.5°	194.4	199.9	202.5	209.7	207.5	183.4	155.5	133.9	121.9	113.5	106.5
75°	148.5	151.0	148.5	145.5	139.1	122.3	103.1	92.3	83.4	79.5	77.0
77.5°	108.3	107.4	104.2	99.4	88.5	77.9	67.6	64.0	60.1	58.1	57.1
80°	83.4	81.4	78.4	71.1	61.6	54.3	51.8	49.4	47.9	45.4	44.9
82.5°	62.1	60.9	56.0	49.8	43.2	39.7	37.6	36.8	35.3	33.9	33.8
85°	33.1	31.6	26.1	22.7	21.7	20.7	20.3	20.3	18.3	17.7	17.7
87.5°	11.6	9.8	10.1	9.5	10.3	10.3	11.5	11.5	12.0	12.6	12.1
90°	4.6	7.7	10.9	14.0	17.7	21.8	25.9	30.0	34.1	35.3	36.7
92.5°	36.6	38.6	40.8	43.0	45.2	47.6	49.9	52.2	54.6	55.6	56.6
95°	86.1	88.3	90.5	92.7	95.1	97.6	100.1	102.6	105.2	106.4	107.7
97.5°	150.6	152.2	153.9	155.5	157.2	159.1	160.9	162.8	164.6	166.1	167.5
100°	195.2	197.1	199.0	200.9	202.6	204.2	205.8	207.4	209.0	209.9	210.8
102.5°	245.6	246.8	247.9	249.0	250.6	252.7	254.8	256.8	258.9	260.0	260.9
105°	320.5	321.0	321.7	322.3	324.0	326.9	329.7	332.6	335.5	335.5	335.5
107.5°	407.7	408.1	408.5	408.9	409.6	410.8	411.9	413.0	414.2	415.2	416.2
110°	462.6	463.2	463.8	464.5	465.1	465.7	466.4	466.9	467.6	468.9	470.1



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	519.2	519.5	519.9	520.3	520.6	520.7	520.8	520.9	521.0	522.5	524.1
115°	605.0	606.0	606.9	607.8	608.0	607.4	606.7	606.1	605.5	605.8	606.1
117.5°	690.5	691.2	691.8	692.4	692.3	691.5	690.7	689.8	689.1	689.0	688.9
120°	745.3	747.2	749.0	750.9	751.1	749.5	747.9	746.3	744.8	744.4	744.1
122.5°	800.4	801.8	803.2	804.6	804.9	804.1	803.2	802.5	801.6	800.8	799.9
125°	885.0	886.0	886.9	887.9	888.0	887.4	886.7	886.1	885.5	884.2	883.0
127.5°	964.5	966.6	968.6	970.6	971.3	970.5	969.9	969.2	968.5	966.7	965.0
130°	1017.4	1019.8	1022.4	1024.9	1025.7	1024.7	1023.8	1022.8	1021.9	1020.7	1019.4
132.5°	1069.6	1072.1	1074.7	1077.2	1078.2	1077.4	1076.8	1076.0	1075.3	1073.8	1072.3
135°	1148.9	1150.8	1152.6	1154.6	1155.4	1155.1	1154.7	1154.4	1154.1	1152.8	1151.6
137.5°	1222.5	1224.1	1225.7	1227.2	1228.4	1229.3	1230.0	1230.9	1231.7	1230.4	1229.1
140°	1273.7	1275.3	1276.8	1278.4	1279.3	1279.7	1280.0	1280.3	1280.6	1280.3	1280.0
142.5°	1320.2	1321.8	1323.4	1325.0	1326.1	1326.6	1327.2	1327.8	1328.3	1328.0	1327.8
145°	1392.1	1392.7	1393.4	1394.0	1394.8	1395.7	1396.7	1397.6	1398.5	1398.3	1397.9
147.5°	1456.2	1457.4	1458.6	1459.7	1460.7	1461.6	1462.4	1463.3	1464.2	1464.2	1464.2
150°	1500.2	1500.7	1501.4	1502.0	1502.6	1503.3	1503.9	1504.5	1505.1	1505.1	1505.1
152.5°	1536.7	1537.7	1538.5	1539.4	1540.0	1540.4	1540.8	1541.2	1541.5	1542.1	1542.6
155°	1593.3	1593.3	1593.3	1593.3	1593.5	1593.7	1594.0	1594.4	1594.7	1596.0	1597.2
157.5°	1641.8	1641.4	1641.1	1640.7	1640.6	1640.9	1641.1	1641.3	1641.6	1642.9	1644.3
160°	1672.3	1671.6	1670.9	1670.4	1670.0	1670.0	1670.0	1670.0	1670.0	1671.6	1673.2
162.5°	1699.3	1698.4	1697.5	1696.7	1696.3	1696.6	1696.9	1697.0	1697.3	1698.9	1700.4
165°	1734.5	1733.5	1732.6	1731.6	1731.2	1731.2	1731.2	1731.2	1731.2	1733.1	1734.9
167.5°	1762.3	1761.0	1759.7	1758.5	1758.0	1758.2	1758.5	1758.8	1759.0	1761.0	1762.9
170°	1778.2	1777.0	1775.7	1774.4	1773.8	1773.8	1773.8	1773.8	1773.8	1776.0	1778.2
172.5°	1790.7	1789.4	1788.2	1787.0	1786.3	1786.3	1786.3	1786.3	1786.3	1788.3	1790.2
175°	1803.8	1802.5	1801.3	1800.0	1799.4	1799.4	1799.4	1799.4	1799.4	1801.3	1803.2
177.5°	1809.5	1808.5	1807.4	1806.4	1805.9	1805.9	1805.9	1805.9	1805.9	1807.4	1808.9
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7	1152.7
2.5°	1215.9	1215.9	1217.5	1223.4	1224.2	1229.4	1227.8
5°	1336.3	1345.7	1349.2	1364.0	1372.8	1376.8	1368.9
7.5°	1483.6	1510.0	1522.6	1538.0	1551.8	1555.9	1545.1
10°	1590.9	1618.5	1641.8	1656.0	1669.4	1678.3	1689.6
12.5°	1694.8	1728.7	1750.8	1770.9	1784.7	1795.9	1797.8
15°	1807.6	1858.9	1897.9	1926.5	1940.8	1948.2	1945.2
17.5°	1921.4	1969.0	1996.7	2025.9	2045.7	2046.7	2047.3
20°	1985.7	2032.1	2064.2	2085.8	2108.1	2107.1	2112.0
22.5°	2028.7	2065.3	2089.8	2105.6	2113.3	2109.5	2110.4
25°	2048.9	2059.7	2055.3	2030.1	2023.7	2000.5	2004.5
27.5°	1945.0	1893.8	1840.6	1772.4	1718.4	1675.5	1677.6
30°	1804.1	1713.4	1609.7	1522.9	1444.9	1423.1	1376.8
32.5°	1607.1	1470.9	1349.5	1268.6	1201.6	1183.6	1143.1
35°	1273.2	1140.9	1016.1	941.0	911.4	870.0	869.5
37.5°	989.6	873.2	807.1	750.8	721.3	696.3	693.8
40°	832.5	741.7	691.8	651.4	622.3	603.5	599.1
42.5°	722.7	649.3	602.7	577.6	555.2	545.4	538.3
45°	590.2	540.8	508.3	485.6	475.2	467.8	463.8
47.5°	493.7	460.6	438.4	423.3	414.9	407.1	409.2
50°	441.2	414.1	397.8	383.4	377.0	371.6	372.1
52.5°	398.9	374.6	361.4	351.1	343.1	339.2	337.3
55°	338.6	323.2	309.9	302.5	298.0	292.7	291.2
57.5°	288.8	276.9	266.1	257.7	256.6	251.4	252.0
60°	255.6	245.7	236.9	232.4	228.9	224.5	226.0
62.5°	228.4	220.1	212.0	208.3	204.9	201.6	202.4
65°	187.0	179.1	174.2	172.2	170.7	169.3	167.8
67.5°	149.0	144.2	141.1	136.9	133.8	133.4	131.9
70°	125.4	118.9	113.5	108.1	106.6	106.1	106.6
72.5°	100.5	96.4	94.9	92.3	92.0	90.7	91.6
75°	75.5	74.0	73.0	71.1	71.1	71.1	71.1
77.5°	55.7	54.8	54.2	53.8	53.3	52.6	52.5
80°	43.5	42.9	41.9	41.9	41.5	41.9	41.5
82.5°	32.8	32.7	31.7	31.7	31.2	30.9	31.2
85°	16.8	16.3	17.2	16.3	16.8	15.8	16.8
87.5°	12.3	12.5	12.3	12.5	12.3	13.1	12.4
90°	37.9	39.2	40.2	40.7	41.4	42.0	42.6
92.5°	57.6	58.6	58.9	58.5	58.2	57.8	57.4
95°	109.0	110.2	110.8	110.8	110.8	110.8	110.8
97.5°	168.9	170.4	171.1	171.0	170.8	170.7	170.6
100°	211.8	212.7	213.5	214.1	214.8	215.4	216.0
102.5°	261.8	262.8	263.2	263.1	262.9	262.8	262.7
105°	335.5	335.5	335.7	336.4	337.1	337.6	338.3
107.5°	417.2	418.2	418.5	418.1	417.7	417.4	417.0
110°	471.4	472.7	473.0	472.3	471.7	471.1	470.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	525.6	527.1	527.8	527.7	527.5	527.4	527.3
115°	606.4	606.7	606.7	606.4	606.1	605.8	605.5
117.5°	688.9	688.8	688.3	687.4	686.5	685.7	684.8
120°	743.9	743.5	743.0	742.4	741.8	741.1	740.5
122.5°	799.2	798.3	797.5	796.6	795.7	794.8	793.9
125°	881.7	880.4	879.1	877.9	876.7	875.3	874.1
127.5°	963.2	961.4	959.8	958.4	956.9	955.5	953.9
130°	1018.1	1016.9	1015.1	1013.0	1010.7	1008.5	1006.3
132.5°	1070.8	1069.3	1067.7	1066.0	1064.3	1062.5	1060.8
135°	1150.3	1149.1	1148.1	1147.5	1146.8	1146.2	1145.6
137.5°	1227.8	1226.4	1225.1	1223.9	1222.8	1221.5	1220.3
140°	1279.7	1279.3	1278.1	1275.8	1273.7	1271.4	1269.2
142.5°	1327.4	1327.1	1326.1	1324.4	1322.7	1321.0	1319.3
145°	1397.6	1397.3	1396.5	1395.2	1394.0	1392.7	1391.5
147.5°	1464.2	1464.2	1463.3	1461.4	1459.5	1457.5	1455.7
150°	1505.1	1505.1	1504.2	1502.3	1500.4	1498.5	1496.7
152.5°	1543.0	1543.6	1543.0	1541.3	1539.7	1538.0	1536.4
155°	1598.5	1599.8	1599.3	1597.0	1594.9	1592.6	1590.4
157.5°	1645.6	1646.9	1646.7	1644.9	1643.1	1641.3	1639.6
160°	1674.8	1676.3	1676.5	1675.3	1674.0	1672.7	1671.4
162.5°	1702.0	1703.6	1703.5	1701.4	1699.4	1697.3	1695.4
165°	1736.8	1738.7	1738.6	1736.4	1734.2	1731.9	1729.8
167.5°	1764.9	1766.8	1766.8	1764.9	1762.9	1761.0	1759.0
170°	1780.5	1782.6	1782.6	1780.5	1778.2	1776.0	1773.8
172.5°	1792.2	1794.1	1794.0	1791.8	1789.6	1787.3	1785.2
175°	1805.1	1806.9	1806.8	1804.6	1802.3	1800.2	1798.0
177.5°	1810.4	1811.9	1811.8	1810.1	1808.3	1806.6	1804.8
180°	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3	1809.3

(END OF REPORT)