

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: P332446

Luminaire Tested: **S123RDIW-S775D1535U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332446
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-S775D1535U835-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 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: 9187.2 lumens
Efficiency: N/A
Efficacy: 134.9 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

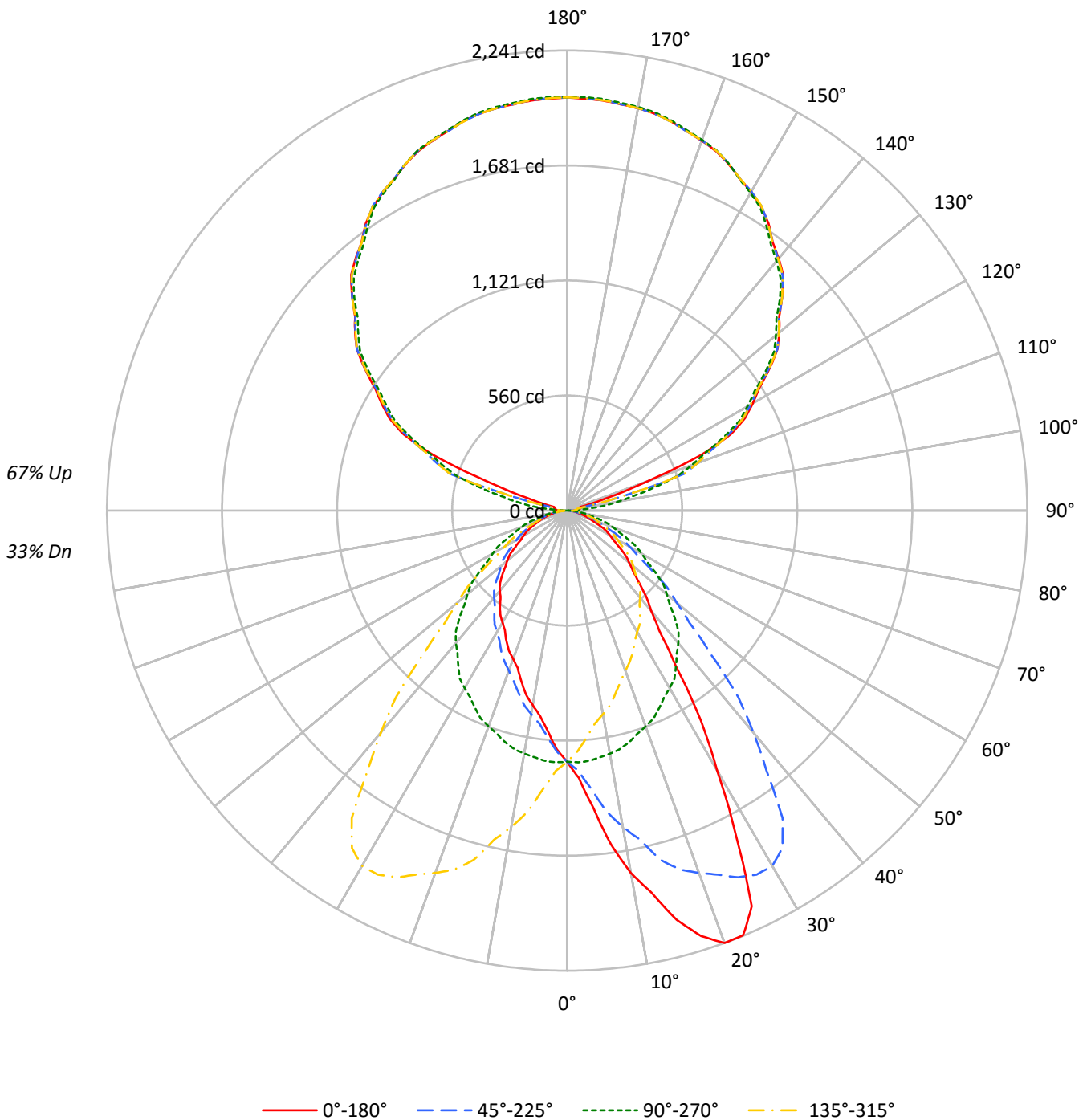
Input Watts (W): 68.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	94	90	87	83	85	82	79	76	65	63	61	50	49	48	37	36	35	29				
2	86	79	74	69	78	72	67	63	58	54	51	45	42	40	33	31	30	25				
3	79	70	63	58	71	63	58	53	51	47	44	40	37	35	29	28	26	21				
4	72	62	55	49	65	56	50	45	46	41	37	36	32	30	26	24	23	19				
5	66	55	48	42	60	50	44	39	41	36	32	32	29	26	24	22	20	16				
6	61	50	42	36	55	45	39	34	37	32	28	29	26	23	22	20	18	15				
7	57	45	37	32	51	41	34	30	33	29	25	26	23	20	20	18	16	13				
8	52	41	33	28	47	37	31	26	31	26	22	24	21	18	18	16	14	12				
9	49	37	30	25	44	34	28	23	28	23	20	22	19	16	17	15	13	11				
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13164	13164	13164	13164
5°	15692	13220	11642	13220
10°	19593	13144	10518	13144
15°	22998	13010	9591	13010
20°	25668	12810	8804	12810
25°	25258	12598	8320	12598
30°	18155	12403	7822	12403
35°	12122	12150	7499	12150
40°	8931	11844	7165	11844
45°	7491	11309	6838	11309
50°	6611	10608	6382	10608
55°	5797	9805	5758	9805
60°	5162	9040	5274	9040
65°	4534	8214	4908	8214
70°	3559	7481	4482	7481
75°	3136	6534	4092	6534
80°	2727	5548	4023	5548
85°	2198	4458	4273	4458



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	1.3
10°-20°	375.7	4.1
20°-30°	590.3	6.4
30°-40°	615.9	6.7
40°-50°	527.1	5.7
50°-60°	401.7	4.4
60°-70°	257.5	2.8
70°-80°	123.9	1.3
80°-90°	38.4	0.4
90°-100°	73.2	0.8
100°-110°	348.7	3.8
110°-120°	837.5	9.1
120°-130°	1066.5	11.6
130°-140°	1139.5	12.4
140°-150°	1065.6	11.6
150°-160°	859.5	9.4
160°-170°	554.7	6.0
170°-180°	191.2	2.1
0°-30°	1086.3	11.8
0°-40°	1702.2	18.5
0°-60°	2631.0	28.6
0°-90°	3050.7	33.2
90°-120°	1259.4	13.7
90°-150°	4531.0	49.3
90°-180°	6136.0	66.8
0°-180°	9187.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1223	1223	1223	1223	1223	
5°	1452	1224	1078	1224	1452	150
15°	2064	1168	861	1168	2064	585
25°	2127	1061	700	1061	2127	914
35°	922	925	571	925	922	605
45°	492	743	449	743	492	387
55°	309	522	307	522	309	279
65°	178	322	193	322	178	175
75°	75	157	98	157	75	81
85°	18	36	35	36	18	22
90°	45	2	45	2	45	21
95°	57	91	57	91	57	48
105°	66	446	66	446	66	150
115°	879	836	879	836	879	812
125°	1202	1178	1202	1178	1202	1073
135°	1482	1467	1482	1467	1482	1142
145°	1709	1692	1709	1692	1709	1067
155°	1861	1864	1861	1864	1861	858
165°	1961	1966	1961	1966	1961	554
175°	2005	2012	2005	2012	2005	191
180°	2012	2012	2012	2012	2012	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1302.6	1304.3	1298.8	1298.0	1291.7	1290.0	1290.0	1281.2	1275.8	1268.7	1264.5
5°	1452.3	1460.7	1456.5	1447.1	1431.4	1427.7	1417.8	1402.1	1384.3	1362.3	1351.8
7.5°	1639.3	1650.8	1646.4	1631.8	1615.4	1602.1	1574.0	1547.9	1511.4	1479.3	1451.9
10°	1792.6	1780.6	1771.2	1757.0	1741.9	1717.2	1687.9	1647.6	1601.0	1564.4	1523.5
12.5°	1907.4	1905.4	1893.5	1878.9	1857.5	1834.1	1798.1	1749.0	1694.8	1641.9	1595.2
15°	2063.8	2067.0	2059.1	2043.9	2013.6	1972.2	1917.8	1897.3	1819.9	1762.3	1704.7
17.5°	2172.1	2171.5	2170.4	2149.4	2118.4	2089.0	2038.5	1984.8	1914.6	1833.5	1755.9
20°	2240.8	2235.6	2236.6	2213.0	2190.0	2156.0	2106.8	2028.8	1971.2	1877.5	1797.3
22.5°	2239.1	2238.1	2242.1	2234.0	2217.2	2191.2	2152.4	2086.6	2013.1	1918.5	1828.3
25°	2126.7	2122.5	2147.1	2153.9	2180.6	2185.3	2173.8	2137.7	2068.0	1970.6	1859.1
27.5°	1779.9	1777.6	1823.2	1880.4	1952.8	2009.2	2063.6	2089.9	2068.0	1998.3	1886.6
30°	1460.7	1509.9	1533.0	1615.7	1707.8	1817.8	1914.1	2005.7	2028.2	1997.9	1906.2
32.5°	1212.8	1255.7	1274.9	1345.9	1431.8	1560.6	1705.1	1834.8	1926.5	1949.7	1894.5
35°	922.5	923.0	967.0	998.4	1078.0	1210.4	1350.8	1524.6	1697.3	1828.2	1841.8
37.5°	736.1	738.7	765.3	796.6	856.3	926.4	1049.9	1194.4	1394.0	1594.9	1712.7
40°	635.6	640.3	660.2	691.1	734.0	786.9	883.2	1019.4	1185.8	1409.4	1592.1
42.5°	571.1	578.7	589.0	612.8	639.4	688.9	766.8	871.9	1023.3	1234.7	1445.5
45°	492.1	496.3	504.2	515.2	539.3	573.8	626.2	696.8	822.5	992.7	1203.6
47.5°	434.1	431.9	440.2	449.1	465.1	488.7	523.8	581.5	671.1	807.6	986.6
50°	394.8	394.2	400.0	406.8	422.0	439.3	468.1	511.5	582.7	695.8	859.7
52.5°	357.9	359.9	364.0	372.5	383.4	397.4	423.2	454.5	515.7	613.3	749.9
55°	308.9	310.5	316.2	320.9	328.8	342.9	359.2	385.3	427.2	495.3	607.8
57.5°	267.4	266.7	272.2	273.4	282.3	293.8	306.4	326.7	357.1	407.6	483.4
60°	239.8	238.2	242.9	246.6	251.3	260.7	271.2	291.1	315.2	352.3	417.3
62.5°	214.7	213.9	217.4	221.0	224.9	233.5	242.3	257.6	276.6	308.0	359.5
65°	178.0	179.6	181.1	182.7	184.8	190.0	198.4	208.9	222.0	244.0	281.1
67.5°	139.9	141.5	142.0	145.2	149.7	153.0	158.1	167.4	176.5	195.1	216.2
70°	113.1	112.6	113.1	114.7	120.4	126.2	133.0	139.8	145.5	158.6	176.4
72.5°	97.2	96.2	97.6	97.9	100.7	102.3	106.6	113.0	120.4	129.3	142.1
75°	75.4	75.4	75.4	75.4	77.5	78.5	80.1	81.7	84.3	88.5	97.9
77.5°	55.7	55.8	56.5	57.1	57.5	58.1	59.1	60.6	61.6	63.8	67.9
80°	44.0	44.5	44.0	44.5	44.5	45.5	46.1	47.6	48.2	50.8	52.4
82.5°	33.1	32.8	33.1	33.6	33.6	34.7	34.8	35.9	36.0	37.4	39.0
85°	17.8	16.8	17.8	17.3	18.3	17.3	17.8	18.8	18.8	19.4	21.5
87.5°	13.2	13.9	12.9	13.2	13.0	13.3	13.0	12.7	13.3	12.6	12.2
90°	44.8	44.2	43.5	42.9	42.2	41.2	39.9	38.5	37.2	35.9	31.6
92.5°	49.6	49.2	48.8	48.4	48.0	46.8	44.7	42.5	40.4	38.3	35.0
95°	56.8	56.8	56.8	56.8	56.8	55.6	53.3	51.0	48.7	46.3	42.7
97.5°	61.6	61.3	60.9	60.6	60.3	58.8	56.1	53.5	50.8	48.1	42.1
100°	62.8	62.5	62.1	61.8	61.5	60.0	57.3	54.6	52.0	49.3	41.2
102.5°	64.0	63.4	62.8	62.2	61.6	65.4	73.7	81.9	90.1	98.4	155.0
105°	65.8	65.1	64.5	63.8	63.1	92.2	151.0	209.8	268.6	327.4	357.3
107.5°	206.6	250.9	295.2	339.6	383.9	427.6	470.7	513.8	557.0	600.1	595.4
110°	411.1	458.6	506.1	553.6	601.1	630.4	641.3	652.3	663.3	674.2	670.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	705.3	715.4	725.4	735.4	745.5	750.4	750.2	750.0	749.8	749.6	745.9
115°	879.1	877.7	876.4	875.1	873.7	871.4	868.1	864.8	861.4	858.1	855.1
117.5°	976.5	976.3	976.0	975.7	975.5	974.0	971.3	968.7	966.0	963.4	961.8
120°	1043.5	1043.5	1043.5	1043.5	1043.5	1042.2	1039.5	1036.9	1034.2	1031.5	1030.5
122.5°	1109.3	1109.0	1108.7	1108.5	1108.2	1107.2	1105.3	1103.4	1101.6	1099.7	1098.4
125°	1202.0	1201.3	1200.6	1200.0	1199.3	1198.6	1198.0	1197.3	1196.7	1196.0	1194.7
127.5°	1291.1	1291.7	1292.4	1293.1	1293.7	1293.5	1292.5	1291.4	1290.3	1289.3	1287.7
130°	1348.5	1349.1	1349.8	1350.5	1351.1	1350.8	1349.5	1348.1	1346.8	1345.5	1344.2
132.5°	1401.1	1402.0	1403.0	1403.9	1404.8	1404.6	1403.3	1402.0	1400.6	1399.3	1398.2
135°	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5	1484.5	1483.5	1482.5	1481.5	1480.2
137.5°	1557.2	1557.8	1558.5	1559.2	1559.8	1559.4	1557.8	1556.2	1554.6	1553.0	1552.3
140°	1602.6	1603.3	1604.0	1604.6	1605.3	1604.9	1603.6	1602.3	1601.0	1599.6	1598.6
142.5°	1644.5	1645.4	1646.3	1647.3	1648.2	1648.1	1647.1	1646.0	1644.9	1643.9	1642.9
145°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.4	1707.8	1707.1	1706.4	1705.8	1705.1
147.5°	1756.6	1758.1	1759.7	1761.2	1762.7	1763.2	1762.5	1761.8	1761.2	1760.5	1759.8
150°	1792.5	1793.5	1794.5	1795.5	1796.5	1796.6	1796.0	1795.3	1794.6	1794.0	1793.3
152.5°	1821.2	1822.7	1824.2	1825.8	1827.3	1827.5	1826.3	1825.1	1823.9	1822.7	1822.3
155°	1861.3	1863.2	1865.2	1867.2	1869.2	1869.4	1867.7	1866.1	1864.4	1862.7	1862.4
157.5°	1895.0	1897.6	1900.2	1902.8	1905.4	1905.7	1903.7	1901.7	1899.7	1897.7	1898.1
160°	1916.6	1918.9	1921.2	1923.5	1925.9	1926.0	1924.0	1922.1	1920.1	1918.1	1918.4
162.5°	1936.9	1939.0	1941.0	1943.1	1945.1	1945.0	1942.8	1940.5	1938.3	1936.0	1936.3
165°	1961.4	1963.7	1966.1	1968.4	1970.7	1970.6	1967.9	1965.2	1962.6	1959.9	1960.3
167.5°	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7	1987.0	1984.4	1981.7	1979.1	1979.1
170°	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5	1997.8	1995.1	1992.5	1989.8	1989.8
172.5°	1995.8	1998.7	2001.7	2004.6	2007.5	2007.6	2005.0	2002.3	1999.7	1997.0	1996.7
175°	2004.8	2007.4	2010.1	2012.7	2015.4	2015.6	2013.2	2010.9	2008.6	2006.3	2005.9
177.5°	2007.5	2010.1	2012.8	2015.4	2018.1	2018.4	2016.2	2014.1	2012.0	2009.9	2009.6
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1262.8	1261.5	1255.7	1249.0	1240.2	1234.3	1229.7	1227.2	1219.7	1210.4	1204.2
5°	1340.8	1325.1	1308.4	1287.9	1269.1	1249.7	1237.7	1223.5	1206.3	1186.9	1173.3
7.5°	1424.4	1393.6	1360.4	1326.2	1292.3	1262.0	1235.2	1212.2	1184.7	1156.9	1137.5
10°	1488.5	1443.4	1396.8	1349.2	1305.7	1264.9	1233.5	1202.6	1169.6	1137.7	1113.6
12.5°	1546.7	1487.4	1433.7	1375.2	1319.6	1270.8	1225.5	1189.2	1149.5	1115.5	1088.0
15°	1620.4	1559.7	1494.7	1405.7	1331.9	1270.1	1215.2	1167.5	1119.4	1077.5	1050.8
17.5°	1689.3	1597.9	1510.7	1436.4	1340.5	1263.3	1196.2	1139.2	1086.4	1042.0	1009.1
20°	1717.8	1629.3	1534.5	1439.8	1345.5	1259.1	1181.1	1118.3	1063.3	1013.1	982.7
22.5°	1734.9	1634.7	1534.9	1433.1	1333.0	1243.2	1166.1	1096.9	1037.4	989.6	952.1
25°	1754.9	1635.6	1525.6	1425.1	1323.0	1225.6	1134.0	1060.7	996.3	945.5	905.7
27.5°	1768.1	1627.7	1497.8	1386.0	1282.5	1185.5	1101.5	1023.9	958.5	904.8	862.1
30°	1770.6	1621.4	1476.4	1355.5	1250.2	1161.2	1072.2	997.9	928.8	871.7	831.9
32.5°	1774.0	1605.9	1447.5	1319.0	1211.3	1123.1	1042.5	971.5	900.7	844.5	803.9
35°	1760.2	1597.4	1403.6	1256.0	1148.1	1062.8	990.0	924.6	855.0	800.5	759.1
37.5°	1700.7	1563.3	1358.2	1185.0	1072.2	993.2	933.9	876.8	813.0	754.2	715.3
40°	1640.8	1529.8	1323.0	1141.9	1024.1	942.9	889.5	842.9	781.1	726.2	684.3
42.5°	1551.6	1484.2	1289.5	1096.6	969.6	891.4	846.4	802.7	748.5	692.7	653.3
45°	1387.9	1396.8	1220.9	1024.6	894.2	815.7	773.3	742.9	694.8	648.7	608.4
47.5°	1182.7	1265.9	1140.4	947.8	814.7	741.0	704.0	677.5	645.0	599.8	563.0
50°	1048.7	1167.5	1075.9	896.3	764.9	691.6	655.0	633.5	605.2	569.6	534.5
52.5°	925.1	1052.8	998.0	838.9	710.9	643.9	608.1	590.4	567.9	534.4	502.7
55°	754.4	883.8	871.2	752.3	629.8	569.6	542.4	522.5	507.3	482.2	457.1
57.5°	610.3	732.9	739.4	656.0	558.4	498.9	475.5	460.5	450.6	431.6	408.4
60°	519.4	631.9	653.9	591.1	507.3	455.0	431.9	419.9	412.0	396.9	379.1
62.5°	444.0	539.8	564.7	519.5	458.3	409.3	391.3	379.7	374.3	361.2	345.5
65°	339.8	419.4	443.4	418.3	386.4	347.1	332.5	322.5	317.8	310.5	298.9
67.5°	255.5	313.5	339.9	322.2	310.7	285.9	276.5	271.2	267.0	262.0	252.4
70°	205.2	248.2	275.4	270.7	261.3	248.2	241.4	237.7	233.5	229.3	220.9
72.5°	165.0	194.6	220.1	222.5	214.8	212.1	206.2	204.6	202.1	197.1	192.5
75°	109.4	129.8	147.6	154.4	157.6	160.2	157.6	157.1	156.5	152.4	149.7
77.5°	71.7	82.7	93.9	105.5	110.5	114.0	114.9	116.8	115.4	113.2	111.9
80°	55.0	57.6	65.4	75.4	83.2	86.4	88.5	89.5	89.0	88.5	86.4
82.5°	39.9	42.1	45.8	52.8	59.4	64.6	65.9	65.7	66.8	67.1	65.4
85°	21.5	22.0	23.0	24.1	27.7	33.5	35.1	36.1	37.2	37.2	34.0
87.5°	12.1	10.9	10.8	10.1	10.7	10.4	12.3	13.7	14.8	13.8	14.4
90°	27.2	22.9	18.6	14.8	11.5	8.1	4.8	1.5	4.8	8.1	11.5
92.5°	31.8	28.5	25.2	24.1	25.0	25.9	26.9	27.8	26.9	25.9	25.0
95°	39.0	35.4	31.7	36.7	50.3	64.0	77.6	91.2	77.6	64.0	50.3
97.5°	96.0	119.9	143.8	158.8	164.9	171.1	177.2	183.3	177.2	171.1	164.9
100°	153.0	204.8	256.6	279.2	272.6	265.9	259.3	252.7	259.3	265.9	272.6
102.5°	211.6	268.2	324.8	350.7	345.9	341.2	336.4	331.6	336.4	341.2	345.9
105°	387.2	417.1	447.0	460.1	456.5	452.8	449.2	445.5	449.2	452.8	456.5
107.5°	590.7	585.9	581.2	577.4	574.5	571.5	568.6	565.7	568.6	571.5	574.5
110°	666.9	663.3	659.6	656.5	653.8	651.1	648.5	645.8	648.5	651.1	653.8



TEST NUMBER: P332446

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	742.3	738.6	735.0	731.9	729.6	727.2	724.8	722.4	724.8	727.2	729.6
115°	852.1	849.2	846.2	843.7	841.7	839.7	837.7	835.7	837.7	839.7	841.7
117.5°	960.3	958.8	957.3	955.3	952.8	950.3	947.9	945.4	947.9	950.3	952.8
120°	1029.5	1028.5	1027.6	1025.6	1022.6	1019.6	1016.6	1013.6	1016.6	1019.6	1022.6
122.5°	1097.2	1095.9	1094.7	1092.8	1090.3	1087.9	1085.4	1083.0	1085.4	1087.9	1090.3
125°	1193.3	1192.0	1190.7	1188.7	1186.0	1183.4	1180.7	1178.0	1180.7	1183.4	1186.0
127.5°	1286.1	1284.5	1282.9	1280.8	1278.1	1275.5	1272.8	1270.1	1272.8	1275.5	1278.1
130°	1342.8	1341.5	1340.2	1338.2	1335.5	1332.9	1330.2	1327.5	1330.2	1332.9	1335.5
132.5°	1397.2	1396.1	1395.1	1393.2	1390.5	1387.9	1385.2	1382.6	1385.2	1387.9	1390.5
135°	1478.9	1477.5	1476.2	1474.6	1472.6	1470.6	1468.6	1466.6	1468.6	1470.6	1472.6
137.5°	1551.5	1550.8	1550.1	1548.4	1545.9	1543.4	1540.9	1538.3	1540.9	1543.4	1545.9
140°	1597.6	1596.6	1595.6	1594.2	1592.2	1590.2	1588.2	1586.2	1588.2	1590.2	1592.2
142.5°	1641.9	1640.9	1639.9	1638.4	1636.4	1634.4	1632.4	1630.4	1632.4	1634.4	1636.4
145°	1704.4	1703.8	1703.1	1701.6	1699.3	1697.0	1694.6	1692.3	1694.6	1697.0	1699.3
147.5°	1759.2	1758.5	1757.8	1756.7	1755.2	1753.7	1752.2	1750.6	1752.2	1753.7	1755.2
150°	1792.7	1792.0	1791.3	1790.5	1789.5	1788.5	1787.5	1786.5	1787.5	1788.5	1789.5
152.5°	1821.9	1821.5	1821.1	1820.7	1820.2	1819.7	1819.3	1818.8	1819.3	1819.7	1820.2
155°	1862.1	1861.8	1861.4	1861.6	1862.3	1862.9	1863.6	1864.2	1863.6	1862.9	1862.3
157.5°	1898.4	1898.7	1899.1	1899.3	1899.3	1899.4	1899.5	1899.5	1899.5	1899.4	1899.3
160°	1918.7	1919.1	1919.4	1919.7	1920.1	1920.4	1920.7	1921.1	1920.7	1920.4	1920.1
162.5°	1936.7	1937.0	1937.3	1937.9	1938.8	1939.7	1940.5	1941.4	1940.5	1939.7	1938.8
165°	1960.6	1960.9	1961.3	1961.9	1962.9	1963.9	1964.9	1965.9	1964.9	1963.9	1962.9
167.5°	1979.1	1979.1	1979.1	1979.7	1981.1	1982.4	1983.7	1985.0	1983.7	1982.4	1981.1
170°	1989.8	1989.8	1989.8	1990.5	1991.8	1993.1	1994.5	1995.8	1994.5	1993.1	1991.8
172.5°	1996.5	1996.2	1995.9	1996.6	1998.2	1999.8	2001.4	2003.0	2001.4	1999.8	1998.2
175°	2005.6	2005.3	2004.9	2005.6	2007.3	2008.9	2010.6	2012.2	2010.6	2008.9	2007.3
177.5°	2009.3	2009.1	2008.8	2009.3	2010.7	2012.0	2013.3	2014.6	2013.3	2012.0	2010.7
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332446

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1202.1	1196.6	1192.9	1184.5	1179.0	1173.2	1167.3	1171.1	1170.7	1170.2	1170.2
5°	1161.8	1149.7	1138.7	1124.6	1115.7	1104.7	1096.3	1095.3	1097.4	1090.0	1085.8
7.5°	1121.8	1105.3	1089.7	1074.1	1057.6	1044.4	1036.1	1032.2	1026.9	1022.4	1017.7
10°	1093.7	1074.3	1059.1	1039.8	1022.0	1006.3	996.3	989.5	985.8	982.2	975.4
12.5°	1064.8	1045.8	1026.5	1004.6	987.6	969.4	962.0	954.3	947.3	943.2	933.9
15°	1022.5	997.9	977.5	954.4	935.6	917.8	907.3	892.1	890.0	884.8	875.4
17.5°	980.1	953.4	925.2	908.2	886.9	868.4	852.4	847.3	832.3	826.7	818.5
20°	946.6	922.0	900.5	878.0	847.1	829.8	817.3	810.5	798.4	791.1	785.8
22.5°	917.7	892.7	867.8	841.6	816.1	796.7	787.5	776.9	770.4	760.1	754.4
25°	876.4	849.2	819.4	791.1	772.8	758.1	743.4	734.0	724.6	719.9	709.4
27.5°	828.5	800.0	772.1	750.7	728.2	713.7	700.4	692.0	680.7	672.8	667.0
30°	802.1	768.6	744.5	725.1	696.3	682.7	672.8	662.3	653.9	645.5	639.8
32.5°	771.5	740.9	718.1	694.1	672.0	657.2	644.3	635.1	627.9	620.0	614.2
35°	723.5	697.9	674.3	650.2	634.0	618.8	603.7	595.8	589.0	581.7	576.4
37.5°	680.2	656.2	633.8	611.0	590.9	578.5	566.3	560.3	551.1	546.2	540.8
40°	653.4	629.8	605.7	583.8	562.8	553.4	542.4	533.5	525.1	521.5	515.7
42.5°	624.1	600.5	580.2	556.5	539.4	526.6	516.4	506.7	500.4	495.1	491.8
45°	580.6	559.7	539.8	516.2	500.0	489.0	477.5	468.6	462.8	459.2	453.4
47.5°	538.4	517.5	497.3	476.7	461.0	448.5	437.0	430.8	423.1	418.6	414.8
50°	507.8	489.0	467.5	448.7	433.0	420.4	411.0	403.1	396.3	390.6	388.0
52.5°	479.8	459.7	441.1	423.6	407.0	392.8	384.2	375.9	370.8	364.2	361.1
55°	433.5	414.1	398.4	381.1	364.9	352.9	342.4	335.1	329.8	322.5	318.3
57.5°	390.0	372.7	353.9	338.9	322.2	312.0	303.3	293.4	287.0	281.3	277.2
60°	360.7	340.8	324.6	310.5	295.8	282.7	274.9	267.0	260.2	254.4	250.8
62.5°	330.2	312.8	297.4	282.0	268.6	257.2	248.1	241.5	235.5	231.8	228.2
65°	283.2	269.6	253.9	241.4	228.8	220.4	213.1	207.3	203.1	200.5	197.4
67.5°	240.1	226.9	213.2	200.8	192.5	186.1	181.3	176.3	174.2	170.9	168.8
70°	212.0	198.4	186.4	177.0	168.6	163.9	160.7	157.1	155.0	150.8	148.7
72.5°	181.5	171.6	162.9	155.2	148.5	144.2	140.2	135.7	132.4	127.7	125.7
75°	142.9	134.0	127.2	122.0	117.8	112.0	106.3	101.6	100.0	98.4	97.9
77.5°	105.9	100.2	95.3	90.9	85.7	81.5	80.2	79.2	78.8	78.0	78.0
80°	83.2	78.0	74.3	69.1	66.0	66.0	66.0	64.9	65.4	65.4	65.4
82.5°	61.9	57.1	55.1	53.2	52.6	53.0	53.0	53.2	52.9	53.7	53.3
85°	31.9	32.5	33.5	33.0	33.5	33.5	34.6	34.0	34.6	33.5	34.6
87.5°	14.7	16.7	18.0	19.3	20.6	21.0	21.7	21.9	22.6	22.9	23.1
90°	14.8	18.6	22.9	27.2	31.6	35.9	37.2	38.5	39.9	41.2	42.2
92.5°	24.1	25.2	28.5	31.8	35.0	38.3	40.4	42.5	44.7	46.8	48.0
95°	36.7	31.7	35.4	39.0	42.7	46.3	48.7	51.0	53.3	55.6	56.8
97.5°	158.8	143.8	119.9	96.0	72.1	48.1	50.8	53.5	56.1	58.8	60.3
100°	279.2	256.6	204.8	153.0	101.2	49.3	52.0	54.6	57.3	60.0	61.5
102.5°	350.7	324.8	268.2	211.6	155.0	98.4	90.1	81.9	73.7	65.4	61.6
105°	460.1	447.0	417.1	387.2	357.3	327.4	268.6	209.8	151.0	92.2	63.1
107.5°	577.4	581.2	585.9	590.7	595.4	600.1	557.0	513.8	470.7	427.6	383.9
110°	656.5	659.6	663.3	666.9	670.6	674.2	663.3	652.3	641.3	630.4	601.1



TEST NUMBER: P332446

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	731.9	735.0	738.6	742.3	745.9	749.6	749.8	750.0	750.2	750.4	745.5
115°	843.7	846.2	849.2	852.1	855.1	858.1	861.4	864.8	868.1	871.4	873.7
117.5°	955.3	957.3	958.8	960.3	961.8	963.4	966.0	968.7	971.3	974.0	975.5
120°	1025.6	1027.6	1028.5	1029.5	1030.5	1031.5	1034.2	1036.9	1039.5	1042.2	1043.5
122.5°	1092.8	1094.7	1095.9	1097.2	1098.4	1099.7	1101.6	1103.4	1105.3	1107.2	1108.2
125°	1188.7	1190.7	1192.0	1193.3	1194.7	1196.0	1196.7	1197.3	1198.0	1198.6	1199.3
127.5°	1280.8	1282.9	1284.5	1286.1	1287.7	1289.3	1290.3	1291.4	1292.5	1293.5	1293.7
130°	1338.2	1340.2	1341.5	1342.8	1344.2	1345.5	1346.8	1348.1	1349.5	1350.8	1351.1
132.5°	1393.2	1395.1	1396.1	1397.2	1398.2	1399.3	1400.6	1402.0	1403.3	1404.6	1404.8
135°	1474.6	1476.2	1477.5	1478.9	1480.2	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5
137.5°	1548.4	1550.1	1550.8	1551.5	1552.3	1553.0	1554.6	1556.2	1557.8	1559.4	1559.8
140°	1594.2	1595.6	1596.6	1597.6	1598.6	1599.6	1601.0	1602.3	1603.6	1604.9	1605.3
142.5°	1638.4	1639.9	1640.9	1641.9	1642.9	1643.9	1644.9	1646.0	1647.1	1648.1	1648.2
145°	1701.6	1703.1	1703.8	1704.4	1705.1	1705.8	1706.4	1707.1	1707.8	1708.4	1708.8
147.5°	1756.7	1757.8	1758.5	1759.2	1759.8	1760.5	1761.2	1761.8	1762.5	1763.2	1762.7
150°	1790.5	1791.3	1792.0	1792.7	1793.3	1794.0	1794.6	1795.3	1796.0	1796.6	1796.5
152.5°	1820.7	1821.1	1821.5	1821.9	1822.3	1822.7	1823.9	1825.1	1826.3	1827.5	1827.3
155°	1861.6	1861.4	1861.8	1862.1	1862.4	1862.7	1864.4	1866.1	1867.7	1869.4	1869.2
157.5°	1899.3	1899.1	1898.7	1898.4	1898.1	1897.7	1899.7	1901.7	1903.7	1905.7	1905.4
160°	1919.7	1919.4	1919.1	1918.7	1918.4	1918.1	1920.1	1922.1	1924.0	1926.0	1925.9
162.5°	1937.9	1937.3	1937.0	1936.7	1936.3	1936.0	1938.3	1940.5	1942.8	1945.0	1945.1
165°	1961.9	1961.3	1960.9	1960.6	1960.3	1959.9	1962.6	1965.2	1967.9	1970.6	1970.7
167.5°	1979.7	1979.1	1979.1	1979.1	1979.1	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7
170°	1990.5	1989.8	1989.8	1989.8	1989.8	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5
172.5°	1996.6	1995.9	1996.2	1996.5	1996.7	1997.0	1999.7	2002.3	2005.0	2007.6	2007.5
175°	2005.6	2004.9	2005.3	2005.6	2005.9	2006.3	2008.6	2010.9	2013.2	2015.6	2015.4
177.5°	2009.3	2008.8	2009.1	2009.3	2009.6	2009.9	2012.0	2014.1	2016.2	2018.4	2018.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332446

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1165.2	1164.8	1165.2	1163.5	1165.2	1164.8	1165.2	1170.2	1170.2	1170.7	1171.1
5°	1084.3	1083.7	1082.2	1077.5	1082.2	1083.7	1084.3	1085.8	1090.0	1097.4	1095.3
7.5°	1013.6	1012.9	1008.3	1008.4	1008.3	1012.9	1013.6	1017.7	1022.4	1026.9	1032.2
10°	971.7	972.2	966.0	962.3	966.0	972.2	971.7	975.4	982.2	985.8	989.5
12.5°	931.1	928.7	923.6	919.6	923.6	928.7	931.1	933.9	943.2	947.3	954.3
15°	877.5	872.2	859.7	860.7	859.7	872.2	877.5	875.4	884.8	890.0	892.1
17.5°	814.3	810.5	810.2	802.9	810.2	810.5	814.3	818.5	826.7	832.3	847.3
20°	777.5	774.9	775.9	768.6	775.9	774.9	777.5	785.8	791.1	798.4	810.5
22.5°	748.6	746.0	741.6	739.3	741.6	746.0	748.6	754.4	760.1	770.4	776.9
25°	706.3	702.1	697.9	700.5	697.9	702.1	706.3	709.4	719.9	724.6	734.0
27.5°	664.0	660.8	656.6	656.1	656.6	660.8	664.0	667.0	672.8	680.7	692.0
30°	637.2	634.0	631.9	629.3	631.9	634.0	637.2	639.8	645.5	653.9	662.3
32.5°	609.9	609.3	605.5	605.0	605.5	609.3	609.9	614.2	620.0	627.9	635.1
35°	574.3	571.2	570.1	570.7	570.1	571.2	574.3	576.4	581.7	589.0	595.8
37.5°	540.5	536.3	534.4	532.6	534.4	536.3	540.5	540.8	546.2	551.1	560.3
40°	516.2	512.0	511.0	509.9	511.0	512.0	516.2	515.7	521.5	525.1	533.5
42.5°	489.0	487.3	486.7	484.8	486.7	487.3	489.0	491.8	495.1	500.4	506.7
45°	451.8	451.3	448.2	449.2	448.2	451.3	451.8	453.4	459.2	462.8	468.6
47.5°	412.7	410.4	408.2	409.6	408.2	410.4	412.7	414.8	418.6	423.1	430.8
50°	385.9	384.8	380.1	381.1	380.1	384.8	385.9	388.0	390.6	396.3	403.1
52.5°	359.1	355.1	353.3	352.7	353.3	355.1	359.1	361.1	364.2	370.8	375.9
55°	314.7	309.9	307.8	306.8	307.8	309.9	314.7	318.3	322.5	329.8	335.1
57.5°	271.1	269.8	268.2	269.3	268.2	269.8	271.1	277.2	281.3	287.0	293.4
60°	245.5	245.5	245.5	245.0	245.5	245.5	245.5	250.8	254.4	260.2	267.0
62.5°	225.9	224.6	224.2	224.9	224.2	224.6	225.9	228.2	231.8	235.5	241.5
65°	195.8	195.3	193.2	192.7	193.2	195.3	195.8	197.4	200.5	203.1	207.3
67.5°	167.4	165.5	164.9	164.2	164.9	165.5	167.4	168.8	170.9	174.2	176.3
70°	146.1	145.0	141.9	142.4	141.9	145.0	146.1	148.7	150.8	155.0	157.1
72.5°	123.0	122.0	121.4	120.6	121.4	122.0	123.0	125.7	127.7	132.4	135.7
75°	97.4	96.9	96.3	98.4	96.3	96.9	97.4	97.9	98.4	100.0	101.6
77.5°	78.0	78.0	78.3	77.5	78.3	78.0	78.0	78.0	78.0	78.8	79.2
80°	65.4	65.4	64.9	64.9	64.9	65.4	65.4	65.4	65.4	65.4	64.9
82.5°	52.5	52.9	53.2	52.4	53.2	52.9	52.5	53.3	53.7	52.9	53.2
85°	34.6	34.0	35.1	34.6	35.1	34.0	34.6	34.6	33.5	34.6	34.0
87.5°	24.1	23.4	23.5	24.0	23.5	23.4	24.1	23.1	22.9	22.6	21.9
90°	42.9	43.5	44.2	44.8	44.2	43.5	42.9	42.2	41.2	39.9	38.5
92.5°	48.4	48.8	49.2	49.6	49.2	48.8	48.4	48.0	46.8	44.7	42.5
95°	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	55.6	53.3	51.0
97.5°	60.6	60.9	61.3	61.6	61.3	60.9	60.6	60.3	58.8	56.1	53.5
100°	61.8	62.1	62.5	62.8	62.5	62.1	61.8	61.5	60.0	57.3	54.6
102.5°	62.2	62.8	63.4	64.0	63.4	62.8	62.2	61.6	65.4	73.7	81.9
105°	63.8	64.5	65.1	65.8	65.1	64.5	63.8	63.1	92.2	151.0	209.8
107.5°	339.6	295.2	250.9	206.6	250.9	295.2	339.6	383.9	427.6	470.7	513.8
110°	553.6	506.1	458.6	411.1	458.6	506.1	553.6	601.1	630.4	641.3	652.3



TEST NUMBER: P332446

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	735.4	725.4	715.4	705.3	715.4	725.4	735.4	745.5	750.4	750.2	750.0
115°	875.1	876.4	877.7	879.1	877.7	876.4	875.1	873.7	871.4	868.1	864.8
117.5°	975.7	976.0	976.3	976.5	976.3	976.0	975.7	975.5	974.0	971.3	968.7
120°	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1043.5	1042.2	1039.5	1036.9
122.5°	1108.5	1108.7	1109.0	1109.3	1109.0	1108.7	1108.5	1108.2	1107.2	1105.3	1103.4
125°	1200.0	1200.6	1201.3	1202.0	1201.3	1200.6	1200.0	1199.3	1198.6	1198.0	1197.3
127.5°	1293.1	1292.4	1291.7	1291.1	1291.7	1292.4	1293.1	1293.7	1293.5	1292.5	1291.4
130°	1350.5	1349.8	1349.1	1348.5	1349.1	1349.8	1350.5	1351.1	1350.8	1349.5	1348.1
132.5°	1403.9	1403.0	1402.0	1401.1	1402.0	1403.0	1403.9	1404.8	1404.6	1403.3	1402.0
135°	1484.5	1483.5	1482.5	1481.5	1482.5	1483.5	1484.5	1485.5	1485.5	1484.5	1483.5
137.5°	1559.2	1558.5	1557.8	1557.2	1557.8	1558.5	1559.2	1559.8	1559.4	1557.8	1556.2
140°	1604.6	1604.0	1603.3	1602.6	1603.3	1604.0	1604.6	1605.3	1604.9	1603.6	1602.3
142.5°	1647.3	1646.3	1645.4	1644.5	1645.4	1646.3	1647.3	1648.2	1648.1	1647.1	1646.0
145°	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.8	1708.4	1707.8	1707.1
147.5°	1761.2	1759.7	1758.1	1756.6	1758.1	1759.7	1761.2	1762.7	1763.2	1762.5	1761.8
150°	1795.5	1794.5	1793.5	1792.5	1793.5	1794.5	1795.5	1796.5	1796.6	1796.0	1795.3
152.5°	1825.8	1824.2	1822.7	1821.2	1822.7	1824.2	1825.8	1827.3	1827.5	1826.3	1825.1
155°	1867.2	1865.2	1863.2	1861.3	1863.2	1865.2	1867.2	1869.2	1869.4	1867.7	1866.1
157.5°	1902.8	1900.2	1897.6	1895.0	1897.6	1900.2	1902.8	1905.4	1905.7	1903.7	1901.7
160°	1923.5	1921.2	1918.9	1916.6	1918.9	1921.2	1923.5	1925.9	1926.0	1924.0	1922.1
162.5°	1943.1	1941.0	1939.0	1936.9	1939.0	1941.0	1943.1	1945.1	1945.0	1942.8	1940.5
165°	1968.4	1966.1	1963.7	1961.4	1963.7	1966.1	1968.4	1970.7	1970.6	1967.9	1965.2
167.5°	1987.0	1984.4	1981.7	1979.1	1981.7	1984.4	1987.0	1989.7	1989.7	1987.0	1984.4
170°	1997.8	1995.1	1992.5	1989.8	1992.5	1995.1	1997.8	2000.5	2000.5	1997.8	1995.1
172.5°	2004.6	2001.7	1998.7	1995.8	1998.7	2001.7	2004.6	2007.5	2007.6	2005.0	2002.3
175°	2012.7	2010.1	2007.4	2004.8	2007.4	2010.1	2012.7	2015.4	2015.6	2013.2	2010.9
177.5°	2015.4	2012.8	2010.1	2007.5	2010.1	2012.8	2015.4	2018.1	2018.4	2016.2	2014.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332446

CATALOG NUMBER: S123RDIW-S775D1535U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1167.3	1173.2	1179.0	1184.5	1192.9	1196.6	1202.1	1204.2	1210.4	1219.7	1227.2
5°	1096.3	1104.7	1115.7	1124.6	1138.7	1149.7	1161.8	1173.3	1186.9	1206.3	1223.5
7.5°	1036.1	1044.4	1057.6	1074.1	1089.7	1105.3	1121.8	1137.5	1156.9	1184.7	1212.2
10°	996.3	1006.3	1022.0	1039.8	1059.1	1074.3	1093.7	1113.6	1137.7	1169.6	1202.6
12.5°	962.0	969.4	987.6	1004.6	1026.5	1045.8	1064.8	1088.0	1115.5	1149.5	1189.2
15°	907.3	917.8	935.6	954.4	977.5	997.9	1022.5	1050.8	1077.5	1119.4	1167.5
17.5°	852.4	868.4	886.9	908.2	925.2	953.4	980.1	1009.1	1042.0	1086.4	1139.2
20°	817.3	829.8	847.1	878.0	900.5	922.0	946.6	982.7	1013.1	1063.3	1118.3
22.5°	787.5	796.7	816.1	841.6	867.8	892.7	917.7	952.1	989.6	1037.4	1096.9
25°	743.4	758.1	772.8	791.1	819.4	849.2	876.4	905.7	945.5	996.3	1060.7
27.5°	700.4	713.7	728.2	750.7	772.1	800.0	828.5	862.1	904.8	958.5	1023.9
30°	672.8	682.7	696.3	725.1	744.5	768.6	802.1	831.9	871.7	928.8	997.9
32.5°	644.3	657.2	672.0	694.1	718.1	740.9	771.5	803.9	844.5	900.7	971.5
35°	603.7	618.8	634.0	650.2	674.3	697.9	723.5	759.1	800.5	855.0	924.6
37.5°	566.3	578.5	590.9	611.0	633.8	656.2	680.2	715.3	754.2	813.0	876.8
40°	542.4	553.4	562.8	583.8	605.7	629.8	653.4	684.3	726.2	781.1	842.9
42.5°	516.4	526.6	539.4	556.5	580.2	600.5	624.1	653.3	692.7	748.5	802.7
45°	477.5	489.0	500.0	516.2	539.8	559.7	580.6	608.4	648.7	694.8	742.9
47.5°	437.0	448.5	461.0	476.7	497.3	517.5	538.4	563.0	599.8	645.0	677.5
50°	411.0	420.4	433.0	448.7	467.5	489.0	507.8	534.5	569.6	605.2	633.5
52.5°	384.2	392.8	407.0	423.6	441.1	459.7	479.8	502.7	534.4	567.9	590.4
55°	342.4	352.9	364.9	381.1	398.4	414.1	433.5	457.1	482.2	507.3	522.5
57.5°	303.3	312.0	322.2	338.9	353.9	372.7	390.0	408.4	431.6	450.6	460.5
60°	274.9	282.7	295.8	310.5	324.6	340.8	360.7	379.1	396.9	412.0	419.9
62.5°	248.1	257.2	268.6	282.0	297.4	312.8	330.2	345.5	361.2	374.3	379.7
65°	213.1	220.4	228.8	241.4	253.9	269.6	283.2	298.9	310.5	317.8	322.5
67.5°	181.3	186.1	192.5	200.8	213.2	226.9	240.1	252.4	262.0	267.0	271.2
70°	160.7	163.9	168.6	177.0	186.4	198.4	212.0	220.9	229.3	233.5	237.7
72.5°	140.2	144.2	148.5	155.2	162.9	171.6	181.5	192.5	197.1	202.1	204.6
75°	106.3	112.0	117.8	122.0	127.2	134.0	142.9	149.7	152.4	156.5	157.1
77.5°	80.2	81.5	85.7	90.9	95.3	100.2	105.9	111.9	113.2	115.4	116.8
80°	66.0	66.0	66.0	69.1	74.3	78.0	83.2	86.4	88.5	89.0	89.5
82.5°	53.0	53.0	52.6	53.2	55.1	57.1	61.9	65.4	67.1	66.8	65.7
85°	34.6	33.5	33.5	33.0	33.5	32.5	31.9	34.0	37.2	37.2	36.1
87.5°	21.7	21.0	20.6	19.3	18.0	16.7	14.7	14.4	13.8	14.8	13.7
90°	37.2	35.9	31.6	27.2	22.9	18.6	14.8	11.5	8.1	4.8	1.5
92.5°	40.4	38.3	35.0	31.8	28.5	25.2	24.1	25.0	25.9	26.9	27.8
95°	48.7	46.3	42.7	39.0	35.4	31.7	36.7	50.3	64.0	77.6	91.2
97.5°	50.8	48.1	72.1	96.0	119.9	143.8	158.8	164.9	171.1	177.2	183.3
100°	52.0	49.3	101.2	153.0	204.8	256.6	279.2	272.6	265.9	259.3	252.7
102.5°	90.1	98.4	155.0	211.6	268.2	324.8	350.7	345.9	341.2	336.4	331.6
105°	268.6	327.4	357.3	387.2	417.1	447.0	460.1	456.5	452.8	449.2	445.5
107.5°	557.0	600.1	595.4	590.7	585.9	581.2	577.4	574.5	571.5	568.6	565.7
110°	663.3	674.2	670.6	666.9	663.3	659.6	656.5	653.8	651.1	648.5	645.8



TEST NUMBER: P332446

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	749.8	749.6	745.9	742.3	738.6	735.0	731.9	729.6	727.2	724.8	722.4
115°	861.4	858.1	855.1	852.1	849.2	846.2	843.7	841.7	839.7	837.7	835.7
117.5°	966.0	963.4	961.8	960.3	958.8	957.3	955.3	952.8	950.3	947.9	945.4
120°	1034.2	1031.5	1030.5	1029.5	1028.5	1027.6	1025.6	1022.6	1019.6	1016.6	1013.6
122.5°	1101.6	1099.7	1098.4	1097.2	1095.9	1094.7	1092.8	1090.3	1087.9	1085.4	1083.0
125°	1196.7	1196.0	1194.7	1193.3	1192.0	1190.7	1188.7	1186.0	1183.4	1180.7	1178.0
127.5°	1290.3	1289.3	1287.7	1286.1	1284.5	1282.9	1280.8	1278.1	1275.5	1272.8	1270.1
130°	1346.8	1345.5	1344.2	1342.8	1341.5	1340.2	1338.2	1335.5	1332.9	1330.2	1327.5
132.5°	1400.6	1399.3	1398.2	1397.2	1396.1	1395.1	1393.2	1390.5	1387.9	1385.2	1382.6
135°	1482.5	1481.5	1480.2	1478.9	1477.5	1476.2	1474.6	1472.6	1470.6	1468.6	1466.6
137.5°	1554.6	1553.0	1552.3	1551.5	1550.8	1550.1	1548.4	1545.9	1543.4	1540.9	1538.3
140°	1601.0	1599.6	1598.6	1597.6	1596.6	1595.6	1594.2	1592.2	1590.2	1588.2	1586.2
142.5°	1644.9	1643.9	1642.9	1641.9	1640.9	1639.9	1638.4	1636.4	1634.4	1632.4	1630.4
145°	1706.4	1705.8	1705.1	1704.4	1703.8	1703.1	1701.6	1699.3	1697.0	1694.6	1692.3
147.5°	1761.2	1760.5	1759.8	1759.2	1758.5	1757.8	1756.7	1755.2	1753.7	1752.2	1750.6
150°	1794.6	1794.0	1793.3	1792.7	1792.0	1791.3	1790.5	1789.5	1788.5	1787.5	1786.5
152.5°	1823.9	1822.7	1822.3	1821.9	1821.5	1821.1	1820.7	1820.2	1819.7	1819.3	1818.8
155°	1864.4	1862.7	1862.4	1862.1	1861.8	1861.4	1861.6	1862.3	1862.9	1863.6	1864.2
157.5°	1899.7	1897.7	1898.1	1898.4	1898.7	1899.1	1899.3	1899.3	1899.4	1899.5	1899.5
160°	1920.1	1918.1	1918.4	1918.7	1919.1	1919.4	1919.7	1920.1	1920.4	1920.7	1921.1
162.5°	1938.3	1936.0	1936.3	1936.7	1937.0	1937.3	1937.9	1938.8	1939.7	1940.5	1941.4
165°	1962.6	1959.9	1960.3	1960.6	1960.9	1961.3	1961.9	1962.9	1963.9	1964.9	1965.9
167.5°	1981.7	1979.1	1979.1	1979.1	1979.1	1979.1	1979.7	1981.1	1982.4	1983.7	1985.0
170°	1992.5	1989.8	1989.8	1989.8	1989.8	1989.8	1990.5	1991.8	1993.1	1994.5	1995.8
172.5°	1999.7	1997.0	1996.7	1996.5	1996.2	1995.9	1996.6	1998.2	1999.8	2001.4	2003.0
175°	2008.6	2006.3	2005.9	2005.6	2005.3	2004.9	2005.6	2007.3	2008.9	2010.6	2012.2
177.5°	2012.0	2009.9	2009.6	2009.3	2009.1	2008.8	2009.3	2010.7	2012.0	2013.3	2014.6
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



TEST NUMBER: P332446

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1229.7	1234.3	1240.2	1249.0	1255.7	1261.5	1262.8	1264.5	1268.7	1275.8	1281.2
5°	1237.7	1249.7	1269.1	1287.9	1308.4	1325.1	1340.8	1351.8	1362.3	1384.3	1402.1
7.5°	1235.2	1262.0	1292.3	1326.2	1360.4	1393.6	1424.4	1451.9	1479.3	1511.4	1547.9
10°	1233.5	1264.9	1305.7	1349.2	1396.8	1443.4	1488.5	1523.5	1564.4	1601.0	1647.6
12.5°	1225.5	1270.8	1319.6	1375.2	1433.7	1487.4	1546.7	1595.2	1641.9	1694.8	1749.0
15°	1215.2	1270.1	1331.9	1405.7	1494.7	1559.7	1620.4	1704.7	1762.3	1819.9	1897.3
17.5°	1196.2	1263.3	1340.5	1436.4	1510.7	1597.9	1689.3	1755.9	1833.5	1914.6	1984.8
20°	1181.1	1259.1	1345.5	1439.8	1534.5	1629.3	1717.8	1797.3	1877.5	1971.2	2028.8
22.5°	1166.1	1243.2	1333.0	1433.1	1534.9	1634.7	1734.9	1828.3	1918.5	2013.1	2086.6
25°	1134.0	1225.6	1323.0	1425.1	1525.6	1635.6	1754.9	1859.1	1970.6	2068.0	2137.7
27.5°	1101.5	1185.5	1282.5	1386.0	1497.8	1627.7	1768.1	1886.6	1998.3	2068.0	2089.9
30°	1072.2	1161.2	1250.2	1355.5	1476.4	1621.4	1770.6	1906.2	1997.9	2028.2	2005.7
32.5°	1042.5	1123.1	1211.3	1319.0	1447.5	1605.9	1774.0	1894.5	1949.7	1926.5	1834.8
35°	990.0	1062.8	1148.1	1256.0	1403.6	1597.4	1760.2	1841.8	1828.2	1697.3	1524.6
37.5°	933.9	993.2	1072.2	1185.0	1358.2	1563.3	1700.7	1712.7	1594.9	1394.0	1194.4
40°	889.5	942.9	1024.1	1141.9	1323.0	1529.8	1640.8	1592.1	1409.4	1185.8	1019.4
42.5°	846.4	891.4	969.6	1096.6	1289.5	1484.2	1551.6	1445.5	1234.7	1023.3	871.9
45°	773.3	815.7	894.2	1024.6	1220.9	1396.8	1387.9	1203.6	992.7	822.5	696.8
47.5°	704.0	741.0	814.7	947.8	1140.4	1265.9	1182.7	986.6	807.6	671.1	581.5
50°	655.0	691.6	764.9	896.3	1075.9	1167.5	1048.7	859.7	695.8	582.7	511.5
52.5°	608.1	643.9	710.9	838.9	998.0	1052.8	925.1	749.9	613.3	515.7	454.5
55°	542.4	569.6	629.8	752.3	871.2	883.8	754.4	607.8	495.3	427.2	385.3
57.5°	475.5	498.9	558.4	656.0	739.4	732.9	610.3	483.4	407.6	357.1	326.7
60°	431.9	455.0	507.3	591.1	653.9	631.9	519.4	417.3	352.3	315.2	291.1
62.5°	391.3	409.3	458.3	519.5	564.7	539.8	444.0	359.5	308.0	276.6	257.6
65°	332.5	347.1	386.4	418.3	443.4	419.4	339.8	281.1	244.0	222.0	208.9
67.5°	276.5	285.9	310.7	322.2	339.9	313.5	255.5	216.2	195.1	176.5	167.4
70°	241.4	248.2	261.3	270.7	275.4	248.2	205.2	176.4	158.6	145.5	139.8
72.5°	206.2	212.1	214.8	222.5	220.1	194.6	165.0	142.1	129.3	120.4	113.0
75°	157.6	160.2	157.6	154.4	147.6	129.8	109.4	97.9	88.5	84.3	81.7
77.5°	114.9	114.0	110.5	105.5	93.9	82.7	71.7	67.9	63.8	61.6	60.6
80°	88.5	86.4	83.2	75.4	65.4	57.6	55.0	52.4	50.8	48.2	47.6
82.5°	65.9	64.6	59.4	52.8	45.8	42.1	39.9	39.0	37.4	36.0	35.9
85°	35.1	33.5	27.7	24.1	23.0	22.0	21.5	21.5	19.4	18.8	18.8
87.5°	12.3	10.4	10.7	10.1	10.8	10.9	12.1	12.2	12.6	13.3	12.7
90°	4.8	8.1	11.5	14.8	18.6	22.9	27.2	31.6	35.9	37.2	38.5
92.5°	26.9	25.9	25.0	24.1	25.2	28.5	31.8	35.0	38.3	40.4	42.5
95°	77.6	64.0	50.3	36.7	31.7	35.4	39.0	42.7	46.3	48.7	51.0
97.5°	177.2	171.1	164.9	158.8	143.8	119.9	96.0	72.1	48.1	50.8	53.5
100°	259.3	265.9	272.6	279.2	256.6	204.8	153.0	101.2	49.3	52.0	54.6
102.5°	336.4	341.2	345.9	350.7	324.8	268.2	211.6	155.0	98.4	90.1	81.9
105°	449.2	452.8	456.5	460.1	447.0	417.1	387.2	357.3	327.4	268.6	209.8
107.5°	568.6	571.5	574.5	577.4	581.2	585.9	590.7	595.4	600.1	557.0	513.8
110°	648.5	651.1	653.8	656.5	659.6	663.3	666.9	670.6	674.2	663.3	652.3



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	724.8	727.2	729.6	731.9	735.0	738.6	742.3	745.9	749.6	749.8	750.0
115°	837.7	839.7	841.7	843.7	846.2	849.2	852.1	855.1	858.1	861.4	864.8
117.5°	947.9	950.3	952.8	955.3	957.3	958.8	960.3	961.8	963.4	966.0	968.7
120°	1016.6	1019.6	1022.6	1025.6	1027.6	1028.5	1029.5	1030.5	1031.5	1034.2	1036.9
122.5°	1085.4	1087.9	1090.3	1092.8	1094.7	1095.9	1097.2	1098.4	1099.7	1101.6	1103.4
125°	1180.7	1183.4	1186.0	1188.7	1190.7	1192.0	1193.3	1194.7	1196.0	1196.7	1197.3
127.5°	1272.8	1275.5	1278.1	1280.8	1282.9	1284.5	1286.1	1287.7	1289.3	1290.3	1291.4
130°	1330.2	1332.9	1335.5	1338.2	1340.2	1341.5	1342.8	1344.2	1345.5	1346.8	1348.1
132.5°	1385.2	1387.9	1390.5	1393.2	1395.1	1396.1	1397.2	1398.2	1399.3	1400.6	1402.0
135°	1468.6	1470.6	1472.6	1474.6	1476.2	1477.5	1478.9	1480.2	1481.5	1482.5	1483.5
137.5°	1540.9	1543.4	1545.9	1548.4	1550.1	1550.8	1551.5	1552.3	1553.0	1554.6	1556.2
140°	1588.2	1590.2	1592.2	1594.2	1595.6	1596.6	1597.6	1598.6	1599.6	1601.0	1602.3
142.5°	1632.4	1634.4	1636.4	1638.4	1639.9	1640.9	1641.9	1642.9	1643.9	1644.9	1646.0
145°	1694.6	1697.0	1699.3	1701.6	1703.1	1703.8	1704.4	1705.1	1705.8	1706.4	1707.1
147.5°	1752.2	1753.7	1755.2	1756.7	1757.8	1758.5	1759.2	1759.8	1760.5	1761.2	1761.8
150°	1787.5	1788.5	1789.5	1790.5	1791.3	1792.0	1792.7	1793.3	1794.0	1794.6	1795.3
152.5°	1819.3	1819.7	1820.2	1820.7	1821.1	1821.5	1821.9	1822.3	1822.7	1823.9	1825.1
155°	1863.6	1862.9	1862.3	1861.6	1861.4	1861.8	1862.1	1862.4	1862.7	1864.4	1866.1
157.5°	1899.5	1899.4	1899.3	1899.3	1899.1	1898.7	1898.4	1898.1	1897.7	1899.7	1901.7
160°	1920.7	1920.4	1920.1	1919.7	1919.4	1919.1	1918.7	1918.4	1918.1	1920.1	1922.1
162.5°	1940.5	1939.7	1938.8	1937.9	1937.3	1937.0	1936.7	1936.3	1936.0	1938.3	1940.5
165°	1964.9	1963.9	1962.9	1961.9	1961.3	1960.9	1960.6	1960.3	1959.9	1962.6	1965.2
167.5°	1983.7	1982.4	1981.1	1979.7	1979.1	1979.1	1979.1	1979.1	1979.1	1981.7	1984.4
170°	1994.5	1993.1	1991.8	1990.5	1989.8	1989.8	1989.8	1989.8	1989.8	1992.5	1995.1
172.5°	2001.4	1999.8	1998.2	1996.6	1995.9	1996.2	1996.5	1996.7	1997.0	1999.7	2002.3
175°	2010.6	2008.9	2007.3	2005.6	2004.9	2005.3	2005.6	2005.9	2006.3	2008.6	2010.9
177.5°	2013.3	2012.0	2010.7	2009.3	2008.8	2009.1	2009.3	2009.6	2009.9	2012.0	2014.1
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0	1223.0
2.5°	1290.0	1290.0	1291.7	1298.0	1298.8	1304.3	1302.6
5°	1417.8	1427.7	1431.4	1447.1	1456.5	1460.7	1452.3
7.5°	1574.0	1602.1	1615.4	1631.8	1646.4	1650.8	1639.3
10°	1687.9	1717.2	1741.9	1757.0	1771.2	1780.6	1792.6
12.5°	1798.1	1834.1	1857.5	1878.9	1893.5	1905.4	1907.4
15°	1917.8	1972.2	2013.6	2043.9	2059.1	2067.0	2063.8
17.5°	2038.5	2089.0	2118.4	2149.4	2170.4	2171.5	2172.1
20°	2106.8	2156.0	2190.0	2213.0	2236.6	2235.6	2240.8
22.5°	2152.4	2191.2	2217.2	2234.0	2242.1	2238.1	2239.1
25°	2173.8	2185.3	2180.6	2153.9	2147.1	2122.5	2126.7
27.5°	2063.6	2009.2	1952.8	1880.4	1823.2	1777.6	1779.9
30°	1914.1	1817.8	1707.8	1615.7	1533.0	1509.9	1460.7
32.5°	1705.1	1560.6	1431.8	1345.9	1274.9	1255.7	1212.8
35°	1350.8	1210.4	1078.0	998.4	967.0	923.0	922.5
37.5°	1049.9	926.4	856.3	796.6	765.3	738.7	736.1
40°	883.2	786.9	734.0	691.1	660.2	640.3	635.6
42.5°	766.8	688.9	639.4	612.8	589.0	578.7	571.1
45°	626.2	573.8	539.3	515.2	504.2	496.3	492.1
47.5°	523.8	488.7	465.1	449.1	440.2	431.9	434.1
50°	468.1	439.3	422.0	406.8	400.0	394.2	394.8
52.5°	423.2	397.4	383.4	372.5	364.0	359.9	357.9
55°	359.2	342.9	328.8	320.9	316.2	310.5	308.9
57.5°	306.4	293.8	282.3	273.4	272.2	266.7	267.4
60°	271.2	260.7	251.3	246.6	242.9	238.2	239.8
62.5°	242.3	233.5	224.9	221.0	217.4	213.9	214.7
65°	198.4	190.0	184.8	182.7	181.1	179.6	178.0
67.5°	158.1	153.0	149.7	145.2	142.0	141.5	139.9
70°	133.0	126.2	120.4	114.7	113.1	112.6	113.1
72.5°	106.6	102.3	100.7	97.9	97.6	96.2	97.2
75°	80.1	78.5	77.5	75.4	75.4	75.4	75.4
77.5°	59.1	58.1	57.5	57.1	56.5	55.8	55.7
80°	46.1	45.5	44.5	44.5	44.0	44.5	44.0
82.5°	34.8	34.7	33.6	33.6	33.1	32.8	33.1
85°	17.8	17.3	18.3	17.3	17.8	16.8	17.8
87.5°	13.0	13.3	13.0	13.2	12.9	13.9	13.2
90°	39.9	41.2	42.2	42.9	43.5	44.2	44.8
92.5°	44.7	46.8	48.0	48.4	48.8	49.2	49.6
95°	53.3	55.6	56.8	56.8	56.8	56.8	56.8
97.5°	56.1	58.8	60.3	60.6	60.9	61.3	61.6
100°	57.3	60.0	61.5	61.8	62.1	62.5	62.8
102.5°	73.7	65.4	61.6	62.2	62.8	63.4	64.0
105°	151.0	92.2	63.1	63.8	64.5	65.1	65.8
107.5°	470.7	427.6	383.9	339.6	295.2	250.9	206.6
110°	641.3	630.4	601.1	553.6	506.1	458.6	411.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	750.2	750.4	745.5	735.4	725.4	715.4	705.3
115°	868.1	871.4	873.7	875.1	876.4	877.7	879.1
117.5°	971.3	974.0	975.5	975.7	976.0	976.3	976.5
120°	1039.5	1042.2	1043.5	1043.5	1043.5	1043.5	1043.5
122.5°	1105.3	1107.2	1108.2	1108.5	1108.7	1109.0	1109.3
125°	1198.0	1198.6	1199.3	1200.0	1200.6	1201.3	1202.0
127.5°	1292.5	1293.5	1293.7	1293.1	1292.4	1291.7	1291.1
130°	1349.5	1350.8	1351.1	1350.5	1349.8	1349.1	1348.5
132.5°	1403.3	1404.6	1404.8	1403.9	1403.0	1402.0	1401.1
135°	1484.5	1485.5	1485.5	1484.5	1483.5	1482.5	1481.5
137.5°	1557.8	1559.4	1559.8	1559.2	1558.5	1557.8	1557.2
140°	1603.6	1604.9	1605.3	1604.6	1604.0	1603.3	1602.6
142.5°	1647.1	1648.1	1648.2	1647.3	1646.3	1645.4	1644.5
145°	1707.8	1708.4	1708.8	1708.8	1708.8	1708.8	1708.8
147.5°	1762.5	1763.2	1762.7	1761.2	1759.7	1758.1	1756.6
150°	1796.0	1796.6	1796.5	1795.5	1794.5	1793.5	1792.5
152.5°	1826.3	1827.5	1827.3	1825.8	1824.2	1822.7	1821.2
155°	1867.7	1869.4	1869.2	1867.2	1865.2	1863.2	1861.3
157.5°	1903.7	1905.7	1905.4	1902.8	1900.2	1897.6	1895.0
160°	1924.0	1926.0	1925.9	1923.5	1921.2	1918.9	1916.6
162.5°	1942.8	1945.0	1945.1	1943.1	1941.0	1939.0	1936.9
165°	1967.9	1970.6	1970.7	1968.4	1966.1	1963.7	1961.4
167.5°	1987.0	1989.7	1989.7	1987.0	1984.4	1981.7	1979.1
170°	1997.8	2000.5	2000.5	1997.8	1995.1	1992.5	1989.8
172.5°	2005.0	2007.6	2007.5	2004.6	2001.7	1998.7	1995.8
175°	2013.2	2015.6	2015.4	2012.7	2010.1	2007.4	2004.8
177.5°	2016.2	2018.4	2018.1	2015.4	2012.8	2010.1	2007.5
180°	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2	2012.2

(END OF REPORT)