

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: P332463-930

Luminaire Tested: **S123RDIW-S1000D1320U930-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332463-930
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-S1000D1320U930-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 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: 6960.6 lumens
Efficiency: N/A
Efficacy: 99.7 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

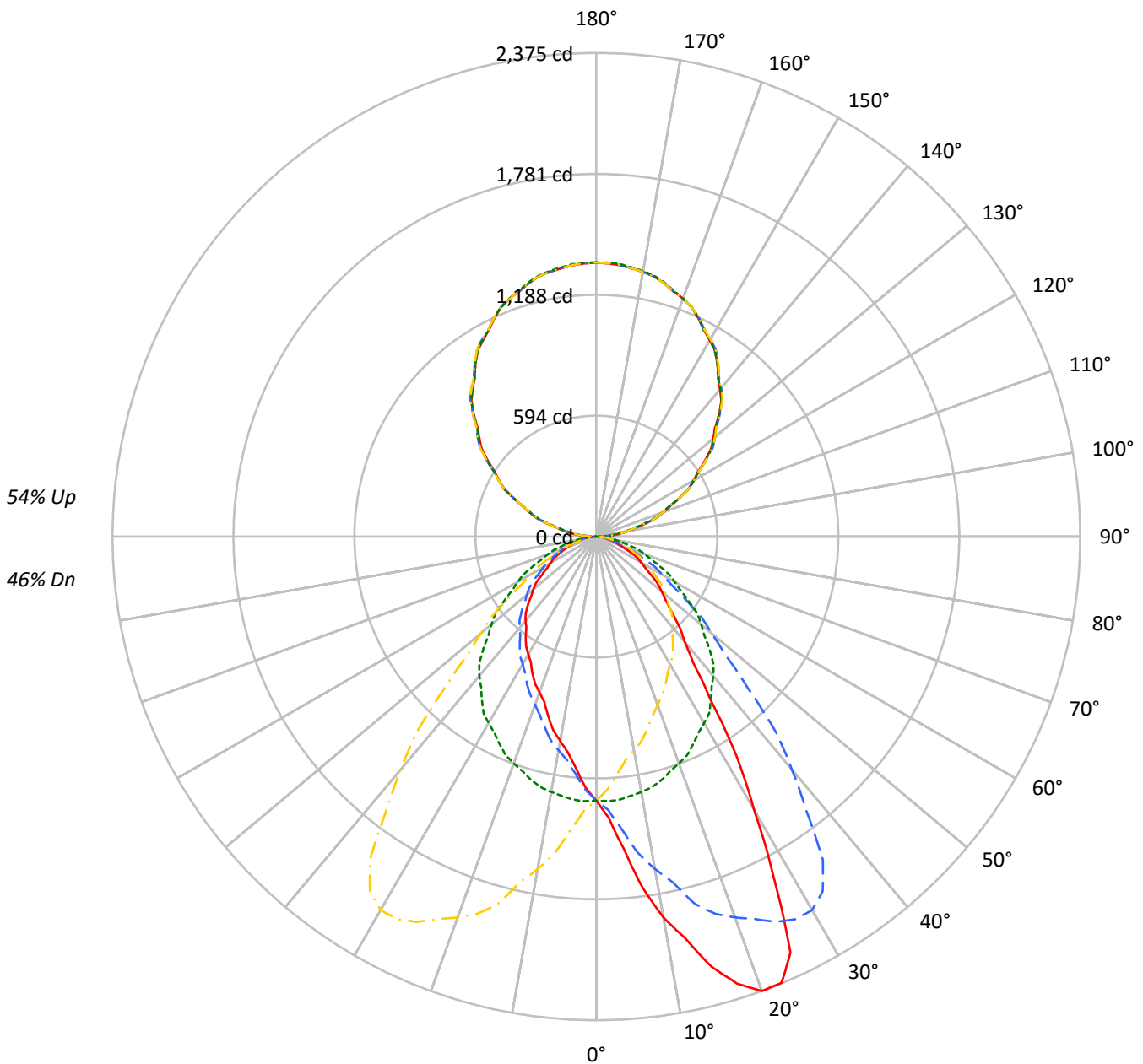
Input Watts (W): 69.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - · - · 90°-270° - · - · 135°-315°



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CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53	46
1	98	93	90	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	82	76	71	82	76	71	67	64	60	57	53	50	48	42	41	39	35
3	82	73	66	60	75	67	61	56	57	52	49	47	44	41	38	36	34	30
4	75	65	57	51	69	60	53	48	51	46	42	42	39	36	34	32	30	26
5	69	58	50	44	63	54	47	42	46	40	36	38	34	31	31	28	26	23
6	64	52	44	39	58	48	41	36	41	36	32	35	31	28	28	26	23	20
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	26	23	21	18
8	55	43	35	30	50	40	33	29	34	29	25	29	25	22	24	21	19	16
9	51	39	32	27	47	37	30	26	31	26	23	27	23	20	22	19	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

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



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	1.8
10°-20°	398.2	5.7
20°-30°	625.6	9.0
30°-40°	652.7	9.4
40°-50°	558.6	8.0
50°-60°	425.7	6.1
60°-70°	272.9	3.9
70°-80°	131.3	1.9
80°-90°	38.7	0.6
90°-100°	87.7	1.3
100°-110°	262.5	3.8
110°-120°	446.4	6.4
120°-130°	587.2	8.4
130°-140°	660.0	9.5
140°-150°	648.8	9.3
150°-160°	546.2	7.8
160°-170°	363.6	5.2
170°-180°	127.3	1.8
0°-30°	1151.2	16.5
0°-40°	1803.9	25.9
0°-60°	2788.2	40.1
0°-90°	3231.1	46.4
90°-120°	796.6	11.4
90°-150°	2692.5	38.7
90°-180°	3730.0	53.6
0°-180°	6960.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1296	1296	1296	1296	1296	
5°	1539	1297	1142	1297	1539	159
15°	2187	1237	912	1237	2187	620
25°	2254	1124	742	1124	2254	969
35°	978	980	605	980	978	641
45°	522	787	476	787	522	410
55°	327	554	325	554	327	296
65°	189	342	204	342	189	186
75°	80	166	104	166	80	86
85°	19	38	37	38	19	22
90°	32	1	32	1	32	16
95°	82	62	82	62	82	85
105°	252	238	252	238	252	267
115°	450	449	450	449	450	446
125°	650	658	650	658	650	581
135°	852	853	852	853	852	655
145°	1035	1035	1035	1035	1035	646
155°	1183	1185	1183	1185	1183	545
165°	1287	1291	1287	1291	1287	363
175°	1338	1343	1338	1343	1338	127
180°	1346	1346	1346	1346	1346	



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1380.5	1382.2	1376.5	1375.6	1368.9	1367.1	1367.1	1357.8	1352.0	1344.5	1340.0
5°	1539.1	1548.0	1543.5	1533.6	1516.9	1513.0	1502.5	1485.9	1467.0	1443.7	1432.6
7.5°	1737.3	1749.4	1744.7	1729.3	1711.9	1697.8	1668.1	1640.5	1601.7	1567.7	1538.7
10°	1899.7	1887.0	1877.0	1862.1	1845.9	1819.8	1788.8	1746.0	1696.7	1657.8	1614.6
12.5°	2021.4	2019.3	2006.6	1991.2	1968.5	1943.7	1905.5	1853.5	1796.1	1740.0	1690.4
15°	2187.2	2190.5	2182.1	2166.1	2133.9	2090.1	2032.4	2010.8	1928.6	1867.6	1806.5
17.5°	2301.9	2301.3	2300.1	2277.9	2245.0	2213.8	2160.3	2103.4	2029.0	1943.0	1860.8
20°	2374.7	2369.2	2370.2	2345.3	2320.9	2284.8	2232.7	2150.0	2089.0	1989.7	1904.8
22.5°	2372.9	2371.8	2376.0	2367.5	2349.8	2322.1	2281.0	2211.3	2133.3	2033.1	1937.6
25°	2253.7	2249.3	2275.4	2282.6	2310.9	2315.9	2303.7	2265.4	2191.6	2088.4	1970.3
27.5°	1886.2	1883.7	1932.2	1992.8	2069.6	2129.2	2187.0	2214.8	2191.6	2117.7	1999.3
30°	1548.0	1600.2	1624.6	1712.2	1809.9	1926.4	2028.5	2125.6	2149.5	2117.3	2020.1
32.5°	1285.2	1330.7	1351.1	1426.4	1517.4	1653.8	1807.0	1944.5	2041.6	2066.2	2007.8
35°	977.6	978.2	1024.7	1058.1	1142.4	1282.8	1431.5	1615.7	1798.8	1937.5	1951.9
37.5°	780.1	782.9	811.1	844.2	907.5	981.7	1112.6	1265.8	1477.3	1690.3	1815.1
40°	673.6	678.6	699.7	732.4	777.9	833.9	936.0	1080.3	1256.7	1493.6	1687.3
42.5°	605.2	613.3	624.2	649.4	677.6	730.0	812.6	924.1	1084.5	1308.6	1531.9
45°	521.5	525.9	534.3	545.9	571.4	608.1	663.6	738.5	871.6	1052.0	1275.5
47.5°	460.1	457.7	466.5	476.0	492.9	517.9	555.1	616.2	711.2	855.9	1045.5
50°	418.3	417.8	423.9	431.1	447.2	465.5	496.0	542.1	617.5	737.4	911.0
52.5°	379.3	381.4	385.7	394.7	406.3	421.1	448.5	481.7	546.5	650.0	794.8
55°	327.3	329.1	335.1	340.1	348.5	363.4	380.6	408.4	452.7	524.9	644.2
57.5°	283.4	282.7	288.5	289.8	299.1	311.4	324.7	346.3	378.4	432.0	512.3
60°	254.1	252.4	257.5	261.3	266.4	276.3	287.4	308.5	334.0	373.4	442.2
62.5°	227.5	226.7	230.4	234.2	238.4	247.4	256.8	273.0	293.2	326.4	381.0
65°	188.7	190.3	192.0	193.6	195.8	201.4	210.3	221.4	235.2	258.5	297.9
67.5°	148.2	149.9	150.5	153.9	158.7	162.2	167.5	177.4	187.1	206.8	229.2
70°	119.8	119.3	119.8	121.5	127.6	133.7	141.0	148.1	154.3	168.1	186.9
72.5°	103.0	102.0	103.5	103.8	106.7	108.4	113.0	119.8	127.6	137.1	150.6
75°	79.9	79.9	79.9	79.9	82.1	83.2	84.9	86.6	89.4	93.8	103.8
77.5°	59.0	59.1	59.9	60.5	60.9	61.6	62.6	64.2	65.2	67.6	71.9
80°	46.6	47.1	46.6	47.1	47.1	48.3	48.8	50.5	51.0	53.8	55.5
82.5°	35.1	34.7	35.1	35.6	35.6	36.8	36.9	38.1	38.2	39.6	41.3
85°	18.8	17.8	18.8	18.3	19.4	18.3	18.8	20.0	20.0	20.5	22.7
87.5°	10.8	11.6	10.6	10.9	10.8	11.2	11.0	10.8	11.5	10.8	10.7
90°	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2	26.3	25.4	22.3
92.5°	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1	41.3	40.6	38.9
95°	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1	79.2	78.3	76.4
97.5°	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6	123.5	122.5	121.1
100°	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9	156.1	155.5	154.3
102.5°	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0	193.4	192.7	191.1
105°	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6	249.6	249.6	247.4
107.5°	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7	308.9	308.1	307.3
110°	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8	348.9	347.9	347.4



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9	388.8	387.7	387.6
115°	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9	450.7	450.5	450.9
117.5°	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6	512.6	512.7	513.2
120°	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6	553.8	554.1	555.3
122.5°	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2	595.7	596.4	597.0
125°	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9	657.9	658.8	659.3
127.5°	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9	719.2	720.6	721.1
130°	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4	759.4	760.3	761.0
132.5°	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8	798.9	800.1	800.5
135°	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7	857.7	858.6	858.8
137.5°	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4	915.3	916.4	915.7
140°	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3	952.5	952.8	952.5
142.5°	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8	988.1	988.3	987.8
145°	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0	1040.2	1040.5	1039.8
147.5°	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8	1119.8	1119.8	1119.3
152.5°	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6	1147.3	1146.9	1146.6
155°	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3	1187.4	1186.4	1186.2
157.5°	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3	1222.3	1221.3	1221.2
160°	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8	1243.7	1242.4	1242.4
162.5°	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1	1264.0	1262.7	1262.6
165°	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8	1289.3	1287.9	1287.9
167.5°	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6	1308.5
170°	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6	1319.6
172.5°	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9	1330.4	1328.9	1328.9
175°	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5	1340.1	1338.7	1338.7
177.5°	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8	1344.7	1343.5	1343.5
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1338.2	1336.9	1330.7	1323.6	1314.3	1308.1	1303.2	1300.6	1292.6	1282.8	1276.1
5°	1420.9	1404.3	1386.6	1364.9	1344.9	1324.4	1311.7	1296.7	1278.3	1257.8	1243.4
7.5°	1509.5	1476.8	1441.7	1405.4	1369.5	1337.4	1309.0	1284.7	1255.5	1226.0	1205.4
10°	1577.4	1529.7	1480.3	1429.8	1383.7	1340.5	1307.2	1274.5	1239.5	1205.7	1180.1
12.5°	1639.1	1576.3	1519.4	1457.3	1398.4	1346.7	1298.8	1260.3	1218.2	1182.1	1153.1
15°	1717.2	1652.9	1584.0	1489.7	1411.5	1346.1	1287.8	1237.3	1186.3	1141.8	1113.5
17.5°	1790.2	1693.4	1600.9	1522.2	1420.6	1338.8	1267.7	1207.3	1151.3	1104.2	1069.4
20°	1820.4	1726.6	1626.2	1525.8	1426.0	1334.4	1251.7	1185.1	1126.9	1073.6	1041.5
22.5°	1838.6	1732.4	1626.7	1518.7	1412.6	1317.5	1235.7	1162.5	1099.3	1048.7	1009.0
25°	1859.8	1733.3	1616.8	1510.3	1402.1	1298.9	1201.8	1124.1	1055.9	1002.0	959.9
27.5°	1873.8	1725.0	1587.3	1468.8	1359.1	1256.4	1167.3	1085.0	1015.8	958.9	913.6
30°	1876.5	1718.3	1564.6	1436.5	1324.9	1230.6	1136.3	1057.5	984.3	923.8	881.7
32.5°	1880.0	1701.9	1534.0	1397.8	1283.7	1190.3	1104.8	1029.6	954.6	895.0	851.9
35°	1865.4	1692.8	1487.5	1331.1	1216.8	1126.3	1049.2	979.8	906.0	848.3	804.5
37.5°	1802.3	1656.8	1439.3	1255.8	1136.3	1052.6	989.7	929.3	861.5	799.3	758.0
40°	1738.9	1621.2	1402.1	1210.1	1085.2	999.2	942.6	893.3	827.9	769.6	725.2
42.5°	1644.3	1572.9	1366.6	1162.1	1027.5	944.7	896.9	850.7	793.2	734.0	692.4
45°	1470.9	1480.3	1293.9	1085.8	947.6	864.5	819.5	787.3	736.3	687.5	644.7
47.5°	1253.4	1341.6	1208.5	1004.4	863.4	785.3	746.0	718.0	683.5	635.6	596.6
50°	1111.3	1237.3	1140.2	949.9	810.7	733.0	694.1	671.3	641.4	603.6	566.5
52.5°	980.4	1115.7	1057.6	889.1	753.3	682.3	644.4	625.7	601.9	566.4	532.7
55°	799.5	936.5	923.2	797.3	667.5	603.6	574.8	553.8	537.6	511.0	484.4
57.5°	646.7	776.7	783.5	695.2	591.8	528.7	503.9	488.0	477.5	457.4	432.8
60°	550.4	669.7	693.0	626.4	537.6	482.2	457.7	445.0	436.7	420.5	401.7
62.5°	470.5	572.0	598.4	550.5	485.7	433.7	414.7	402.4	396.7	382.9	366.2
65°	360.1	444.4	469.9	443.3	409.4	367.9	352.3	341.8	336.8	329.1	316.8
67.5°	270.8	332.2	360.2	341.4	329.2	303.0	293.1	287.4	283.0	277.6	267.4
70°	217.5	263.0	291.9	286.8	276.9	263.0	255.8	251.9	247.4	243.0	234.2
72.5°	174.9	206.2	233.3	235.8	227.6	224.9	218.5	216.9	214.2	208.9	204.0
75°	115.9	137.6	156.5	163.7	167.0	169.7	167.0	166.5	165.9	161.4	158.7
77.5°	76.0	87.6	99.5	111.9	117.1	120.8	121.7	123.8	122.3	119.9	118.6
80°	58.3	61.1	69.4	79.9	88.2	91.6	93.8	94.9	94.3	93.8	91.6
82.5°	42.3	44.6	48.5	55.9	62.9	68.5	69.8	69.5	70.8	71.1	69.4
85°	22.7	23.3	24.4	25.5	29.4	35.5	37.2	38.3	39.4	39.4	36.0
87.5°	10.9	9.9	10.2	9.6	10.5	10.4	12.6	14.4	15.3	14.0	14.5
90°	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1	3.4	5.8	8.1
92.5°	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6	27.1	28.8	30.4
95°	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4	64.0	65.7	67.3
97.5°	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8	112.0	113.2	114.5
100°	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8	145.2	146.6	148.1
102.5°	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9	182.7	183.6	184.4
105°	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9	238.4	238.9	239.3
107.5°	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0	303.4	303.6	303.9
110°	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6	344.1	344.6	345.0



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0	386.2	386.5	386.8
115°	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4	450.1	450.8	451.5
117.5°	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3	513.7	514.2	514.7
120°	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0	554.4	555.9	557.3
122.5°	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5	595.5	596.6	597.6
125°	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7	658.4	659.1	659.8
127.5°	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1	717.6	719.1	720.6
130°	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0	756.8	758.8	760.7
132.5°	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9	795.8	797.7	799.6
135°	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4	854.8	856.1	857.5
137.5°	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3	909.5	910.7	911.8
140°	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4	947.5	948.8	949.9
142.5°	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0	982.3	983.4	984.6
145°	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2	1035.7	1036.2	1036.7
147.5°	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6	1083.5	1084.3	1085.2
150°	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6	1116.1	1116.6	1117.0
152.5°	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6	1143.3	1143.9	1144.6
155°	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7	1221.5	1221.2	1220.9
160°	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6	1244.1	1243.7	1243.2
162.5°	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9	1264.2	1263.6	1262.9
165°	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1	1290.4	1289.7	1289.0
167.5°	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1	1311.1	1310.2	1309.2
170°	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9	1323.0	1322.0	1321.1
172.5°	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2	1332.3	1331.3	1330.4
175°	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0	1342.0	1341.1	1340.1
177.5°	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0	1346.2	1345.4	1344.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1273.9	1268.1	1264.1	1255.2	1249.5	1243.2	1237.1	1241.0	1240.6	1240.2	1240.2
5°	1231.2	1218.4	1206.8	1191.8	1182.3	1170.7	1161.8	1160.7	1162.9	1155.2	1150.7
7.5°	1188.8	1171.3	1154.9	1138.3	1120.8	1106.8	1098.0	1093.9	1088.3	1083.5	1078.5
10°	1159.0	1138.6	1122.4	1101.9	1083.0	1066.4	1055.9	1048.6	1044.7	1040.9	1033.6
12.5°	1128.5	1108.3	1087.9	1064.6	1046.7	1027.4	1019.5	1011.4	1004.0	999.6	989.7
15°	1083.6	1057.5	1035.9	1011.5	991.5	972.7	961.6	945.4	943.2	937.7	927.7
17.5°	1038.7	1010.3	980.5	962.5	939.9	920.2	903.4	898.0	882.1	876.1	867.4
20°	1003.1	977.1	954.3	930.5	897.7	879.4	866.1	858.9	846.1	838.4	832.8
22.5°	972.5	946.0	919.7	891.9	864.9	844.3	834.6	823.4	816.4	805.5	799.5
25°	928.8	899.9	868.3	838.4	819.0	803.4	787.9	777.9	767.9	762.9	751.8
27.5°	878.0	847.8	818.2	795.5	771.7	756.4	742.2	733.4	721.4	713.0	706.9
30°	850.0	814.5	789.0	768.4	737.9	723.5	713.0	701.9	693.0	684.1	678.0
32.5°	817.6	785.2	761.0	735.6	712.2	696.4	682.8	673.0	665.4	657.0	650.9
35°	766.8	739.6	714.6	689.1	671.9	655.8	639.8	631.4	624.2	616.4	610.9
37.5°	720.8	695.5	671.7	647.5	626.1	613.1	600.1	593.8	584.0	578.8	573.2
40°	692.4	667.5	642.0	618.6	596.5	586.4	574.8	565.4	556.5	552.6	546.5
42.5°	661.4	636.4	614.9	589.8	571.6	558.1	547.3	537.0	530.4	524.6	521.2
45°	615.3	593.1	572.0	547.1	529.9	518.2	506.0	496.6	490.5	486.6	480.5
47.5°	570.6	548.4	527.0	505.2	488.6	475.2	463.1	456.5	448.4	443.7	439.5
50°	538.2	518.2	495.5	475.5	458.9	445.6	435.5	427.2	420.0	413.9	411.2
52.5°	508.4	487.1	467.5	448.9	431.3	416.2	407.2	398.4	393.0	386.0	382.7
55°	459.4	438.9	422.2	403.9	386.7	374.0	362.9	355.1	349.5	341.8	337.4
57.5°	413.4	394.9	375.0	359.2	341.4	330.7	321.5	311.0	304.2	298.1	293.8
60°	382.3	361.2	344.0	329.1	313.5	299.6	291.3	283.0	275.7	269.6	265.8
62.5°	349.8	331.5	315.1	298.8	284.6	272.6	262.9	255.9	249.6	245.6	241.8
65°	300.2	285.8	269.1	255.8	242.5	233.6	225.8	219.7	215.2	212.5	209.2
67.5°	254.5	240.4	225.9	212.9	204.0	197.2	192.1	186.9	184.7	181.1	178.9
70°	224.7	210.3	197.5	187.5	178.6	173.7	170.3	166.5	164.2	159.8	157.6
72.5°	192.3	181.9	172.7	164.4	157.4	152.8	148.5	143.8	140.2	135.3	133.1
75°	151.5	142.0	134.9	129.3	124.8	118.7	112.6	107.6	106.0	104.3	103.8
77.5°	112.2	106.2	101.0	96.3	90.7	86.3	85.0	83.9	83.6	82.7	82.7
80°	88.2	82.7	78.8	73.2	69.9	69.9	69.9	68.8	69.4	69.4	69.4
82.5°	65.6	60.5	58.4	56.3	55.7	56.2	56.2	56.3	56.0	56.9	56.5
85°	33.8	34.4	35.5	35.0	35.5	35.5	36.6	36.0	36.6	35.5	36.6
87.5°	14.5	16.4	17.4	18.5	19.6	19.7	20.4	20.5	21.2	21.4	21.5
90°	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2	28.2	29.1	29.8
92.5°	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1	42.9	43.6	43.9
95°	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1	81.0	82.0	82.5
97.5°	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6	125.7	126.8	127.3
100°	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9	157.5	158.2	158.8
102.5°	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0	194.8	195.5	195.8
105°	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6	249.6	249.6	249.8
107.5°	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7	310.4	311.1	311.4
110°	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8	350.7	351.6	351.9



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9	391.0	392.2	392.6
115°	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9	451.2	451.4	451.4
117.5°	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6	512.5	512.4	512.1
120°	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6	553.4	553.2	552.8
122.5°	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2	594.5	593.9	593.3
125°	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9	656.0	655.0	654.1
127.5°	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9	716.6	715.3	714.0
130°	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4	757.5	756.5	755.2
132.5°	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8	796.6	795.6	794.3
135°	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7	855.8	854.8	854.2
137.5°	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4	913.4	912.4	911.5
140°	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3	952.0	951.8	950.9
142.5°	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8	987.6	987.3	986.6
145°	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0	1039.8	1039.6	1039.0
147.5°	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3	1089.3	1089.3	1088.7
150°	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8	1119.8	1119.8	1119.1
152.5°	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6	1148.0	1148.3	1147.9
155°	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3	1189.3	1190.2	1189.8
157.5°	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3	1224.3	1225.3	1225.1
160°	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8	1246.0	1247.2	1247.3
162.5°	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1	1266.3	1267.5	1267.3
165°	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8	1292.2	1293.6	1293.5
167.5°	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5
170°	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2
172.5°	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9	1333.3	1334.8	1334.7
175°	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5	1343.0	1344.3	1344.2
177.5°	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8	1347.0	1348.1	1348.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1234.9	1234.4	1234.9	1233.1	1234.9	1234.4	1234.9	1240.2	1240.2	1240.6	1241.0
5°	1149.1	1148.5	1146.9	1141.8	1146.9	1148.5	1149.1	1150.7	1155.2	1162.9	1160.7
7.5°	1074.2	1073.4	1068.5	1068.6	1068.5	1073.4	1074.2	1078.5	1083.5	1088.3	1093.9
10°	1029.8	1030.3	1023.7	1019.8	1023.7	1030.3	1029.8	1033.6	1040.9	1044.7	1048.6
12.5°	986.8	984.1	978.8	974.5	978.8	984.1	986.8	989.7	999.6	1004.0	1011.4
15°	929.9	924.4	911.0	912.2	911.0	924.4	929.9	927.7	937.7	943.2	945.4
17.5°	863.0	858.9	858.7	850.9	858.7	858.9	863.0	867.4	876.1	882.1	898.0
20°	823.9	821.2	822.2	814.5	822.2	821.2	823.9	832.8	838.4	846.1	858.9
22.5°	793.3	790.5	785.9	783.4	785.9	790.5	793.3	799.5	805.5	816.4	823.4
25°	748.4	744.0	739.6	742.4	739.6	744.0	748.4	751.8	762.9	767.9	777.9
27.5°	703.7	700.3	695.9	695.3	695.9	700.3	703.7	706.9	713.0	721.4	733.4
30°	675.2	671.9	669.7	666.9	669.7	671.9	675.2	678.0	684.1	693.0	701.9
32.5°	646.4	645.7	641.7	641.2	641.7	645.7	646.4	650.9	657.0	665.4	673.0
35°	608.6	605.4	604.2	604.8	604.2	605.4	608.6	610.9	616.4	624.2	631.4
37.5°	572.8	568.3	566.4	564.4	566.4	568.3	572.8	573.2	578.8	584.0	593.8
40°	547.1	542.7	541.5	540.4	541.5	542.7	547.1	546.5	552.6	556.5	565.4
42.5°	518.2	516.4	515.8	513.8	515.8	516.4	518.2	521.2	524.6	530.4	537.0
45°	478.8	478.3	474.9	476.1	474.9	478.3	478.8	480.5	486.6	490.5	496.6
47.5°	437.3	434.9	432.5	434.1	432.5	434.9	437.3	439.5	443.7	448.4	456.5
50°	409.0	407.8	402.8	403.9	402.8	407.8	409.0	411.2	413.9	420.0	427.2
52.5°	380.5	376.3	374.4	373.7	374.4	376.3	380.5	382.7	386.0	393.0	398.4
55°	333.5	328.5	326.3	325.1	326.3	328.5	333.5	337.4	341.8	349.5	355.1
57.5°	287.3	285.9	284.2	285.4	284.2	285.9	287.3	293.8	298.1	304.2	311.0
60°	260.2	260.2	260.2	259.7	260.2	260.2	260.2	265.8	269.6	275.7	283.0
62.5°	239.4	238.0	237.6	238.4	237.6	238.0	239.4	241.8	245.6	249.6	255.9
65°	207.5	206.9	204.7	204.2	204.7	206.9	207.5	209.2	212.5	215.2	219.7
67.5°	177.4	175.5	174.8	174.0	174.8	175.5	177.4	178.9	181.1	184.7	186.9
70°	154.8	153.7	150.3	150.9	150.3	153.7	154.8	157.6	159.8	164.2	166.5
72.5°	130.4	129.3	128.6	127.8	128.6	129.3	130.4	133.1	135.3	140.2	143.8
75°	103.2	102.6	102.1	104.3	102.1	102.6	103.2	103.8	104.3	106.0	107.6
77.5°	82.7	82.7	83.0	82.1	83.0	82.7	82.7	82.7	82.7	83.6	83.9
80°	69.4	69.4	68.8	68.8	68.8	69.4	69.4	69.4	69.4	69.4	68.8
82.5°	55.6	56.0	56.3	55.5	56.3	56.0	55.6	56.5	56.9	56.0	56.3
85°	36.6	36.0	37.2	36.6	37.2	36.0	36.6	36.6	35.5	36.6	36.0
87.5°	22.5	21.7	21.8	22.3	21.8	21.7	22.5	21.5	21.4	21.2	20.5
90°	30.3	30.8	31.2	31.7	31.2	30.8	30.3	29.8	29.1	28.2	27.2
92.5°	43.5	43.3	43.0	42.7	43.0	43.3	43.5	43.9	43.6	42.9	42.1
95°	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.0	81.0	80.1
97.5°	127.2	127.1	127.0	126.9	127.0	127.1	127.2	127.3	126.8	125.7	124.6
100°	159.3	159.8	160.3	160.7	160.3	159.8	159.3	158.8	158.2	157.5	156.9
102.5°	195.7	195.6	195.5	195.4	195.5	195.6	195.7	195.8	195.5	194.8	194.0
105°	250.3	250.7	251.2	251.7	251.2	250.7	250.3	249.8	249.6	249.6	249.6
107.5°	311.1	310.8	310.5	310.2	310.5	310.8	311.1	311.4	311.1	310.4	309.7
110°	351.4	351.0	350.5	350.0	350.5	351.0	351.4	351.9	351.6	350.7	349.8



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	392.6	392.5	392.4	392.3	392.4	392.5	392.6	392.6	392.2	391.0	389.9
115°	451.2	450.9	450.7	450.5	450.7	450.9	451.2	451.4	451.4	451.2	450.9
117.5°	511.4	510.8	510.1	509.5	510.1	510.8	511.4	512.1	512.4	512.5	512.6
120°	552.4	551.9	551.4	550.9	551.4	551.9	552.4	552.8	553.2	553.4	553.6
122.5°	592.6	592.0	591.3	590.7	591.3	592.0	592.6	593.3	593.9	594.5	595.2
125°	653.1	652.2	651.3	650.3	651.3	652.2	653.1	654.1	655.0	656.0	656.9
127.5°	713.0	711.9	710.9	709.7	710.9	711.9	713.0	714.0	715.3	716.6	717.9
130°	753.6	752.0	750.3	748.7	750.3	752.0	753.6	755.2	756.5	757.5	758.4
132.5°	793.0	791.8	790.5	789.3	790.5	791.8	793.0	794.3	795.6	796.6	797.8
135°	853.7	853.2	852.7	852.3	852.7	853.2	853.7	854.2	854.8	855.8	856.7
137.5°	910.6	909.7	908.8	907.9	908.8	909.7	910.6	911.5	912.4	913.4	914.4
140°	949.3	947.5	945.9	944.3	945.9	947.5	949.3	950.9	951.8	952.0	952.3
142.5°	985.3	984.1	982.8	981.5	982.8	984.1	985.3	986.6	987.3	987.6	987.8
145°	1038.0	1037.1	1036.2	1035.2	1036.2	1037.1	1038.0	1039.0	1039.6	1039.8	1040.0
147.5°	1087.3	1085.8	1084.4	1083.0	1084.4	1085.8	1087.3	1088.7	1089.3	1089.3	1089.3
150°	1117.7	1116.3	1114.8	1113.5	1114.8	1116.3	1117.7	1119.1	1119.8	1119.8	1119.8
152.5°	1146.7	1145.5	1144.3	1143.0	1144.3	1145.5	1146.7	1147.9	1148.3	1148.0	1147.6
155°	1188.2	1186.6	1184.9	1183.2	1184.9	1186.6	1188.2	1189.8	1190.2	1189.3	1188.3
157.5°	1223.8	1222.5	1221.2	1219.9	1221.2	1222.5	1223.8	1225.1	1225.3	1224.3	1223.3
160°	1246.3	1245.5	1244.5	1243.5	1244.5	1245.5	1246.3	1247.3	1247.2	1246.0	1244.8
162.5°	1265.8	1264.3	1262.8	1261.3	1262.8	1264.3	1265.8	1267.3	1267.5	1266.3	1265.1
165°	1291.8	1290.2	1288.5	1286.9	1288.5	1290.2	1291.8	1293.5	1293.6	1292.2	1290.8
167.5°	1313.0	1311.6	1310.1	1308.6	1310.1	1311.6	1313.0	1314.5	1314.5	1313.0	1311.6
170°	1324.6	1323.0	1321.3	1319.6	1321.3	1323.0	1324.6	1326.2	1326.2	1324.6	1323.0
172.5°	1333.1	1331.4	1329.8	1328.1	1329.8	1331.4	1333.1	1334.7	1334.8	1333.3	1331.9
175°	1342.6	1340.9	1339.3	1337.7	1339.3	1340.9	1342.6	1344.2	1344.3	1343.0	1341.5
177.5°	1346.6	1345.3	1344.0	1342.7	1344.0	1345.3	1346.6	1348.0	1348.1	1347.0	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1237.1	1243.2	1249.5	1255.2	1264.1	1268.1	1273.9	1276.1	1282.8	1292.6	1300.6
5°	1161.8	1170.7	1182.3	1191.8	1206.8	1218.4	1231.2	1243.4	1257.8	1278.3	1296.7
7.5°	1098.0	1106.8	1120.8	1138.3	1154.9	1171.3	1188.8	1205.4	1226.0	1255.5	1284.7
10°	1055.9	1066.4	1083.0	1101.9	1122.4	1138.6	1159.0	1180.1	1205.7	1239.5	1274.5
12.5°	1019.5	1027.4	1046.7	1064.6	1087.9	1108.3	1128.5	1153.1	1182.1	1218.2	1260.3
15°	961.6	972.7	991.5	1011.5	1035.9	1057.5	1083.6	1113.5	1141.8	1186.3	1237.3
17.5°	903.4	920.2	939.9	962.5	980.5	1010.3	1038.7	1069.4	1104.2	1151.3	1207.3
20°	866.1	879.4	897.7	930.5	954.3	977.1	1003.1	1041.5	1073.6	1126.9	1185.1
22.5°	834.6	844.3	864.9	891.9	919.7	946.0	972.5	1009.0	1048.7	1099.3	1162.5
25°	787.9	803.4	819.0	838.4	868.3	899.9	928.8	959.9	1002.0	1055.9	1124.1
27.5°	742.2	756.4	771.7	795.5	818.2	847.8	878.0	913.6	958.9	1015.8	1085.0
30°	713.0	723.5	737.9	768.4	789.0	814.5	850.0	881.7	923.8	984.3	1057.5
32.5°	682.8	696.4	712.2	735.6	761.0	785.2	817.6	851.9	895.0	954.6	1029.6
35°	639.8	655.8	671.9	689.1	714.6	739.6	766.8	804.5	848.3	906.0	979.8
37.5°	600.1	613.1	626.1	647.5	671.7	695.5	720.8	758.0	799.3	861.5	929.3
40°	574.8	586.4	596.5	618.6	642.0	667.5	692.4	725.2	769.6	827.9	893.3
42.5°	547.3	558.1	571.6	589.8	614.9	636.4	661.4	692.4	734.0	793.2	850.7
45°	506.0	518.2	529.9	547.1	572.0	593.1	615.3	644.7	687.5	736.3	787.3
47.5°	463.1	475.2	488.6	505.2	527.0	548.4	570.6	596.6	635.6	683.5	718.0
50°	435.5	445.6	458.9	475.5	495.5	518.2	538.2	566.5	603.6	641.4	671.3
52.5°	407.2	416.2	431.3	448.9	467.5	487.1	508.4	532.7	566.4	601.9	625.7
55°	362.9	374.0	386.7	403.9	422.2	438.9	459.4	484.4	511.0	537.6	553.8
57.5°	321.5	330.7	341.4	359.2	375.0	394.9	413.4	432.8	457.4	477.5	488.0
60°	291.3	299.6	313.5	329.1	344.0	361.2	382.3	401.7	420.5	436.7	445.0
62.5°	262.9	272.6	284.6	298.8	315.1	331.5	349.8	366.2	382.9	396.7	402.4
65°	225.8	233.6	242.5	255.8	269.1	285.8	300.2	316.8	329.1	336.8	341.8
67.5°	192.1	197.2	204.0	212.9	225.9	240.4	254.5	267.4	277.6	283.0	287.4
70°	170.3	173.7	178.6	187.5	197.5	210.3	224.7	234.2	243.0	247.4	251.9
72.5°	148.5	152.8	157.4	164.4	172.7	181.9	192.3	204.0	208.9	214.2	216.9
75°	112.6	118.7	124.8	129.3	134.9	142.0	151.5	158.7	161.4	165.9	166.5
77.5°	85.0	86.3	90.7	96.3	101.0	106.2	112.2	118.6	119.9	122.3	123.8
80°	69.9	69.9	69.9	73.2	78.8	82.7	88.2	91.6	93.8	94.3	94.9
82.5°	56.2	56.2	55.7	56.3	58.4	60.5	65.6	69.4	71.1	70.8	69.5
85°	36.6	35.5	35.5	35.0	35.5	34.4	33.8	36.0	39.4	39.4	38.3
87.5°	20.4	19.7	19.6	18.5	17.4	16.4	14.5	14.5	14.0	15.3	14.4
90°	26.3	25.4	22.3	19.2	16.2	13.1	10.4	8.1	5.8	3.4	1.1
92.5°	41.3	40.6	38.9	37.1	35.4	33.7	32.0	30.4	28.8	27.1	25.6
95°	79.2	78.3	76.4	74.5	72.6	70.8	69.0	67.3	65.7	64.0	62.4
97.5°	123.5	122.5	121.1	119.7	118.4	117.0	115.7	114.5	113.2	112.0	110.8
100°	156.1	155.5	154.3	153.1	151.9	150.7	149.4	148.1	146.6	145.2	143.8
102.5°	193.4	192.7	191.1	189.6	188.0	186.5	185.2	184.4	183.6	182.7	181.9
105°	249.6	249.6	247.4	245.3	243.2	241.1	239.8	239.3	238.9	238.4	237.9
107.5°	308.9	308.1	307.3	306.5	305.6	304.8	304.2	303.9	303.6	303.4	303.0
110°	348.9	347.9	347.4	347.0	346.5	346.0	345.5	345.0	344.6	344.1	343.6



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	388.8	387.7	387.6	387.4	387.3	387.3	387.1	386.8	386.5	386.2	386.0
115°	450.7	450.5	450.9	451.4	451.8	452.3	452.2	451.5	450.8	450.1	449.4
117.5°	512.6	512.7	513.2	513.9	514.5	515.1	515.2	514.7	514.2	513.7	513.3
120°	553.8	554.1	555.3	556.4	557.6	558.8	558.6	557.3	555.9	554.4	553.0
122.5°	595.7	596.4	597.0	597.6	598.2	598.8	598.6	597.6	596.6	595.5	594.5
125°	657.9	658.8	659.3	659.7	660.1	660.6	660.6	659.8	659.1	658.4	657.7
127.5°	719.2	720.6	721.1	721.5	722.1	722.6	722.1	720.6	719.1	717.6	716.1
130°	759.4	760.3	761.0	761.7	762.4	763.1	762.5	760.7	758.8	756.8	755.0
132.5°	798.9	800.1	800.5	801.1	801.6	802.1	801.4	799.6	797.7	795.8	793.9
135°	857.7	858.6	858.8	859.1	859.3	859.6	859.0	857.5	856.1	854.8	853.4
137.5°	915.3	916.4	915.7	915.2	914.5	914.0	913.1	911.8	910.7	909.5	908.3
140°	952.5	952.8	952.5	952.3	952.0	951.8	951.1	949.9	948.8	947.5	946.4
142.5°	988.1	988.3	987.8	987.4	987.0	986.6	985.8	984.6	983.4	982.3	981.0
145°	1040.2	1040.5	1039.8	1039.1	1038.4	1037.7	1037.1	1036.7	1036.2	1035.7	1035.2
147.5°	1089.3	1089.3	1088.7	1088.0	1087.4	1086.7	1086.0	1085.2	1084.3	1083.5	1082.6
150°	1119.8	1119.8	1119.3	1118.8	1118.4	1117.9	1117.4	1117.0	1116.6	1116.1	1115.6
152.5°	1147.3	1146.9	1146.6	1146.3	1146.1	1145.7	1145.3	1144.6	1143.9	1143.3	1142.6
155°	1187.4	1186.4	1186.2	1185.9	1185.7	1185.5	1185.4	1185.4	1185.4	1185.4	1185.4
157.5°	1222.3	1221.3	1221.2	1220.9	1220.7	1220.6	1220.6	1220.9	1221.2	1221.5	1221.7
160°	1243.7	1242.4	1242.4	1242.4	1242.4	1242.4	1242.7	1243.2	1243.7	1244.1	1244.6
162.5°	1264.0	1262.7	1262.6	1262.4	1262.2	1262.0	1262.2	1262.9	1263.6	1264.2	1264.9
165°	1289.3	1287.9	1287.9	1287.9	1287.9	1287.9	1288.3	1289.0	1289.7	1290.4	1291.1
167.5°	1310.1	1308.6	1308.5	1308.3	1308.1	1307.9	1308.3	1309.2	1310.2	1311.1	1312.1
170°	1321.3	1319.6	1319.6	1319.6	1319.6	1319.6	1320.1	1321.1	1322.0	1323.0	1323.9
172.5°	1330.4	1328.9	1328.9	1328.9	1328.9	1328.9	1329.4	1330.4	1331.3	1332.3	1333.2
175°	1340.1	1338.7	1338.7	1338.7	1338.7	1338.7	1339.1	1340.1	1341.1	1342.0	1343.0
177.5°	1344.7	1343.5	1343.5	1343.5	1343.5	1343.5	1343.9	1344.7	1345.4	1346.2	1347.0
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1303.2	1308.1	1314.3	1323.6	1330.7	1336.9	1338.2	1340.0	1344.5	1352.0	1357.8
5°	1311.7	1324.4	1344.9	1364.9	1386.6	1404.3	1420.9	1432.6	1443.7	1467.0	1485.9
7.5°	1309.0	1337.4	1369.5	1405.4	1441.7	1476.8	1509.5	1538.7	1567.7	1601.7	1640.5
10°	1307.2	1340.5	1383.7	1429.8	1480.3	1529.7	1577.4	1614.6	1657.8	1696.7	1746.0
12.5°	1298.8	1346.7	1398.4	1457.3	1519.4	1576.3	1639.1	1690.4	1740.0	1796.1	1853.5
15°	1287.8	1346.1	1411.5	1489.7	1584.0	1652.9	1717.2	1806.5	1867.6	1928.6	2010.8
17.5°	1267.7	1338.8	1420.6	1522.2	1600.9	1693.4	1790.2	1860.8	1943.0	2029.0	2103.4
20°	1251.7	1334.4	1426.0	1525.8	1626.2	1726.6	1820.4	1904.8	1989.7	2089.0	2150.0
22.5°	1235.7	1317.5	1412.6	1518.7	1626.7	1732.4	1838.6	1937.6	2033.1	2133.3	2211.3
25°	1201.8	1298.9	1402.1	1510.3	1616.8	1733.3	1859.8	1970.3	2088.4	2191.6	2265.4
27.5°	1167.3	1256.4	1359.1	1468.8	1587.3	1725.0	1873.8	1999.3	2117.7	2191.6	2214.8
30°	1136.3	1230.6	1324.9	1436.5	1564.6	1718.3	1876.5	2020.1	2117.3	2149.5	2125.6
32.5°	1104.8	1190.3	1283.7	1397.8	1534.0	1701.9	1880.0	2007.8	2066.2	2041.6	1944.5
35°	1049.2	1126.3	1216.8	1331.1	1487.5	1692.8	1865.4	1951.9	1937.5	1798.8	1615.7
37.5°	989.7	1052.6	1136.3	1255.8	1439.3	1656.8	1802.3	1815.1	1690.3	1477.3	1265.8
40°	942.6	999.2	1085.2	1210.1	1402.1	1621.2	1738.9	1687.3	1493.6	1256.7	1080.3
42.5°	896.9	944.7	1027.5	1162.1	1366.6	1572.9	1644.3	1531.9	1308.6	1084.5	924.1
45°	819.5	864.5	947.6	1085.8	1293.9	1480.3	1470.9	1275.5	1052.0	871.6	738.5
47.5°	746.0	785.3	863.4	1004.4	1208.5	1341.6	1253.4	1045.5	855.9	711.2	616.2
50°	694.1	733.0	810.7	949.9	1140.2	1237.3	1111.3	911.0	737.4	617.5	542.1
52.5°	644.4	682.3	753.3	889.1	1057.6	1115.7	980.4	794.8	650.0	546.5	481.7
55°	574.8	603.6	667.5	797.3	923.2	936.5	799.5	644.2	524.9	452.7	408.4
57.5°	503.9	528.7	591.8	695.2	783.5	776.7	646.7	512.3	432.0	378.4	346.3
60°	457.7	482.2	537.6	626.4	693.0	669.7	550.4	442.2	373.4	334.0	308.5
62.5°	414.7	433.7	485.7	550.5	598.4	572.0	470.5	381.0	326.4	293.2	273.0
65°	352.3	367.9	409.4	443.3	469.9	444.4	360.1	297.9	258.5	235.2	221.4
67.5°	293.1	303.0	329.2	341.4	360.2	332.2	270.8	229.2	206.8	187.1	177.4
70°	255.8	263.0	276.9	286.8	291.9	263.0	217.5	186.9	168.1	154.3	148.1
72.5°	218.5	224.9	227.6	235.8	233.3	206.2	174.9	150.6	137.1	127.6	119.8
75°	167.0	169.7	167.0	163.7	156.5	137.6	115.9	103.8	93.8	89.4	86.6
77.5°	121.7	120.8	117.1	111.9	99.5	87.6	76.0	71.9	67.6	65.2	64.2
80°	93.8	91.6	88.2	79.9	69.4	61.1	58.3	55.5	53.8	51.0	50.5
82.5°	69.8	68.5	62.9	55.9	48.5	44.6	42.3	41.3	39.6	38.2	38.1
85°	37.2	35.5	29.4	25.5	24.4	23.3	22.7	22.7	20.5	20.0	20.0
87.5°	12.6	10.4	10.5	9.6	10.2	9.9	10.9	10.7	10.8	11.5	10.8
90°	3.4	5.8	8.1	10.4	13.1	16.2	19.2	22.3	25.4	26.3	27.2
92.5°	27.1	28.8	30.4	32.0	33.7	35.4	37.1	38.9	40.6	41.3	42.1
95°	64.0	65.7	67.3	69.0	70.8	72.6	74.5	76.4	78.3	79.2	80.1
97.5°	112.0	113.2	114.5	115.7	117.0	118.4	119.7	121.1	122.5	123.5	124.6
100°	145.2	146.6	148.1	149.4	150.7	151.9	153.1	154.3	155.5	156.1	156.9
102.5°	182.7	183.6	184.4	185.2	186.5	188.0	189.6	191.1	192.7	193.4	194.0
105°	238.4	238.9	239.3	239.8	241.1	243.2	245.3	247.4	249.6	249.6	249.6
107.5°	303.4	303.6	303.9	304.2	304.8	305.6	306.5	307.3	308.1	308.9	309.7
110°	344.1	344.6	345.0	345.5	346.0	346.5	347.0	347.4	347.9	348.9	349.8



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	386.2	386.5	386.8	387.1	387.3	387.3	387.4	387.6	387.7	388.8	389.9
115°	450.1	450.8	451.5	452.2	452.3	451.8	451.4	450.9	450.5	450.7	450.9
117.5°	513.7	514.2	514.7	515.2	515.1	514.5	513.9	513.2	512.7	512.6	512.6
120°	554.4	555.9	557.3	558.6	558.8	557.6	556.4	555.3	554.1	553.8	553.6
122.5°	595.5	596.6	597.6	598.6	598.8	598.2	597.6	597.0	596.4	595.7	595.2
125°	658.4	659.1	659.8	660.6	660.6	660.1	659.7	659.3	658.8	657.9	656.9
127.5°	717.6	719.1	720.6	722.1	722.6	722.1	721.5	721.1	720.6	719.2	717.9
130°	756.8	758.8	760.7	762.5	763.1	762.4	761.7	761.0	760.3	759.4	758.4
132.5°	795.8	797.7	799.6	801.4	802.1	801.6	801.1	800.5	800.1	798.9	797.8
135°	854.8	856.1	857.5	859.0	859.6	859.3	859.1	858.8	858.6	857.7	856.7
137.5°	909.5	910.7	911.8	913.1	914.0	914.5	915.2	915.7	916.4	915.3	914.4
140°	947.5	948.8	949.9	951.1	951.8	952.0	952.3	952.5	952.8	952.5	952.3
142.5°	982.3	983.4	984.6	985.8	986.6	987.0	987.4	987.8	988.3	988.1	987.8
145°	1035.7	1036.2	1036.7	1037.1	1037.7	1038.4	1039.1	1039.8	1040.5	1040.2	1040.0
147.5°	1083.5	1084.3	1085.2	1086.0	1086.7	1087.4	1088.0	1088.7	1089.3	1089.3	1089.3
150°	1116.1	1116.6	1117.0	1117.4	1117.9	1118.4	1118.8	1119.3	1119.8	1119.8	1119.8
152.5°	1143.3	1143.9	1144.6	1145.3	1145.7	1146.1	1146.3	1146.6	1146.9	1147.3	1147.6
155°	1185.4	1185.4	1185.4	1185.4	1185.5	1185.7	1185.9	1186.2	1186.4	1187.4	1188.3
157.5°	1221.5	1221.2	1220.9	1220.6	1220.6	1220.7	1220.9	1221.2	1221.3	1222.3	1223.3
160°	1244.1	1243.7	1243.2	1242.7	1242.4	1242.4	1242.4	1242.4	1242.4	1243.7	1244.8
162.5°	1264.2	1263.6	1262.9	1262.2	1262.0	1262.2	1262.4	1262.6	1262.7	1264.0	1265.1
165°	1290.4	1289.7	1289.0	1288.3	1287.9	1287.9	1287.9	1287.9	1287.9	1289.3	1290.8
167.5°	1311.1	1310.2	1309.2	1308.3	1307.9	1308.1	1308.3	1308.5	1308.6	1310.1	1311.6
170°	1323.0	1322.0	1321.1	1320.1	1319.6	1319.6	1319.6	1319.6	1319.6	1321.3	1323.0
172.5°	1332.3	1331.3	1330.4	1329.4	1328.9	1328.9	1328.9	1328.9	1328.9	1330.4	1331.9
175°	1342.0	1341.1	1340.1	1339.1	1338.7	1338.7	1338.7	1338.7	1338.7	1340.1	1341.5
177.5°	1346.2	1345.4	1344.7	1343.9	1343.5	1343.5	1343.5	1343.5	1343.5	1344.7	1345.8
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1	1296.1
2.5°	1367.1	1367.1	1368.9	1375.6	1376.5	1382.2	1380.5
5°	1502.5	1513.0	1516.9	1533.6	1543.5	1548.0	1539.1
7.5°	1668.1	1697.8	1711.9	1729.3	1744.7	1749.4	1737.3
10°	1788.8	1819.8	1845.9	1862.1	1877.0	1887.0	1899.7
12.5°	1905.5	1943.7	1968.5	1991.2	2006.6	2019.3	2021.4
15°	2032.4	2090.1	2133.9	2166.1	2182.1	2190.5	2187.2
17.5°	2160.3	2213.8	2245.0	2277.9	2300.1	2301.3	2301.9
20°	2232.7	2284.8	2320.9	2345.3	2370.2	2369.2	2374.7
22.5°	2281.0	2322.1	2349.8	2367.5	2376.0	2371.8	2372.9
25°	2303.7	2315.9	2310.9	2282.6	2275.4	2249.3	2253.7
27.5°	2187.0	2129.2	2069.6	1992.8	1932.2	1883.7	1886.2
30°	2028.5	1926.4	1809.9	1712.2	1624.6	1600.2	1548.0
32.5°	1807.0	1653.8	1517.4	1426.4	1351.1	1330.7	1285.2
35°	1431.5	1282.8	1142.4	1058.1	1024.7	978.2	977.6
37.5°	1112.6	981.7	907.5	844.2	811.1	782.9	780.1
40°	936.0	833.9	777.9	732.4	699.7	678.6	673.6
42.5°	812.6	730.0	677.6	649.4	624.2	613.3	605.2
45°	663.6	608.1	571.4	545.9	534.3	525.9	521.5
47.5°	555.1	517.9	492.9	476.0	466.5	457.7	460.1
50°	496.0	465.5	447.2	431.1	423.9	417.8	418.3
52.5°	448.5	421.1	406.3	394.7	385.7	381.4	379.3
55°	380.6	363.4	348.5	340.1	335.1	329.1	327.3
57.5°	324.7	311.4	299.1	289.8	288.5	282.7	283.4
60°	287.4	276.3	266.4	261.3	257.5	252.4	254.1
62.5°	256.8	247.4	238.4	234.2	230.4	226.7	227.5
65°	210.3	201.4	195.8	193.6	192.0	190.3	188.7
67.5°	167.5	162.2	158.7	153.9	150.5	149.9	148.2
70°	141.0	133.7	127.6	121.5	119.8	119.3	119.8
72.5°	113.0	108.4	106.7	103.8	103.5	102.0	103.0
75°	84.9	83.2	82.1	79.9	79.9	79.9	79.9
77.5°	62.6	61.6	60.9	60.5	59.9	59.1	59.0
80°	48.8	48.3	47.1	47.1	46.6	47.1	46.6
82.5°	36.9	36.8	35.6	35.6	35.1	34.7	35.1
85°	18.8	18.3	19.4	18.3	18.8	17.8	18.8
87.5°	11.0	11.2	10.8	10.9	10.6	11.6	10.8
90°	28.2	29.1	29.8	30.3	30.8	31.2	31.7
92.5°	42.9	43.6	43.9	43.5	43.3	43.0	42.7
95°	81.0	82.0	82.5	82.5	82.5	82.5	82.5
97.5°	125.7	126.8	127.3	127.2	127.1	127.0	126.9
100°	157.5	158.2	158.8	159.3	159.8	160.3	160.7
102.5°	194.8	195.5	195.8	195.7	195.6	195.5	195.4
105°	249.6	249.6	249.8	250.3	250.7	251.2	251.7
107.5°	310.4	311.1	311.4	311.1	310.8	310.5	310.2
110°	350.7	351.6	351.9	351.4	351.0	350.5	350.0



TEST NUMBER: P332463-930

CATALOG NUMBER: S123RDIW-S1000D1320U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	391.0	392.2	392.6	392.6	392.5	392.4	392.3
115°	451.2	451.4	451.4	451.2	450.9	450.7	450.5
117.5°	512.5	512.4	512.1	511.4	510.8	510.1	509.5
120°	553.4	553.2	552.8	552.4	551.9	551.4	550.9
122.5°	594.5	593.9	593.3	592.6	592.0	591.3	590.7
125°	656.0	655.0	654.1	653.1	652.2	651.3	650.3
127.5°	716.6	715.3	714.0	713.0	711.9	710.9	709.7
130°	757.5	756.5	755.2	753.6	752.0	750.3	748.7
132.5°	796.6	795.6	794.3	793.0	791.8	790.5	789.3
135°	855.8	854.8	854.2	853.7	853.2	852.7	852.3
137.5°	913.4	912.4	911.5	910.6	909.7	908.8	907.9
140°	952.0	951.8	950.9	949.3	947.5	945.9	944.3
142.5°	987.6	987.3	986.6	985.3	984.1	982.8	981.5
145°	1039.8	1039.6	1039.0	1038.0	1037.1	1036.2	1035.2
147.5°	1089.3	1089.3	1088.7	1087.3	1085.8	1084.4	1083.0
150°	1119.8	1119.8	1119.1	1117.7	1116.3	1114.8	1113.5
152.5°	1148.0	1148.3	1147.9	1146.7	1145.5	1144.3	1143.0
155°	1189.3	1190.2	1189.8	1188.2	1186.6	1184.9	1183.2
157.5°	1224.3	1225.3	1225.1	1223.8	1222.5	1221.2	1219.9
160°	1246.0	1247.2	1247.3	1246.3	1245.5	1244.5	1243.5
162.5°	1266.3	1267.5	1267.3	1265.8	1264.3	1262.8	1261.3
165°	1292.2	1293.6	1293.5	1291.8	1290.2	1288.5	1286.9
167.5°	1313.0	1314.5	1314.5	1313.0	1311.6	1310.1	1308.6
170°	1324.6	1326.2	1326.2	1324.6	1323.0	1321.3	1319.6
172.5°	1333.3	1334.8	1334.7	1333.1	1331.4	1329.8	1328.1
175°	1343.0	1344.3	1344.2	1342.6	1340.9	1339.3	1337.7
177.5°	1347.0	1348.1	1348.0	1346.6	1345.3	1344.0	1342.7
180°	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1	1346.1

(END OF REPORT)