

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: P332443

Luminaire Tested: **S123RDIW-S775D1320U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332443
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-S775D1320U835-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1320 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624.5 lumens
Efficiency: N/A
Efficacy: 124.2 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: General Diffuse

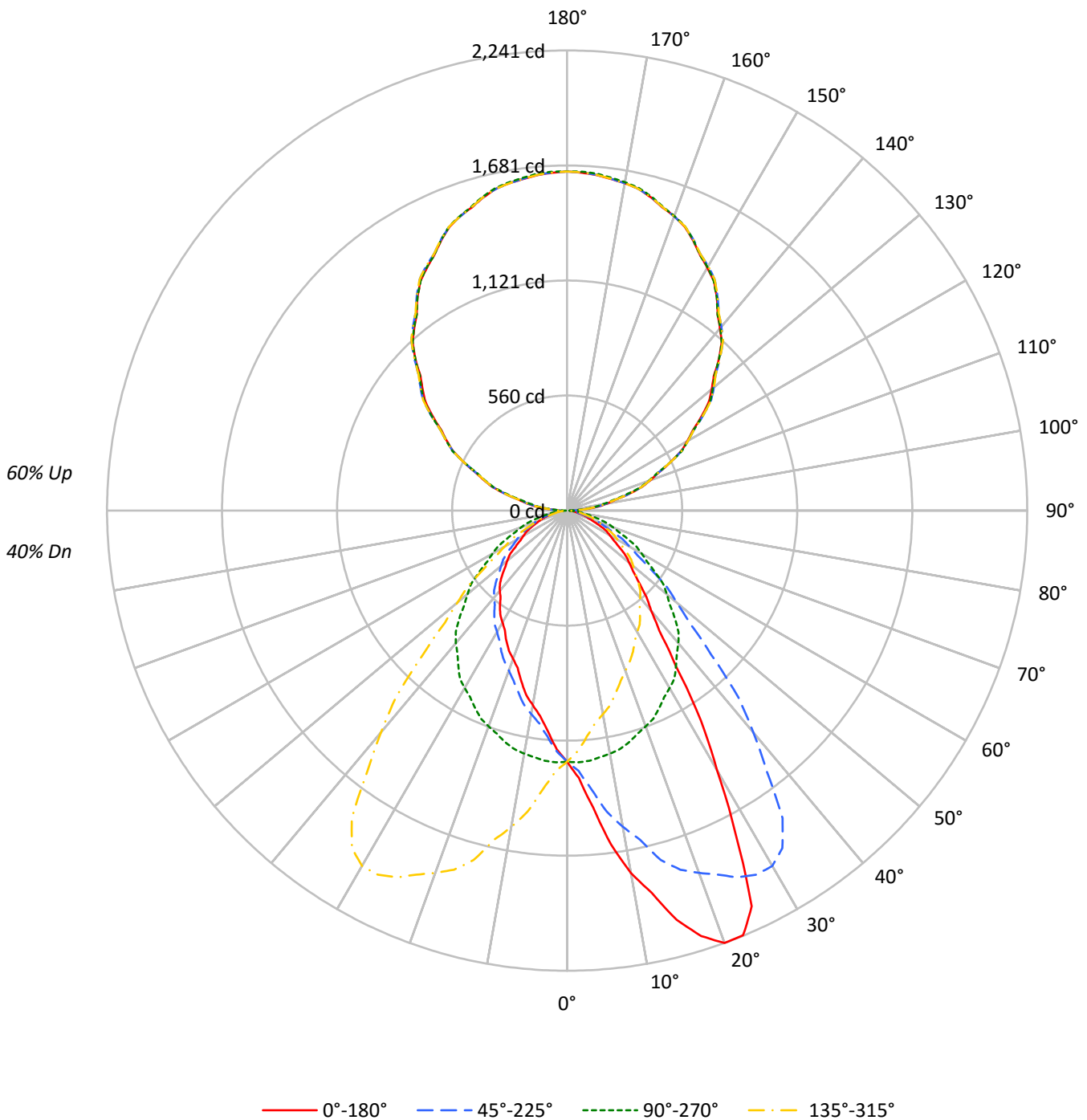
Input Watts (W): 61.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40								
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35								
2	88	81	75	70	80	74	69	65	61	57	54	49	46	44	38	36	35	30								
3	80	71	64	59	73	65	59	55	54	50	46	44	41	38	34	32	30	26								
4	74	63	56	50	67	58	52	47	48	43	40	39	36	33	30	28	26	22								
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20								
6	62	51	43	38	57	47	40	35	39	34	30	32	28	25	25	23	21	18								
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	23	20	18	16								
8	54	42	34	29	49	39	32	27	32	27	24	27	23	20	21	19	17	14								
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13								
10	47	35	28	23	43	32	26	22	27	23	19	23	19	16	18	16	14	12								

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	1.6
10°-20°	375.7	4.9
20°-30°	590.3	7.7
30°-40°	615.9	8.1
40°-50°	527.1	6.9
50°-60°	401.7	5.3
60°-70°	257.5	3.4
70°-80°	123.9	1.6
80°-90°	37.7	0.5
90°-100°	107.6	1.4
100°-110°	321.9	4.2
110°-120°	547.5	7.2
120°-130°	720.2	9.4
130°-140°	809.5	10.6
140°-150°	795.7	10.4
150°-160°	669.9	8.8
160°-170°	445.9	5.8
170°-180°	156.2	2.0
0°-30°	1086.3	14.2
0°-40°	1702.2	22.3
0°-60°	2631.0	34.5
0°-90°	3050.0	40.0
90°-120°	977.1	12.8
90°-150°	3302.5	43.3
90°-180°	4574.0	60.0
0°-180°	7624.5	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	21
90°	39	1	39	1	39	19
95°	101	76	101	76	101	104
105°	309	292	309	292	309	328
115°	552	551	552	551	552	547
125°	798	807	798	807	798	713
135°	1045	1047	1045	1047	1045	804
145°	1270	1270	1270	1270	1270	793
155°	1451	1454	1451	1454	1451	668
165°	1578	1584	1578	1584	1578	445
175°	1641	1647	1641	1647	1641	156
180°	1651	1651	1651	1651	1651	



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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°	12.0	12.7	11.7	12.0	11.9	12.2	11.9	11.7	12.3	11.7	11.3
90°	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4	32.3	31.1	27.4
92.5°	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6	50.7	49.8	47.7
95°	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3	97.1	96.0	93.7
97.5°	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8	151.5	150.2	148.5
100°	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4	191.5	190.7	189.2
102.5°	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0	237.2	236.3	234.4
105°	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1	306.1	306.1	303.5
107.5°	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8	378.9	377.9	376.9
110°	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0	427.9	426.7	426.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2	476.9	475.5	475.4
115°	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1	552.8	552.5	553.1
117.5°	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7	628.7	628.8	629.5
120°	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0	679.3	679.6	681.1
122.5°	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0	730.7	731.5	732.2
125°	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7	806.9	808.0	808.6
127.5°	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5	882.1	883.8	884.4
130°	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2	931.4	932.5	933.4
132.5°	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5	979.9	981.3	981.9
135°	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8	1052.0	1053.1	1053.4
137.5°	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5	1122.7	1124.0	1123.2
140°	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3
142.5°	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6	1211.9	1212.2	1211.6
145°	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6	1275.9	1276.2	1275.4
147.5°	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5	1373.5	1373.5	1372.9
152.5°	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6	1407.2	1406.7	1406.4
155°	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5	1456.4	1455.2	1454.9
157.5°	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4	1499.2	1498.0	1497.8
160°	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8	1525.4	1523.9	1523.9
162.5°	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7	1550.3	1548.8	1548.6
165°	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2	1581.4	1579.7	1579.7
167.5°	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1	1604.9
170°	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6	1618.6
172.5°	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6	1631.8	1630.0	1630.0
175°	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4	1643.7	1642.0	1642.0
177.5°	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7	1649.3	1647.9	1647.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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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°	11.4	10.3	10.3	9.7	10.4	10.2	12.1	13.7	14.7	13.6	14.1
90°	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3	4.2	7.1	9.9
92.5°	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4	33.3	35.3	37.3
95°	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5	78.5	80.6	82.6
97.5°	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9	137.4	138.9	140.4
100°	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4	178.1	179.8	181.6
102.5°	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1	224.1	225.2	226.2
105°	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8	292.4	293.0	293.5
107.5°	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7	372.1	372.4	372.8
110°	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5	422.1	422.7	423.2



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4	473.7	474.1	474.4
115°	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2	552.1	552.9	553.8
117.5°	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6	630.1	630.7	631.3
120°	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3	680.0	681.8	683.5
122.5°	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2	730.4	731.7	733.0
125°	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7	807.6	808.4	809.3
127.5°	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3	880.2	882.0	883.8
130°	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0	928.3	930.7	933.0
132.5°	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8	976.1	978.4	980.7
135°	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7	1048.4	1050.1	1051.8
137.5°	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1	1115.5	1117.0	1118.4
140°	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8	1162.2	1163.7	1165.1
142.5°	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3	1204.8	1206.2	1207.7
145°	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7	1270.3	1270.9	1271.5
147.5°	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8	1328.9	1329.9	1331.0
150°	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3	1368.9	1369.5	1370.0
152.5°	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5	1402.3	1403.1	1403.9
155°	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5	1498.2	1497.8	1497.5
160°	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5	1526.0	1525.4	1524.8
162.5°	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4	1550.6	1549.8	1549.0
165°	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6	1582.7	1581.9	1581.0
167.5°	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3	1608.1	1607.0	1605.8
170°	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8	1622.7	1621.5	1620.4
172.5°	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2	1634.1	1632.9	1631.8
175°	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2	1646.0	1644.9	1643.7
177.5°	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1	1651.2	1650.2	1649.3
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332443

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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°	14.3	16.2	17.4	18.5	19.7	20.0	20.7	20.9	21.6	21.8	22.0
90°	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4	34.6	35.7	36.6
92.5°	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6	52.6	53.5	53.8
95°	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3	99.4	100.6	101.2
97.5°	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8	154.2	155.5	156.1
100°	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4	193.2	194.1	194.8
102.5°	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0	238.9	239.8	240.1
105°	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1	306.1	306.1	306.4
107.5°	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8	380.7	381.6	381.9
110°	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0	430.2	431.3	431.6



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2	479.6	481.0	481.6
115°	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1	553.4	553.7	553.7
117.5°	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7	628.6	628.5	628.1
120°	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0	678.8	678.5	678.0
122.5°	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0	729.2	728.5	727.7
125°	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7	804.6	803.4	802.3
127.5°	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5	878.9	877.3	875.8
130°	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2	929.1	927.9	926.3
132.5°	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5	977.1	975.8	974.3
135°	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8	1049.7	1048.5	1047.7
137.5°	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5	1120.3	1119.1	1118.0
140°	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.3
142.5°	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6	1211.3	1211.0	1210.1
145°	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6	1275.4	1275.1	1274.4
147.5°	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1	1336.1	1336.1	1335.3
150°	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5	1373.5	1373.5	1372.6
152.5°	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6	1408.1	1408.5	1408.0
155°	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5	1458.7	1459.8	1459.4
157.5°	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4	1501.6	1502.9	1502.6
160°	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8	1528.3	1529.7	1529.9
162.5°	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7	1553.2	1554.6	1554.4
165°	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2	1584.9	1586.6	1586.5
167.5°	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3
170°	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7
172.5°	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6	1635.4	1637.2	1637.1
175°	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4	1647.2	1648.9	1648.7
177.5°	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7	1652.1	1653.5	1653.4
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332443

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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°	22.9	22.2	22.3	22.9	22.3	22.2	22.9	22.0	21.8	21.6	20.9
90°	37.2	37.8	38.3	38.9	38.3	37.8	37.2	36.6	35.7	34.6	33.4
92.5°	53.4	53.1	52.7	52.4	52.7	53.1	53.4	53.8	53.5	52.6	51.6
95°	101.2	101.2	101.2	101.2	101.2	101.2	101.2	101.2	100.6	99.4	98.3
97.5°	156.0	155.9	155.8	155.6	155.8	155.9	156.0	156.1	155.5	154.2	152.8
100°	195.4	196.0	196.6	197.1	196.6	196.0	195.4	194.8	194.1	193.2	192.4
102.5°	240.0	239.9	239.8	239.7	239.8	239.9	240.0	240.1	239.8	238.9	238.0
105°	307.0	307.5	308.1	308.7	308.1	307.5	307.0	306.4	306.1	306.1	306.1
107.5°	381.6	381.2	380.9	380.5	380.9	381.2	381.6	381.9	381.6	380.7	379.8
110°	431.0	430.5	429.9	429.3	429.9	430.5	431.0	431.6	431.3	430.2	429.0



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	481.5	481.4	481.3	481.2	481.3	481.4	481.5	481.6	481.0	479.6	478.2
115°	553.4	553.1	552.8	552.5	552.8	553.1	553.4	553.7	553.7	553.4	553.1
117.5°	627.3	626.5	625.7	624.9	625.7	626.5	627.3	628.1	628.5	628.6	628.7
120°	677.5	676.9	676.3	675.7	676.3	676.9	677.5	678.0	678.5	678.8	679.0
122.5°	726.9	726.1	725.3	724.5	725.3	726.1	726.9	727.7	728.5	729.2	730.0
125°	801.1	799.9	798.8	797.6	798.8	799.9	801.1	802.3	803.4	804.6	805.7
127.5°	874.5	873.2	871.9	870.5	871.9	873.2	874.5	875.8	877.3	878.9	880.5
130°	924.3	922.3	920.3	918.3	920.3	922.3	924.3	926.3	927.9	929.1	930.2
132.5°	972.7	971.2	969.6	968.1	969.6	971.2	972.7	974.3	975.8	977.1	978.5
135°	1047.1	1046.5	1045.9	1045.4	1045.9	1046.5	1047.1	1047.7	1048.5	1049.7	1050.8
137.5°	1116.9	1115.8	1114.7	1113.6	1114.7	1115.8	1116.9	1118.0	1119.1	1120.3	1121.5
140°	1164.3	1162.2	1160.2	1158.2	1160.2	1162.2	1164.3	1166.3	1167.4	1167.7	1168.0
142.5°	1208.5	1207.0	1205.4	1203.9	1205.4	1207.0	1208.5	1210.1	1211.0	1211.3	1211.6
145°	1273.2	1272.0	1270.9	1269.7	1270.9	1272.0	1273.2	1274.4	1275.1	1275.4	1275.6
147.5°	1333.6	1331.8	1330.1	1328.4	1330.1	1331.8	1333.6	1335.3	1336.1	1336.1	1336.1
150°	1370.9	1369.2	1367.4	1365.7	1367.4	1369.2	1370.9	1372.6	1373.5	1373.5	1373.5
152.5°	1406.5	1405.0	1403.5	1402.0	1403.5	1405.0	1406.5	1408.0	1408.5	1408.1	1407.6
155°	1457.4	1455.4	1453.3	1451.3	1453.3	1455.4	1457.4	1459.4	1459.8	1458.7	1457.5
157.5°	1501.0	1499.4	1497.8	1496.2	1497.8	1499.4	1501.0	1502.6	1502.9	1501.6	1500.4
160°	1528.7	1527.6	1526.4	1525.2	1526.4	1527.6	1528.7	1529.9	1529.7	1528.3	1526.8
162.5°	1552.6	1550.7	1548.9	1547.0	1548.9	1550.7	1552.6	1554.4	1554.6	1553.2	1551.7
165°	1584.5	1582.5	1580.4	1578.4	1580.4	1582.5	1584.5	1586.5	1586.6	1584.9	1583.2
167.5°	1610.5	1608.7	1606.9	1605.1	1606.9	1608.7	1610.5	1612.3	1612.3	1610.5	1608.7
170°	1624.7	1622.7	1620.6	1618.6	1620.6	1622.7	1624.7	1626.7	1626.7	1624.7	1622.7
172.5°	1635.1	1633.0	1631.0	1629.0	1631.0	1633.0	1635.1	1637.1	1637.2	1635.4	1633.6
175°	1646.7	1644.7	1642.7	1640.7	1642.7	1644.7	1646.7	1648.7	1648.9	1647.2	1645.4
177.5°	1651.7	1650.1	1648.5	1646.9	1648.5	1650.1	1651.7	1653.4	1653.5	1652.1	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

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°	20.7	20.0	19.7	18.5	17.4	16.2	14.3	14.1	13.6	14.7	13.7
90°	32.3	31.1	27.4	23.6	19.9	16.1	12.8	9.9	7.1	4.2	1.3
92.5°	50.7	49.8	47.7	45.5	43.4	41.3	39.2	37.3	35.3	33.3	31.4
95°	97.1	96.0	93.7	91.4	89.1	86.8	84.6	82.6	80.6	78.5	76.5
97.5°	151.5	150.2	148.5	146.8	145.2	143.5	141.9	140.4	138.9	137.4	135.9
100°	191.5	190.7	189.2	187.8	186.3	184.9	183.3	181.6	179.8	178.1	176.4
102.5°	237.2	236.3	234.4	232.5	230.6	228.7	227.2	226.2	225.2	224.1	223.1
105°	306.1	306.1	303.5	300.9	298.3	295.7	294.1	293.5	293.0	292.4	291.8
107.5°	378.9	377.9	376.9	375.9	374.8	373.8	373.1	372.8	372.4	372.1	371.7
110°	427.9	426.7	426.1	425.6	425.0	424.4	423.8	423.2	422.7	422.1	421.5



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	476.9	475.5	475.4	475.2	475.1	475.0	474.8	474.4	474.1	473.7	473.4
115°	552.8	552.5	553.1	553.7	554.2	554.8	554.7	553.8	552.9	552.1	551.2
117.5°	628.7	628.8	629.5	630.3	631.0	631.8	631.9	631.3	630.7	630.1	629.6
120°	679.3	679.6	681.1	682.5	683.9	685.4	685.2	683.5	681.8	680.0	678.3
122.5°	730.7	731.5	732.2	733.0	733.7	734.5	734.2	733.0	731.7	730.4	729.2
125°	806.9	808.0	808.6	809.2	809.7	810.3	810.2	809.3	808.4	807.6	806.7
127.5°	882.1	883.8	884.4	885.0	885.7	886.3	885.7	883.8	882.0	880.2	878.3
130°	931.4	932.5	933.4	934.3	935.1	936.0	935.3	933.0	930.7	928.3	926.0
132.5°	979.9	981.3	981.9	982.6	983.2	983.8	983.0	980.7	978.4	976.1	973.8
135°	1052.0	1053.1	1053.4	1053.7	1054.0	1054.3	1053.6	1051.8	1050.1	1048.4	1046.7
137.5°	1122.7	1124.0	1123.2	1122.5	1121.7	1121.0	1119.9	1118.4	1117.0	1115.5	1114.1
140°	1168.3	1168.6	1168.3	1168.0	1167.7	1167.4	1166.6	1165.1	1163.7	1162.2	1160.8
142.5°	1211.9	1212.2	1211.6	1211.1	1210.6	1210.1	1209.1	1207.7	1206.2	1204.8	1203.3
145°	1275.9	1276.2	1275.4	1274.5	1273.6	1272.8	1272.0	1271.5	1270.9	1270.3	1269.7
147.5°	1336.1	1336.1	1335.3	1334.5	1333.7	1332.9	1332.0	1331.0	1329.9	1328.9	1327.8
150°	1373.5	1373.5	1372.9	1372.3	1371.8	1371.2	1370.6	1370.0	1369.5	1368.9	1368.3
152.5°	1407.2	1406.7	1406.4	1406.0	1405.7	1405.3	1404.7	1403.9	1403.1	1402.3	1401.5
155°	1456.4	1455.2	1454.9	1454.6	1454.3	1454.1	1453.9	1453.9	1453.9	1453.9	1453.9
157.5°	1499.2	1498.0	1497.8	1497.5	1497.3	1497.1	1497.1	1497.5	1497.8	1498.2	1498.5
160°	1525.4	1523.9	1523.9	1523.9	1523.9	1523.9	1524.2	1524.8	1525.4	1526.0	1526.5
162.5°	1550.3	1548.8	1548.6	1548.4	1548.2	1547.9	1548.2	1549.0	1549.8	1550.6	1551.4
165°	1581.4	1579.7	1579.7	1579.7	1579.7	1579.7	1580.2	1581.0	1581.9	1582.7	1583.6
167.5°	1606.9	1605.1	1604.9	1604.7	1604.4	1604.2	1604.7	1605.8	1607.0	1608.1	1609.3
170°	1620.6	1618.6	1618.6	1618.6	1618.6	1618.6	1619.2	1620.4	1621.5	1622.7	1623.8
172.5°	1631.8	1630.0	1630.0	1630.0	1630.0	1630.0	1630.6	1631.8	1632.9	1634.1	1635.2
175°	1643.7	1642.0	1642.0	1642.0	1642.0	1642.0	1642.5	1643.7	1644.9	1646.0	1647.2
177.5°	1649.3	1647.9	1647.9	1647.9	1647.9	1647.9	1648.4	1649.3	1650.2	1651.2	1652.1
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



TEST NUMBER: P332443

CATALOG NUMBER: S123RDIW-S775D1320U835-4F0-1E-UDD-A1

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°	12.1	10.2	10.4	9.7	10.3	10.3	11.4	11.3	11.7	12.3	11.7
90°	4.2	7.1	9.9	12.8	16.1	19.9	23.6	27.4	31.1	32.3	33.4
92.5°	33.3	35.3	37.3	39.2	41.3	43.4	45.5	47.7	49.8	50.7	51.6
95°	78.5	80.6	82.6	84.6	86.8	89.1	91.4	93.7	96.0	97.1	98.3
97.5°	137.4	138.9	140.4	141.9	143.5	145.2	146.8	148.5	150.2	151.5	152.8
100°	178.1	179.8	181.6	183.3	184.9	186.3	187.8	189.2	190.7	191.5	192.4
102.5°	224.1	225.2	226.2	227.2	228.7	230.6	232.5	234.4	236.3	237.2	238.0
105°	292.4	293.0	293.5	294.1	295.7	298.3	300.9	303.5	306.1	306.1	306.1
107.5°	372.1	372.4	372.8	373.1	373.8	374.8	375.9	376.9	377.9	378.9	379.8
110°	422.1	422.7	423.2	423.8	424.4	425.0	425.6	426.1	426.7	427.9	429.0



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	473.7	474.1	474.4	474.8	475.0	475.1	475.2	475.4	475.5	476.9	478.2
115°	552.1	552.9	553.8	554.7	554.8	554.2	553.7	553.1	552.5	552.8	553.1
117.5°	630.1	630.7	631.3	631.9	631.8	631.0	630.3	629.5	628.8	628.7	628.7
120°	680.0	681.8	683.5	685.2	685.4	683.9	682.5	681.1	679.6	679.3	679.0
122.5°	730.4	731.7	733.0	734.2	734.5	733.7	733.0	732.2	731.5	730.7	730.0
125°	807.6	808.4	809.3	810.2	810.3	809.7	809.2	808.6	808.0	806.9	805.7
127.5°	880.2	882.0	883.8	885.7	886.3	885.7	885.0	884.4	883.8	882.1	880.5
130°	928.3	930.7	933.0	935.3	936.0	935.1	934.3	933.4	932.5	931.4	930.2
132.5°	976.1	978.4	980.7	983.0	983.8	983.2	982.6	981.9	981.3	979.9	978.5
135°	1048.4	1050.1	1051.8	1053.6	1054.3	1054.0	1053.7	1053.4	1053.1	1052.0	1050.8
137.5°	1115.5	1117.0	1118.4	1119.9	1121.0	1121.7	1122.5	1123.2	1124.0	1122.7	1121.5
140°	1162.2	1163.7	1165.1	1166.6	1167.4	1167.7	1168.0	1168.3	1168.6	1168.3	1168.0
142.5°	1204.8	1206.2	1207.7	1209.1	1210.1	1210.6	1211.1	1211.6	1212.2	1211.9	1211.6
145°	1270.3	1270.9	1271.5	1272.0	1272.8	1273.6	1274.5	1275.4	1276.2	1275.9	1275.6
147.5°	1328.9	1329.9	1331.0	1332.0	1332.9	1333.7	1334.5	1335.3	1336.1	1336.1	1336.1
150°	1368.9	1369.5	1370.0	1370.6	1371.2	1371.8	1372.3	1372.9	1373.5	1373.5	1373.5
152.5°	1402.3	1403.1	1403.9	1404.7	1405.3	1405.7	1406.0	1406.4	1406.7	1407.2	1407.6
155°	1453.9	1453.9	1453.9	1453.9	1454.1	1454.3	1454.6	1454.9	1455.2	1456.4	1457.5
157.5°	1498.2	1497.8	1497.5	1497.1	1497.1	1497.3	1497.5	1497.8	1498.0	1499.2	1500.4
160°	1526.0	1525.4	1524.8	1524.2	1523.9	1523.9	1523.9	1523.9	1523.9	1525.4	1526.8
162.5°	1550.6	1549.8	1549.0	1548.2	1547.9	1548.2	1548.4	1548.6	1548.8	1550.3	1551.7
165°	1582.7	1581.9	1581.0	1580.2	1579.7	1579.7	1579.7	1579.7	1579.7	1581.4	1583.2
167.5°	1608.1	1607.0	1605.8	1604.7	1604.2	1604.4	1604.7	1604.9	1605.1	1606.9	1608.7
170°	1622.7	1621.5	1620.4	1619.2	1618.6	1618.6	1618.6	1618.6	1618.6	1620.6	1622.7
172.5°	1634.1	1632.9	1631.8	1630.6	1630.0	1630.0	1630.0	1630.0	1630.0	1631.8	1633.6
175°	1646.0	1644.9	1643.7	1642.5	1642.0	1642.0	1642.0	1642.0	1642.0	1643.7	1645.4
177.5°	1651.2	1650.2	1649.3	1648.4	1647.9	1647.9	1647.9	1647.9	1647.9	1649.3	1650.7
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1



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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°	11.9	12.2	11.9	12.0	11.7	12.7	12.0
90°	34.6	35.7	36.6	37.2	37.8	38.3	38.9
92.5°	52.6	53.5	53.8	53.4	53.1	52.7	52.4
95°	99.4	100.6	101.2	101.2	101.2	101.2	101.2
97.5°	154.2	155.5	156.1	156.0	155.9	155.8	155.6
100°	193.2	194.1	194.8	195.4	196.0	196.6	197.1
102.5°	238.9	239.8	240.1	240.0	239.9	239.8	239.7
105°	306.1	306.1	306.4	307.0	307.5	308.1	308.7
107.5°	380.7	381.6	381.9	381.6	381.2	380.9	380.5
110°	430.2	431.3	431.6	431.0	430.5	429.9	429.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	479.6	481.0	481.6	481.5	481.4	481.3	481.2
115°	553.4	553.7	553.7	553.4	553.1	552.8	552.5
117.5°	628.6	628.5	628.1	627.3	626.5	625.7	624.9
120°	678.8	678.5	678.0	677.5	676.9	676.3	675.7
122.5°	729.2	728.5	727.7	726.9	726.1	725.3	724.5
125°	804.6	803.4	802.3	801.1	799.9	798.8	797.6
127.5°	878.9	877.3	875.8	874.5	873.2	871.9	870.5
130°	929.1	927.9	926.3	924.3	922.3	920.3	918.3
132.5°	977.1	975.8	974.3	972.7	971.2	969.6	968.1
135°	1049.7	1048.5	1047.7	1047.1	1046.5	1045.9	1045.4
137.5°	1120.3	1119.1	1118.0	1116.9	1115.8	1114.7	1113.6
140°	1167.7	1167.4	1166.3	1164.3	1162.2	1160.2	1158.2
142.5°	1211.3	1211.0	1210.1	1208.5	1207.0	1205.4	1203.9
145°	1275.4	1275.1	1274.4	1273.2	1272.0	1270.9	1269.7
147.5°	1336.1	1336.1	1335.3	1333.6	1331.8	1330.1	1328.4
150°	1373.5	1373.5	1372.6	1370.9	1369.2	1367.4	1365.7
152.5°	1408.1	1408.5	1408.0	1406.5	1405.0	1403.5	1402.0
155°	1458.7	1459.8	1459.4	1457.4	1455.4	1453.3	1451.3
157.5°	1501.6	1502.9	1502.6	1501.0	1499.4	1497.8	1496.2
160°	1528.3	1529.7	1529.9	1528.7	1527.6	1526.4	1525.2
162.5°	1553.2	1554.6	1554.4	1552.6	1550.7	1548.9	1547.0
165°	1584.9	1586.6	1586.5	1584.5	1582.5	1580.4	1578.4
167.5°	1610.5	1612.3	1612.3	1610.5	1608.7	1606.9	1605.1
170°	1624.7	1626.7	1626.7	1624.7	1622.7	1620.6	1618.6
172.5°	1635.4	1637.2	1637.1	1635.1	1633.0	1631.0	1629.0
175°	1647.2	1648.9	1648.7	1646.7	1644.7	1642.7	1640.7
177.5°	1652.1	1653.5	1653.4	1651.7	1650.1	1648.5	1646.9
180°	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1	1651.1

(END OF REPORT)