

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: P332438

Luminaire Tested: **S123RDIW-S775D1030U835-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332438  
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-S775D1030U835-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 775 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

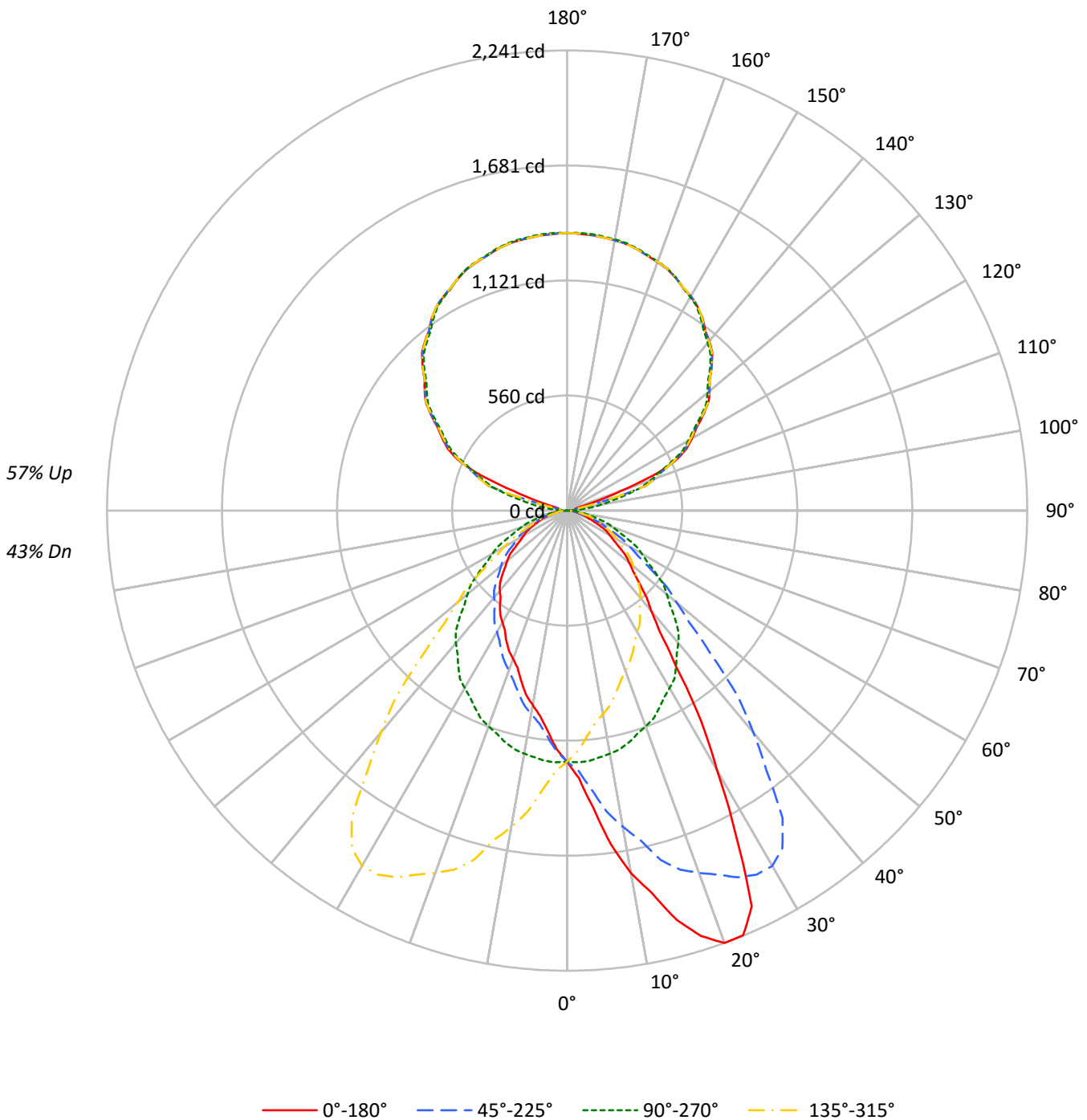
Lumens per Lamp: N/A  
Luminaire Lumens: 7171.6 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse  
  
Input Watts (W): 52.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43					43			
1	97	93	89	86	88	85	82	79	70	68	66	57	55	54	44	43	43	37					37			
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	40	38	37	32					32			
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27					27			
4	74	64	56	51	68	59	52	47	49	44	41	40	37	34	32	30	28	24					24			
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21					21			
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19					19			
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	22	19	17					17			
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	18	15					15			
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14					14			
10	47	35	28	24	43	33	27	22	28	23	20	24	20	17	19	16	14	13					13			

**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	1.7
10°-20°	375.7	5.2
20°-30°	590.3	8.2
30°-40°	615.9	8.6
40°-50°	527.1	7.3
50°-60°	401.7	5.6
60°-70°	257.5	3.6
70°-80°	123.9	1.7
80°-90°	36.6	0.5
90°-100°	49.2	0.7
100°-110°	234.3	3.3
110°-120°	562.7	7.8
120°-130°	716.5	10.0
130°-140°	765.6	10.7
140°-150°	715.9	10.0
150°-160°	577.5	8.1
160°-170°	372.7	5.2
170°-180°	128.4	1.8
0°-30°	1086.3	15.1
0°-40°	1702.2	23.7
0°-60°	2631.0	36.7
0°-90°	3048.9	42.5
90°-120°	846.1	11.8
90°-150°	3044.1	42.4
90°-180°	4123.0	57.5
0°-180°	7171.6	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°	30	1	30	1	30	14
95°	38	61	38	61	38	32
105°	44	299	44	299	44	101
115°	591	562	591	562	591	546
125°	808	792	808	792	808	721
135°	995	985	995	985	995	767
145°	1148	1137	1148	1137	1148	717
155°	1250	1252	1250	1252	1250	577
165°	1318	1321	1318	1321	1318	372
175°	1347	1352	1347	1352	1347	128
180°	1352	1352	1352	1352	1352	



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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°	10.2	11.0	10.0	10.4	10.3	10.6	10.4	10.2	10.9	10.3	10.1
90°	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9	25.0	24.1	21.2
92.5°	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6	27.1	25.7	23.5
95°	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3	32.7	31.1	28.7
97.5°	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9	34.1	32.3	48.4
100°	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7	34.9	33.1	68.0
102.5°	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0	60.6	66.1	104.1
105°	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0	180.5	220.0	240.1
107.5°	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2	374.2	403.2	400.0
110°	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3	445.6	453.0	450.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9	503.7	503.6	501.2
115°	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0	578.8	576.5	574.5
117.5°	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8	649.0	647.2	646.2
120°	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6	694.8	693.0	692.4
122.5°	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3	740.1	738.8	738.0
125°	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4	804.0	803.5	802.6
127.5°	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6	866.9	866.2	865.1
130°	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8	904.9	904.0	903.1
132.5°	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9	941.0	940.1	939.4
135°	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7	996.0	995.4	994.5
137.5°	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5	1044.4	1043.4	1042.9
140°	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5	1075.6	1074.7	1074.0
142.5°	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9	1105.2	1104.4	1103.8
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9	1146.5	1146.0	1145.6
147.5°	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7	1183.2	1182.8	1182.3
150°	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2	1205.7	1205.3	1204.8
152.5°	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2	1225.4	1224.6	1224.3
155°	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7	1252.6	1251.5	1251.3
157.5°	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7	1276.3	1275.0	1275.2
160°	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3	1290.0	1288.7	1288.9
162.5°	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7	1302.2	1300.7	1300.9
165°	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3	1318.6	1316.8	1317.0
167.5°	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6	1329.6
170°	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9	1336.9
172.5°	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3	1343.5	1341.7	1341.5
175°	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0	1349.5	1347.9	1347.7
177.5°	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2	1351.8	1350.3	1350.1
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



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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°	10.4	9.4	9.6	9.1	9.9	9.9	12.0	13.6	14.5	13.2	13.7
90°	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0	3.2	5.5	7.7
92.5°	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7	18.1	17.4	16.8
95°	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3	52.1	43.0	33.8
97.5°	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1	119.0	114.9	110.8
100°	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7	174.2	178.7	183.1
102.5°	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8	226.0	229.2	232.4
105°	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3	301.8	304.2	306.7
107.5°	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1	382.0	384.0	386.0
110°	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9	435.7	437.5	439.3





TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3	486.9	488.5	490.2
115°	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5	562.8	564.1	565.5
117.5°	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2	636.8	638.5	640.1
120°	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0	683.0	685.0	687.0
122.5°	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6	729.2	730.9	732.5
125°	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5	793.3	795.0	796.8
127.5°	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3	855.1	856.9	858.7
130°	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9	893.7	895.5	897.3
132.5°	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9	930.7	932.4	934.2
135°	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3	986.7	988.0	989.3
137.5°	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5	1035.2	1036.9	1038.6
140°	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7	1067.0	1068.4	1069.7
142.5°	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4	1096.7	1098.1	1099.4
145°	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0	1138.5	1140.1	1141.7
147.5°	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2	1177.2	1178.2	1179.2
150°	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3	1200.9	1201.6	1202.3
152.5°	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0	1222.3	1222.6	1222.9
155°	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5	1252.0	1251.6	1251.2
157.5°	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2	1276.2	1276.1	1276.1
160°	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7	1290.4	1290.2	1290.0
162.5°	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3	1303.7	1303.2	1302.6
165°	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8	1320.1	1319.5	1318.8
167.5°	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6	1332.8	1331.9	1331.0
170°	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9	1340.0	1339.1	1338.2
172.5°	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7	1344.6	1343.6	1342.5
175°	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9	1350.8	1349.7	1348.6
177.5°	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5	1352.6	1351.8	1350.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A

**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°	13.7	15.5	16.5	17.5	18.5	18.6	19.2	19.4	20.0	20.2	20.3
90°	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9	26.8	27.7	28.3
92.5°	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6	30.0	31.4	32.3
95°	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3	35.8	37.4	38.2
97.5°	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9	37.7	39.5	40.5
100°	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7	38.5	40.3	41.3
102.5°	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0	49.5	43.9	41.4
105°	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0	101.4	61.9	42.4
107.5°	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2	316.3	287.3	257.9
110°	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3	430.9	423.5	403.9



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9	504.0	504.1	500.8
115°	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0	583.2	585.5	587.0
117.5°	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8	652.6	654.4	655.4
120°	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6	698.4	700.2	701.1
122.5°	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3	742.6	743.8	744.6
125°	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4	804.9	805.3	805.8
127.5°	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6	868.3	869.1	869.2
130°	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8	906.6	907.5	907.8
132.5°	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9	942.8	943.7	943.8
135°	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7	997.4	998.0	998.0
137.5°	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5	1046.6	1047.7	1048.0
140°	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5	1077.4	1078.3	1078.5
142.5°	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9	1106.6	1107.3	1107.3
145°	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9	1147.4	1147.8	1148.0
147.5°	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7	1184.1	1184.6	1184.3
150°	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2	1206.6	1207.1	1207.0
152.5°	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2	1227.0	1227.8	1227.7
155°	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7	1254.8	1256.0	1255.8
157.5°	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7	1279.0	1280.3	1280.1
160°	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3	1292.7	1294.0	1293.9
162.5°	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7	1305.3	1306.8	1306.8
165°	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3	1322.1	1323.9	1324.0
167.5°	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8
170°	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0
172.5°	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3	1347.0	1348.8	1348.7
175°	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0	1352.6	1354.2	1354.1
177.5°	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2	1354.6	1356.0	1355.9
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-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°	21.3	20.5	20.6	21.1	20.6	20.5	21.3	20.3	20.2	20.0	19.4
90°	28.8	29.2	29.7	30.1	29.7	29.2	28.8	28.3	27.7	26.8	25.9
92.5°	32.5	32.8	33.1	33.3	33.1	32.8	32.5	32.3	31.4	30.0	28.6
95°	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2	37.4	35.8	34.3
97.5°	40.7	40.9	41.2	41.4	41.2	40.9	40.7	40.5	39.5	37.7	35.9
100°	41.5	41.7	42.0	42.2	42.0	41.7	41.5	41.3	40.3	38.5	36.7
102.5°	41.8	42.2	42.6	43.0	42.6	42.2	41.8	41.4	43.9	49.5	55.0
105°	42.9	43.3	43.7	44.2	43.7	43.3	42.9	42.4	61.9	101.4	141.0
107.5°	228.1	198.4	168.6	138.8	168.6	198.4	228.1	257.9	287.3	316.3	345.2
110°	372.0	340.0	308.1	276.2	308.1	340.0	372.0	403.9	423.5	430.9	438.3



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	494.1	487.4	480.6	473.9	480.6	487.4	494.1	500.8	504.1	504.0	503.9
115°	587.9	588.8	589.7	590.6	589.7	588.8	587.9	587.0	585.5	583.2	581.0
117.5°	655.5	655.7	655.9	656.1	655.9	655.7	655.5	655.4	654.4	652.6	650.8
120°	701.1	701.1	701.1	701.1	701.1	701.1	701.1	701.1	700.2	698.4	696.6
122.5°	744.7	744.9	745.1	745.3	745.1	744.9	744.7	744.6	743.8	742.6	741.3
125°	806.2	806.6	807.1	807.5	807.1	806.6	806.2	805.8	805.3	804.9	804.4
127.5°	868.7	868.3	867.9	867.4	867.9	868.3	868.7	869.2	869.1	868.3	867.6
130°	907.3	906.9	906.4	906.0	906.4	906.9	907.3	907.8	907.5	906.6	905.8
132.5°	943.2	942.6	942.0	941.3	942.0	942.6	943.2	943.8	943.7	942.8	941.9
135°	997.4	996.7	996.0	995.4	996.0	996.7	997.4	998.0	998.0	997.4	996.7
137.5°	1047.5	1047.1	1046.6	1046.2	1046.6	1047.1	1047.5	1048.0	1047.7	1046.6	1045.5
140°	1078.1	1077.6	1077.2	1076.7	1077.2	1077.6	1078.1	1078.5	1078.3	1077.4	1076.5
142.5°	1106.7	1106.1	1105.5	1104.8	1105.5	1106.1	1106.7	1107.3	1107.3	1106.6	1105.9
145°	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1148.0	1147.8	1147.4	1146.9
147.5°	1183.3	1182.2	1181.2	1180.2	1181.2	1182.2	1183.3	1184.3	1184.6	1184.1	1183.7
150°	1206.3	1205.6	1205.0	1204.3	1205.0	1205.6	1206.3	1207.0	1207.1	1206.6	1206.2
152.5°	1226.6	1225.6	1224.6	1223.6	1224.6	1225.6	1226.6	1227.7	1227.8	1227.0	1226.2
155°	1254.5	1253.2	1251.8	1250.5	1251.8	1253.2	1254.5	1255.8	1256.0	1254.8	1253.7
157.5°	1278.4	1276.7	1274.9	1273.2	1274.9	1276.7	1278.4	1280.1	1280.3	1279.0	1277.7
160°	1292.3	1290.8	1289.2	1287.6	1289.2	1290.8	1292.3	1293.9	1294.0	1292.7	1291.3
162.5°	1305.5	1304.1	1302.7	1301.3	1302.7	1304.1	1305.5	1306.8	1306.8	1305.3	1303.7
165°	1322.5	1320.9	1319.3	1317.8	1319.3	1320.9	1322.5	1324.0	1323.9	1322.1	1320.3
167.5°	1335.0	1333.2	1331.4	1329.6	1331.4	1333.2	1335.0	1336.8	1336.8	1335.0	1333.2
170°	1342.2	1340.4	1338.6	1336.9	1338.6	1340.4	1342.2	1344.0	1344.0	1342.2	1340.4
172.5°	1346.8	1344.8	1342.8	1340.9	1342.8	1344.8	1346.8	1348.7	1348.8	1347.0	1345.3
175°	1352.3	1350.5	1348.7	1346.9	1348.7	1350.5	1352.3	1354.1	1354.2	1352.6	1351.0
177.5°	1354.1	1352.3	1350.5	1348.7	1350.5	1352.3	1354.1	1355.9	1356.0	1354.6	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-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°	19.2	18.6	18.5	17.5	16.5	15.5	13.7	13.7	13.2	14.5	13.6
90°	25.0	24.1	21.2	18.3	15.4	12.5	9.9	7.7	5.5	3.2	1.0
92.5°	27.1	25.7	23.5	21.3	19.2	17.0	16.2	16.8	17.4	18.1	18.7
95°	32.7	31.1	28.7	26.2	23.8	21.3	24.7	33.8	43.0	52.1	61.3
97.5°	34.1	32.3	48.4	64.5	80.6	96.6	106.7	110.8	114.9	119.0	123.1
100°	34.9	33.1	68.0	102.8	137.6	172.4	187.6	183.1	178.7	174.2	169.7
102.5°	60.6	66.1	104.1	142.2	180.2	218.2	235.6	232.4	229.2	226.0	222.8
105°	180.5	220.0	240.1	260.1	280.2	300.3	309.1	306.7	304.2	301.8	299.3
107.5°	374.2	403.2	400.0	396.8	393.7	390.5	387.9	386.0	384.0	382.0	380.1
110°	445.6	453.0	450.5	448.1	445.6	443.2	441.0	439.3	437.5	435.7	433.9



TEST NUMBER: P332438

CATALOG NUMBER: S123RDIW-S775D1030U835-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	503.7	503.6	501.2	498.7	496.2	493.8	491.8	490.2	488.5	486.9	485.3
115°	578.8	576.5	574.5	572.5	570.5	568.5	566.8	565.5	564.1	562.8	561.5
117.5°	649.0	647.2	646.2	645.2	644.2	643.1	641.8	640.1	638.5	636.8	635.2
120°	694.8	693.0	692.4	691.7	691.0	690.4	689.0	687.0	685.0	683.0	681.0
122.5°	740.1	738.8	738.0	737.1	736.3	735.4	734.2	732.5	730.9	729.2	727.6
125°	804.0	803.5	802.6	801.7	800.8	800.0	798.6	796.8	795.0	793.3	791.5
127.5°	866.9	866.2	865.1	864.1	863.0	861.9	860.5	858.7	856.9	855.1	853.3
130°	904.9	904.0	903.1	902.2	901.3	900.4	899.1	897.3	895.5	893.7	891.9
132.5°	941.0	940.1	939.4	938.7	938.0	937.3	936.0	934.2	932.4	930.7	928.9
135°	996.0	995.4	994.5	993.6	992.7	991.8	990.7	989.3	988.0	986.7	985.3
137.5°	1044.4	1043.4	1042.9	1042.4	1041.9	1041.4	1040.3	1038.6	1036.9	1035.2	1033.5
140°	1075.6	1074.7	1074.0	1073.4	1072.7	1072.0	1071.0	1069.7	1068.4	1067.0	1065.7
142.5°	1105.2	1104.4	1103.8	1103.1	1102.4	1101.8	1100.8	1099.4	1098.1	1096.7	1095.4
145°	1146.5	1146.0	1145.6	1145.1	1144.7	1144.2	1143.2	1141.7	1140.1	1138.5	1137.0
147.5°	1183.2	1182.8	1182.3	1181.9	1181.4	1181.0	1180.3	1179.2	1178.2	1177.2	1176.2
150°	1205.7	1205.3	1204.8	1204.4	1203.9	1203.5	1202.9	1202.3	1201.6	1200.9	1200.3
152.5°	1225.4	1224.6	1224.3	1224.0	1223.8	1223.5	1223.2	1222.9	1222.6	1222.3	1222.0
155°	1252.6	1251.5	1251.3	1251.0	1250.8	1250.6	1250.7	1251.2	1251.6	1252.0	1252.5
157.5°	1276.3	1275.0	1275.2	1275.4	1275.7	1275.9	1276.0	1276.1	1276.1	1276.2	1276.2
160°	1290.0	1288.7	1288.9	1289.1	1289.3	1289.5	1289.8	1290.0	1290.2	1290.4	1290.7
162.5°	1302.2	1300.7	1300.9	1301.2	1301.4	1301.6	1302.0	1302.6	1303.2	1303.7	1304.3
165°	1318.6	1316.8	1317.0	1317.2	1317.4	1317.7	1318.1	1318.8	1319.5	1320.1	1320.8
167.5°	1331.4	1329.6	1329.6	1329.6	1329.6	1329.6	1330.1	1331.0	1331.9	1332.8	1333.6
170°	1338.6	1336.9	1336.9	1336.9	1336.9	1336.9	1337.3	1338.2	1339.1	1340.0	1340.9
172.5°	1343.5	1341.7	1341.5	1341.3	1341.1	1341.0	1341.4	1342.5	1343.6	1344.6	1345.7
175°	1349.5	1347.9	1347.7	1347.5	1347.2	1347.0	1347.5	1348.6	1349.7	1350.8	1351.9
177.5°	1351.8	1350.3	1350.1	1350.0	1349.8	1349.6	1350.0	1350.9	1351.8	1352.6	1353.5
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



TEST NUMBER: P332438

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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°	12.0	9.9	9.9	9.1	9.6	9.4	10.4	10.1	10.3	10.9	10.2
90°	3.2	5.5	7.7	9.9	12.5	15.4	18.3	21.2	24.1	25.0	25.9
92.5°	18.1	17.4	16.8	16.2	17.0	19.2	21.3	23.5	25.7	27.1	28.6
95°	52.1	43.0	33.8	24.7	21.3	23.8	26.2	28.7	31.1	32.7	34.3
97.5°	119.0	114.9	110.8	106.7	96.6	80.6	64.5	48.4	32.3	34.1	35.9
100°	174.2	178.7	183.1	187.6	172.4	137.6	102.8	68.0	33.1	34.9	36.7
102.5°	226.0	229.2	232.4	235.6	218.2	180.2	142.2	104.1	66.1	60.6	55.0
105°	301.8	304.2	306.7	309.1	300.3	280.2	260.1	240.1	220.0	180.5	141.0
107.5°	382.0	384.0	386.0	387.9	390.5	393.7	396.8	400.0	403.2	374.2	345.2
110°	435.7	437.5	439.3	441.0	443.2	445.6	448.1	450.5	453.0	445.6	438.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	486.9	488.5	490.2	491.8	493.8	496.2	498.7	501.2	503.6	503.7	503.9
115°	562.8	564.1	565.5	566.8	568.5	570.5	572.5	574.5	576.5	578.8	581.0
117.5°	636.8	638.5	640.1	641.8	643.1	644.2	645.2	646.2	647.2	649.0	650.8
120°	683.0	685.0	687.0	689.0	690.4	691.0	691.7	692.4	693.0	694.8	696.6
122.5°	729.2	730.9	732.5	734.2	735.4	736.3	737.1	738.0	738.8	740.1	741.3
125°	793.3	795.0	796.8	798.6	800.0	800.8	801.7	802.6	803.5	804.0	804.4
127.5°	855.1	856.9	858.7	860.5	861.9	863.0	864.1	865.1	866.2	866.9	867.6
130°	893.7	895.5	897.3	899.1	900.4	901.3	902.2	903.1	904.0	904.9	905.8
132.5°	930.7	932.4	934.2	936.0	937.3	938.0	938.7	939.4	940.1	941.0	941.9
135°	986.7	988.0	989.3	990.7	991.8	992.7	993.6	994.5	995.4	996.0	996.7
137.5°	1035.2	1036.9	1038.6	1040.3	1041.4	1041.9	1042.4	1042.9	1043.4	1044.4	1045.5
140°	1067.0	1068.4	1069.7	1071.0	1072.0	1072.7	1073.4	1074.0	1074.7	1075.6	1076.5
142.5°	1096.7	1098.1	1099.4	1100.8	1101.8	1102.4	1103.1	1103.8	1104.4	1105.2	1105.9
145°	1138.5	1140.1	1141.7	1143.2	1144.2	1144.7	1145.1	1145.6	1146.0	1146.5	1146.9
147.5°	1177.2	1178.2	1179.2	1180.3	1181.0	1181.4	1181.9	1182.3	1182.8	1183.2	1183.7
150°	1200.9	1201.6	1202.3	1202.9	1203.5	1203.9	1204.4	1204.8	1205.3	1205.7	1206.2
152.5°	1222.3	1222.6	1222.9	1223.2	1223.5	1223.8	1224.0	1224.3	1224.6	1225.4	1226.2
155°	1252.0	1251.6	1251.2	1250.7	1250.6	1250.8	1251.0	1251.3	1251.5	1252.6	1253.7
157.5°	1276.2	1276.1	1276.1	1276.0	1275.9	1275.7	1275.4	1275.2	1275.0	1276.3	1277.7
160°	1290.4	1290.2	1290.0	1289.8	1289.5	1289.3	1289.1	1288.9	1288.7	1290.0	1291.3
162.5°	1303.7	1303.2	1302.6	1302.0	1301.6	1301.4	1301.2	1300.9	1300.7	1302.2	1303.7
165°	1320.1	1319.5	1318.8	1318.1	1317.7	1317.4	1317.2	1317.0	1316.8	1318.6	1320.3
167.5°	1332.8	1331.9	1331.0	1330.1	1329.6	1329.6	1329.6	1329.6	1329.6	1331.4	1333.2
170°	1340.0	1339.1	1338.2	1337.3	1336.9	1336.9	1336.9	1336.9	1336.9	1338.6	1340.4
172.5°	1344.6	1343.6	1342.5	1341.4	1341.0	1341.1	1341.3	1341.5	1341.7	1343.5	1345.3
175°	1350.8	1349.7	1348.6	1347.5	1347.0	1347.2	1347.5	1347.7	1347.9	1349.5	1351.0
177.5°	1352.6	1351.8	1350.9	1350.0	1349.6	1349.8	1350.0	1350.1	1350.3	1351.8	1353.2
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9



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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°	10.4	10.6	10.3	10.4	10.0	11.0	10.2
90°	26.8	27.7	28.3	28.8	29.2	29.7	30.1
92.5°	30.0	31.4	32.3	32.5	32.8	33.1	33.3
95°	35.8	37.4	38.2	38.2	38.2	38.2	38.2
97.5°	37.7	39.5	40.5	40.7	40.9	41.2	41.4
100°	38.5	40.3	41.3	41.5	41.7	42.0	42.2
102.5°	49.5	43.9	41.4	41.8	42.2	42.6	43.0
105°	101.4	61.9	42.4	42.9	43.3	43.7	44.2
107.5°	316.3	287.3	257.9	228.1	198.4	168.6	138.8
110°	430.9	423.5	403.9	372.0	340.0	308.1	276.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	504.0	504.1	500.8	494.1	487.4	480.6	473.9
115°	583.2	585.5	587.0	587.9	588.8	589.7	590.6
117.5°	652.6	654.4	655.4	655.5	655.7	655.9	656.1
120°	698.4	700.2	701.1	701.1	701.1	701.1	701.1
122.5°	742.6	743.8	744.6	744.7	744.9	745.1	745.3
125°	804.9	805.3	805.8	806.2	806.6	807.1	807.5
127.5°	868.3	869.1	869.2	868.7	868.3	867.9	867.4
130°	906.6	907.5	907.8	907.3	906.9	906.4	906.0
132.5°	942.8	943.7	943.8	943.2	942.6	942.0	941.3
135°	997.4	998.0	998.0	997.4	996.7	996.0	995.4
137.5°	1046.6	1047.7	1048.0	1047.5	1047.1	1046.6	1046.2
140°	1077.4	1078.3	1078.5	1078.1	1077.6	1077.2	1076.7
142.5°	1106.6	1107.3	1107.3	1106.7	1106.1	1105.5	1104.8
145°	1147.4	1147.8	1148.0	1148.0	1148.0	1148.0	1148.0
147.5°	1184.1	1184.6	1184.3	1183.3	1182.2	1181.2	1180.2
150°	1206.6	1207.1	1207.0	1206.3	1205.6	1205.0	1204.3
152.5°	1227.0	1227.8	1227.7	1226.6	1225.6	1224.6	1223.6
155°	1254.8	1256.0	1255.8	1254.5	1253.2	1251.8	1250.5
157.5°	1279.0	1280.3	1280.1	1278.4	1276.7	1274.9	1273.2
160°	1292.7	1294.0	1293.9	1292.3	1290.8	1289.2	1287.6
162.5°	1305.3	1306.8	1306.8	1305.5	1304.1	1302.7	1301.3
165°	1322.1	1323.9	1324.0	1322.5	1320.9	1319.3	1317.8
167.5°	1335.0	1336.8	1336.8	1335.0	1333.2	1331.4	1329.6
170°	1342.2	1344.0	1344.0	1342.2	1340.4	1338.6	1336.9
172.5°	1347.0	1348.8	1348.7	1346.8	1344.8	1342.8	1340.9
175°	1352.6	1354.2	1354.1	1352.3	1350.5	1348.7	1346.9
177.5°	1354.6	1356.0	1355.9	1354.1	1352.3	1350.5	1348.7
180°	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9	1351.9

(END OF REPORT)