

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: P332204-930

Luminaire Tested: **S123DIW-S1000D1535U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332204-930
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: S123DIW-S1000D1535U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1535 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8463.8 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

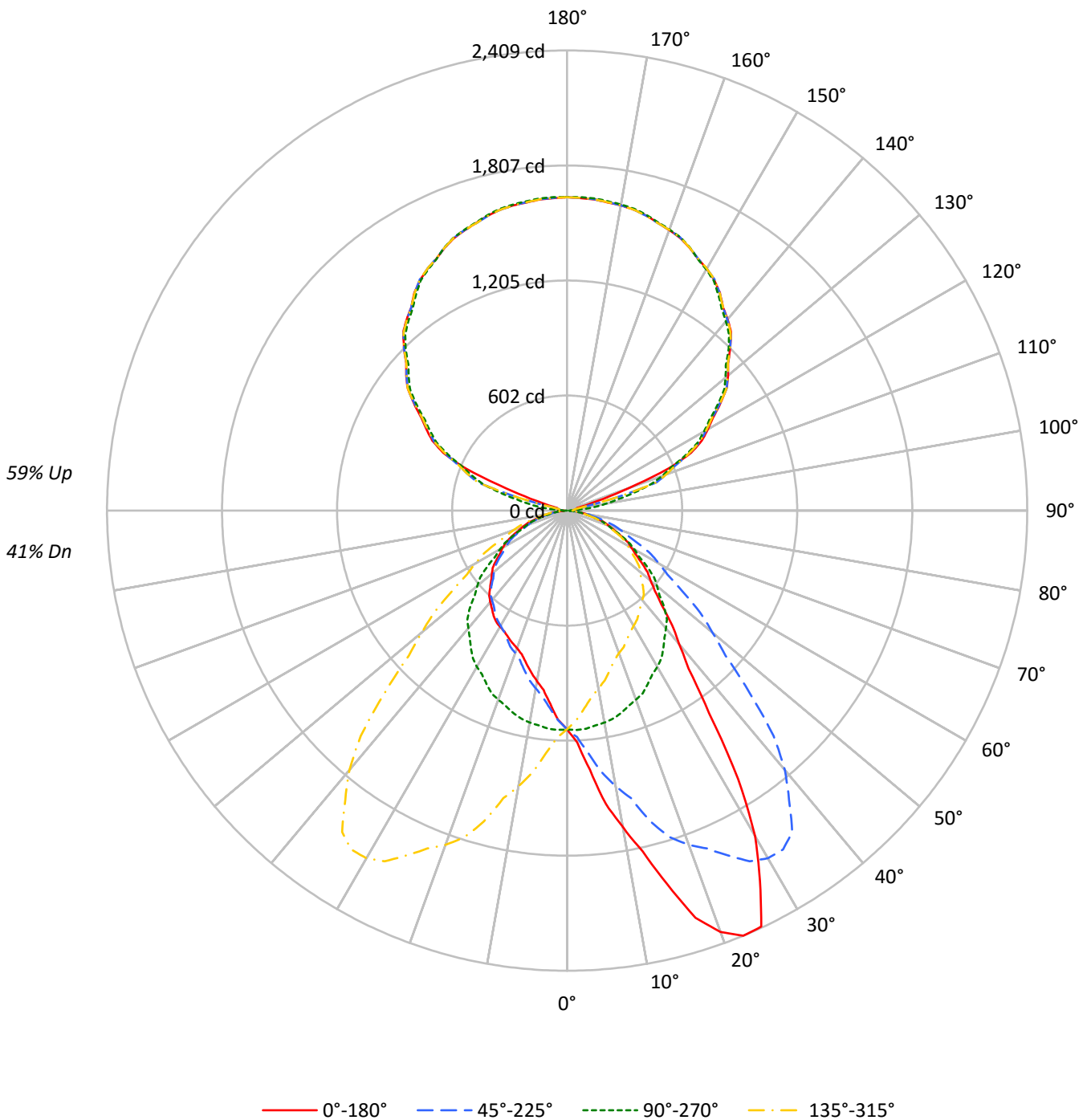
Input Watts (W): 76.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

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	50	30	10	0																			
RCR																																														
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41																												
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41	35																												
2	88	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30																												
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	34	31	30	25																												
4	73	63	55	49	66	57	51	46	48	43	39	39	35	32	30	28	26	22																												
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	22	19																												
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	25	22	20	17																												
7	57	45	37	32	52	42	35	30	35	30	26	28	25	22	22	20	18	15																												
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16	13																												
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12																												
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11																												

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12326	12326	12326	12326
5°	14699	12379	10970	12379
10°	18398	12316	9908	12316
15°	22566	12217	9225	12217
20°	26882	12062	8782	12062
25°	28544	11873	8684	11873
30°	24467	11737	8730	11737
35°	17015	11540	8821	11540
40°	12816	11311	8793	11311
45°	10641	10971	8681	10971
50°	9532	10275	8602	10275
55°	8912	9526	8496	9526
60°	8359	8742	8409	8742
65°	7857	7969	8140	7969
70°	7371	7091	7751	7091
75°	6600	6209	7107	6209
80°	5777	5089	6118	5089
85°	4520	3693	4113	3693



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	1.3
10°-20°	361.7	4.3
20°-30°	607.1	7.2
30°-40°	687.4	8.1
40°-50°	616.4	7.3
50°-60°	497.4	5.9
60°-70°	346.6	4.1
70°-80°	182.2	2.2
80°-90°	49.2	0.6
90°-100°	59.6	0.7
100°-110°	284.3	3.4
110°-120°	682.8	8.1
120°-130°	869.5	10.3
130°-140°	929.1	11.0
140°-150°	868.8	10.3
150°-160°	700.8	8.3
160°-170°	452.3	5.3
170°-180°	155.9	1.8
0°-30°	1081.6	12.8
0°-40°	1768.9	20.9
0°-60°	2882.8	34.1
0°-90°	3460.8	40.9
90°-120°	1026.8	12.1
90°-150°	3694.1	43.6
90°-180°	5003.0	59.1
0°-180°	8463.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1360	1146	1015	1146	1360	141
15°	2025	1096	828	1096	2025	585
25°	2403	1000	731	1000	2403	1054
35°	1295	878	671	878	1295	841
45°	699	721	570	721	699	553
55°	475	508	453	508	475	426
65°	308	313	320	313	308	307
75°	159	149	171	149	159	170
85°	37	30	33	30	37	44
90°	36	1	36	1	36	18
95°	46	74	46	74	46	39
105°	54	363	54	363	54	123
115°	717	681	717	681	717	662
125°	980	960	980	960	980	875
135°	1208	1196	1208	1196	1208	931
145°	1393	1380	1393	1380	1393	870
155°	1518	1520	1518	1520	1518	700
165°	1599	1603	1599	1603	1599	452
175°	1634	1640	1634	1640	1634	156
180°	1640	1640	1640	1640	1640	



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1215.2	1214.4	1212.1	1213.9	1210.4	1205.5	1205.0	1200.6	1187.7	1186.8	1183.3
5°	1360.4	1355.9	1355.4	1354.9	1347.0	1336.5	1316.5	1314.9	1288.3	1275.0	1258.8
7.5°	1548.3	1550.7	1542.5	1535.5	1511.7	1496.1	1474.6	1447.2	1414.5	1381.4	1359.3
10°	1683.3	1701.6	1678.9	1663.3	1648.9	1621.7	1590.1	1550.7	1511.3	1465.3	1430.3
12.5°	1828.0	1837.0	1832.4	1817.8	1795.4	1754.0	1697.9	1654.6	1618.3	1541.6	1510.6
15°	2025.0	2058.9	2037.3	1987.3	1988.4	1949.1	1875.8	1795.4	1752.6	1685.5	1594.0
17.5°	2235.0	2239.2	2230.0	2188.3	2160.6	2106.5	2038.9	1961.8	1875.3	1794.0	1697.0
20°	2346.8	2343.5	2324.1	2302.4	2254.7	2212.6	2138.8	2052.8	1941.8	1861.9	1756.0
22.5°	2409.0	2403.4	2394.2	2376.1	2336.4	2291.2	2224.9	2130.9	2025.3	1915.2	1792.8
25°	2403.4	2410.6	2411.7	2406.8	2392.9	2365.7	2313.5	2238.6	2133.2	1991.8	1864.2
27.5°	2185.9	2196.2	2225.8	2252.1	2281.5	2311.5	2307.5	2270.3	2192.3	2070.0	1914.1
30°	1968.5	1946.3	2001.2	2070.5	2117.7	2200.9	2247.5	2250.3	2206.4	2101.6	1949.5
32.5°	1666.6	1691.0	1715.3	1800.7	1903.7	1997.2	2089.9	2164.6	2173.2	2103.4	1970.4
35°	1294.9	1325.4	1369.8	1414.2	1525.2	1620.6	1783.7	1925.7	2038.9	2053.9	1972.3
37.5°	1043.5	1058.6	1086.6	1131.1	1203.7	1316.9	1443.1	1622.6	1786.6	1908.5	1913.8
40°	912.1	916.6	948.2	982.0	1040.8	1134.0	1247.7	1406.4	1602.8	1773.2	1844.2
42.5°	813.6	823.3	836.7	869.3	916.1	986.2	1091.9	1223.1	1403.1	1599.1	1738.1
45°	699.0	710.1	718.4	740.1	773.4	820.5	894.4	1014.2	1151.2	1353.7	1540.7
47.5°	623.4	624.3	630.5	646.8	669.4	704.8	757.0	834.0	959.8	1124.1	1316.0
50°	569.2	578.1	580.3	593.0	610.8	636.9	680.2	745.7	848.9	993.1	1169.5
52.5°	531.1	533.7	540.0	549.2	564.7	585.0	622.5	673.8	754.7	877.7	1039.9
55°	474.9	474.9	481.0	488.2	497.1	515.4	540.4	578.1	639.7	735.2	869.4
57.5°	423.0	425.7	430.1	432.3	439.9	451.9	472.8	501.4	547.4	620.9	727.6
60°	388.3	393.4	392.8	397.2	403.9	413.4	431.0	454.4	495.5	554.2	644.2
62.5°	358.2	357.8	357.8	363.1	369.7	378.7	390.3	410.4	445.3	497.4	574.0
65°	308.5	307.4	311.3	314.5	316.8	323.4	332.3	350.1	373.4	412.2	471.6
67.5°	264.3	261.1	263.2	264.3	268.1	273.3	281.6	292.6	311.1	342.3	387.0
70°	234.2	231.4	230.8	231.9	235.2	239.1	245.2	255.8	273.0	297.9	330.7
72.5°	203.1	201.1	201.1	203.5	205.0	207.6	211.9	221.6	235.2	254.0	284.5
75°	158.7	158.7	158.7	159.2	160.9	163.1	166.4	171.5	182.0	195.3	215.8
77.5°	119.0	118.9	118.1	118.1	120.5	121.5	122.3	126.9	132.8	141.8	156.8
80°	93.2	90.4	91.6	93.2	94.3	94.9	96.5	97.7	102.6	107.6	118.1
82.5°	69.2	66.9	67.1	69.7	69.9	70.4	72.2	73.7	75.6	80.1	85.8
85°	36.6	36.6	37.2	37.2	37.7	37.2	38.8	39.4	39.4	42.2	45.5
87.5°	20.6	19.6	20.0	20.3	19.7	20.1	20.2	20.5	20.7	21.0	20.7
90°	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4	30.3	29.3	25.8
92.5°	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7	32.9	31.2	28.5
95°	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6	39.7	37.7	34.8
97.5°	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6	41.4	39.2	58.8
100°	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5	42.4	40.2	82.5
102.5°	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8	73.5	80.2	126.4
105°	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0	219.0	266.9	291.3
107.5°	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9	454.1	489.3	485.4
110°	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8	540.8	549.7	546.7



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5	611.3	611.1	608.1
115°	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1	702.3	699.6	697.2
117.5°	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8	787.6	785.5	784.2
120°	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4	843.2	841.0	840.2
122.5°	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6	898.1	896.6	895.5
125°	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2	975.7	975.1	974.0
127.5°	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9	1052.0	1051.2	1049.9
130°	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1	1098.0	1097.0	1095.9
132.5°	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0	1141.9	1140.8	1140.0
135°	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9	1206.8
137.5°	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8	1267.5	1266.2	1265.6
140°	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4	1305.3	1304.2	1303.3
142.5°	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0	1341.1	1340.3	1339.5
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8	1391.2	1390.7	1390.2
147.5°	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4	1435.9	1435.3	1434.8
150°	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7	1463.1	1462.6	1462.1
152.5°	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0	1487.0	1486.0	1485.7
155°	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4	1520.0	1518.7	1518.4
157.5°	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5	1548.8	1547.2	1547.5
160°	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1	1565.5	1563.8	1564.1
162.5°	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1	1580.3	1578.4	1578.7
165°	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2	1600.1	1597.9	1598.2
167.5°	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6	1613.6
170°	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3	1622.3
172.5°	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5	1630.4	1628.2	1627.9
175°	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5	1637.6	1635.7	1635.4
177.5°	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1	1640.4	1638.7	1638.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1180.6	1177.0	1173.5	1167.3	1162.0	1154.5	1152.2	1149.6	1141.6	1134.5	1129.1
5°	1252.7	1239.4	1220.0	1202.2	1187.8	1168.4	1157.3	1145.7	1129.0	1114.0	1101.9
7.5°	1328.2	1302.0	1271.9	1239.2	1208.8	1179.5	1155.8	1134.8	1111.5	1089.4	1072.2
10°	1388.1	1350.4	1308.2	1262.7	1223.9	1186.2	1154.5	1126.8	1096.8	1070.7	1049.1
12.5°	1456.5	1400.5	1342.4	1287.1	1241.2	1188.9	1150.6	1115.2	1081.3	1049.9	1025.6
15°	1537.3	1466.3	1397.6	1321.5	1251.6	1186.2	1140.7	1096.3	1056.9	1024.7	993.7
17.5°	1611.0	1530.6	1439.9	1347.5	1263.1	1185.5	1121.9	1071.6	1022.4	983.0	952.0
20°	1652.8	1561.2	1458.6	1362.6	1269.4	1182.8	1113.0	1053.0	999.7	958.1	923.2
22.5°	1688.7	1581.6	1475.4	1372.8	1268.9	1175.7	1096.5	1034.9	977.1	936.4	899.2
25°	1726.0	1597.8	1491.3	1370.9	1255.0	1158.5	1069.7	999.7	942.1	894.4	856.1
27.5°	1757.9	1596.8	1470.3	1340.8	1233.0	1136.2	1041.5	966.5	905.2	853.4	814.6
30°	1779.2	1599.0	1448.6	1320.5	1211.7	1111.8	1019.7	944.3	880.0	827.2	790.6
32.5°	1792.6	1597.6	1428.6	1292.0	1177.9	1089.6	996.2	918.1	852.0	800.1	764.8
35°	1800.3	1587.9	1394.2	1233.3	1123.5	1037.5	959.3	878.2	808.9	760.7	720.7
37.5°	1784.8	1567.3	1354.3	1176.7	1056.5	971.8	906.0	837.0	770.6	717.5	683.1
40°	1760.4	1554.0	1323.2	1136.8	1010.3	928.7	872.7	805.0	739.6	689.1	656.9
42.5°	1713.8	1526.9	1289.1	1092.4	962.4	880.8	829.2	772.7	710.7	663.3	631.1
45°	1600.0	1468.0	1237.8	1025.8	891.5	807.2	761.7	720.7	664.6	618.6	590.8
47.5°	1442.3	1379.3	1163.7	955.6	817.7	736.5	689.3	656.2	615.3	578.1	551.5
50°	1332.6	1306.6	1113.5	907.7	768.4	689.1	643.6	613.6	584.2	547.1	522.6
52.5°	1206.2	1222.2	1054.9	857.9	718.3	640.3	597.5	573.6	546.9	516.4	495.1
55°	1028.1	1086.3	953.7	774.5	643.6	569.2	528.7	507.6	492.1	469.4	451.0
57.5°	861.3	935.4	844.3	688.5	570.2	506.1	467.2	444.3	434.3	422.4	408.0
60°	762.3	835.5	766.2	630.8	521.0	459.9	425.5	406.1	396.2	387.8	375.6
62.5°	674.0	748.1	689.8	572.3	472.5	416.0	386.0	367.0	359.3	355.0	344.5
65°	552.6	616.4	577.6	481.0	403.3	353.4	326.2	312.9	305.7	304.0	297.3
67.5°	449.7	498.3	470.0	399.0	337.9	294.7	271.7	260.3	254.8	254.2	249.2
70°	382.3	427.8	406.1	341.8	289.0	255.2	235.2	225.3	221.9	221.4	218.6
72.5°	329.9	361.6	344.4	290.7	250.0	219.2	204.6	194.2	190.4	191.2	189.3
75°	244.1	268.0	258.0	220.8	188.1	168.1	155.9	149.3	145.9	147.6	145.4
77.5°	175.6	190.8	181.7	156.0	135.8	121.4	112.4	108.3	105.3	105.2	104.2
80°	132.6	141.5	136.5	120.9	104.3	92.1	84.9	82.1	80.5	79.9	79.3
82.5°	94.4	102.0	96.1	85.4	74.1	66.8	62.7	59.0	57.8	58.1	57.6
85°	47.7	50.5	48.3	41.6	37.2	33.8	31.6	29.9	28.9	29.4	28.3
87.5°	20.9	20.6	18.6	16.1	14.8	12.9	12.3	10.9	10.5	11.1	11.2
90°	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2	3.9	6.6	9.4
92.5°	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7	21.9	21.1	20.4
95°	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4	63.3	52.2	41.0
97.5°	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4	144.5	139.5	134.4
100°	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0	211.4	216.8	222.3
102.5°	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4	274.3	278.2	282.0
105°	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2	366.2	369.2	372.2
107.5°	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2	463.6	465.9	468.4
110°	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5	528.7	530.8	533.0



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0	590.9	592.9	594.8
115°	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3	683.0	684.6	686.2
117.5°	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8	772.8	774.8	776.8
120°	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4	828.8	831.3	833.7
122.5°	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0	884.9	887.0	888.9
125°	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4	962.6	964.8	966.9
127.5°	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5	1037.7	1039.9	1042.0
130°	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3	1084.5	1086.7	1088.8
132.5°	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2	1129.4	1131.6	1133.7
135°	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7	1197.3	1199.0	1200.6
137.5°	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2	1256.3	1258.3	1260.4
140°	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2	1294.9	1296.5	1298.1
142.5°	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3	1330.9	1332.5	1334.2
145°	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7	1381.6	1383.6	1385.4
147.5°	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3	1428.6	1429.8	1431.0
150°	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5	1457.3	1458.2	1459.0
152.5°	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9	1483.3	1483.6	1484.0
155°	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9	1519.4	1518.8	1518.3
157.5°	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7	1548.7	1548.6	1548.5
160°	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3	1565.9	1565.7	1565.5
162.5°	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8	1582.1	1581.4	1580.7
165°	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8	1602.0	1601.2	1600.4
167.5°	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4	1617.3	1616.2	1615.2
170°	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2	1626.1	1625.0	1623.9
172.5°	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0	1631.7	1630.4	1629.1
175°	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5	1639.2	1637.9	1636.6
177.5°	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5	1641.4	1640.4	1639.3
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1126.0	1122.9	1118.5	1111.8	1106.5	1098.0	1098.0	1099.4	1099.4	1098.9	1098.0
5°	1091.8	1083.5	1073.6	1061.9	1049.7	1037.5	1035.3	1030.9	1027.5	1025.2	1022.5
7.5°	1055.8	1041.1	1026.5	1010.2	995.3	983.0	974.4	967.4	962.8	957.9	954.4
10°	1031.4	1013.1	995.9	978.7	959.8	944.9	935.4	928.7	923.7	919.3	917.1
12.5°	1002.5	981.5	962.6	946.2	925.6	910.2	901.2	898.1	892.3	882.9	878.0
15°	960.3	940.9	918.2	893.2	883.2	864.4	853.9	848.9	845.5	838.3	836.1
17.5°	924.3	898.9	873.3	854.8	836.2	820.9	815.0	808.8	804.4	798.5	796.7
20°	895.4	872.7	849.4	829.4	810.0	793.4	788.4	783.9	779.5	776.7	774.5
22.5°	866.2	843.4	824.1	805.4	784.7	773.8	768.4	763.5	760.4	758.6	756.3
25°	825.0	805.0	783.4	766.7	750.1	742.9	739.6	736.8	734.6	731.8	731.2
27.5°	788.1	766.4	748.9	733.4	721.4	715.3	712.2	710.8	711.3	712.2	712.9
30°	760.7	740.7	726.3	712.9	701.8	696.3	695.7	695.7	698.0	698.5	699.6
32.5°	735.3	718.9	704.5	691.6	683.2	679.4	681.5	681.5	683.3	684.8	686.7
35°	698.5	684.0	672.9	661.9	654.7	656.3	657.5	658.5	661.3	664.6	666.9
37.5°	663.3	650.8	639.3	630.6	627.3	630.2	632.9	635.3	638.5	641.0	643.3
40°	638.1	628.6	617.5	609.8	610.8	612.5	614.7	617.5	620.3	621.9	624.2
42.5°	614.5	604.6	596.2	589.8	591.3	593.5	594.8	596.2	599.4	602.4	603.7
45°	578.7	570.9	563.1	559.2	560.4	561.5	562.6	564.3	567.0	569.2	569.8
47.5°	538.3	533.0	527.7	524.0	525.7	525.3	526.8	530.3	531.2	532.5	535.6
50°	512.7	507.6	501.6	500.4	500.4	500.4	501.0	505.4	505.4	507.6	509.9
52.5°	484.2	481.0	477.1	475.2	474.3	474.3	476.5	478.8	479.7	482.8	485.0
55°	442.2	438.9	435.5	433.8	432.8	433.8	438.3	439.4	442.2	443.8	445.5
57.5°	398.4	395.8	393.1	392.2	392.0	393.5	395.9	399.3	399.9	405.0	407.6
60°	369.5	365.6	363.4	363.4	362.3	367.3	366.2	371.7	372.8	376.2	380.0
62.5°	339.7	334.5	333.6	333.6	335.3	336.6	338.2	340.6	343.6	347.7	350.7
65°	291.8	289.0	292.9	292.4	291.3	294.6	294.6	297.3	300.7	304.6	310.7
67.5°	246.5	245.0	245.3	245.3	247.0	248.9	250.5	252.9	256.9	261.0	265.0
70°	215.8	217.5	214.7	217.0	218.6	219.2	220.3	223.6	228.0	230.8	235.2
72.5°	186.1	186.0	186.3	187.2	188.8	189.9	190.9	194.8	199.6	201.9	205.5
75°	143.2	142.6	144.2	144.2	147.0	148.1	149.3	150.9	155.3	158.7	161.4
77.5°	104.5	105.2	104.8	106.7	106.0	106.2	109.7	111.3	111.8	118.3	119.8
80°	78.8	79.9	80.5	81.0	81.5	80.5	84.3	86.0	86.0	89.8	92.6
82.5°	56.6	57.2	58.7	59.3	59.4	60.5	60.8	62.0	63.3	65.1	68.6
85°	28.3	29.9	30.5	29.9	30.5	29.4	31.1	31.6	32.2	32.2	32.2
87.5°	11.3	12.4	12.6	13.8	14.0	15.2	15.4	14.8	14.9	16.5	14.8
90°	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4	32.5	33.6	34.4
92.5°	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7	36.4	38.2	39.1
95°	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6	43.5	45.3	46.3
97.5°	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6	45.7	47.9	49.2
100°	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5	46.7	48.9	50.1
102.5°	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8	60.1	53.3	50.2
105°	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0	123.1	75.2	51.4
107.5°	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9	383.8	348.6	313.0
110°	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8	522.9	514.0	490.1



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5	611.6	611.8	607.8
115°	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1	707.8	710.5	712.3
117.5°	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8	791.9	794.1	795.3
120°	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4	847.5	849.7	850.8
122.5°	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6	901.2	902.7	903.5
125°	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2	976.7	977.2	977.8
127.5°	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9	1053.8	1054.6	1054.8
130°	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1	1100.2	1101.3	1101.6
132.5°	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0	1144.1	1145.2	1145.3
135°	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1
137.5°	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8	1270.1	1271.4	1271.7
140°	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4	1307.4	1308.5	1308.8
142.5°	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0	1342.9	1343.7	1343.8
145°	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8	1392.4	1392.9	1393.2
147.5°	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4	1437.0	1437.5	1437.1
150°	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7	1464.3	1464.8	1464.7
152.5°	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0	1489.0	1490.0	1489.8
155°	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4	1522.7	1524.1	1524.0
157.5°	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5	1552.1	1553.7	1553.5
160°	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1	1568.6	1570.3	1570.2
162.5°	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1	1584.0	1585.8	1585.8
165°	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2	1604.4	1606.6	1606.7
167.5°	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2
170°	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0
172.5°	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5	1634.7	1636.8	1636.7
175°	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5	1641.4	1643.3	1643.2
177.5°	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1	1643.8	1645.6	1645.4
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1094.9	1094.5	1097.6	1095.4	1097.6	1094.5	1094.9	1098.0	1098.9	1099.4	1099.4
5°	1019.2	1020.8	1015.3	1015.3	1015.3	1020.8	1019.2	1022.5	1025.2	1027.5	1030.9
7.5°	951.7	949.3	949.5	946.5	949.5	949.3	951.7	954.4	957.9	962.8	967.4
10°	910.4	907.1	906.0	906.5	906.0	907.1	910.4	917.1	919.3	923.7	928.7
12.5°	876.3	875.6	868.3	868.4	868.3	875.6	876.3	878.0	882.9	892.3	898.1
15°	836.1	825.6	824.4	827.8	824.4	825.6	836.1	836.1	838.3	845.5	848.9
17.5°	795.8	790.3	790.6	789.0	790.6	790.3	795.8	796.7	798.5	804.4	808.8
20°	774.5	771.2	770.6	766.7	770.6	771.2	774.5	774.5	776.7	779.5	783.9
22.5°	755.0	753.9	754.2	749.9	754.2	753.9	755.0	756.3	758.6	760.4	763.5
25°	730.7	733.4	731.2	731.2	731.2	733.4	730.7	731.2	731.8	734.6	736.8
27.5°	714.3	714.1	713.1	713.1	713.1	714.1	714.3	712.9	712.2	711.3	710.8
30°	701.8	701.2	702.4	702.4	702.4	701.2	701.8	699.6	698.5	698.0	695.7
32.5°	689.4	690.2	690.4	690.8	690.4	690.2	689.4	686.7	684.8	683.3	681.5
35°	670.2	670.7	672.5	671.3	672.5	670.7	670.2	666.9	664.6	661.3	658.5
37.5°	644.2	646.8	646.2	647.1	646.2	646.8	644.2	643.3	641.0	638.5	635.3
40°	624.7	626.4	625.8	625.8	625.8	626.4	624.7	624.2	621.9	620.3	617.5
42.5°	604.7	605.9	604.5	603.6	604.5	605.9	604.7	603.7	602.4	599.4	596.2
45°	572.0	570.9	572.6	570.3	572.6	570.9	572.0	569.8	569.2	567.0	564.3
47.5°	535.4	536.5	537.0	538.6	537.0	536.5	535.4	535.6	532.5	531.2	530.3
50°	510.9	514.3	514.3	513.7	514.3	514.3	510.9	509.9	507.6	505.4	505.4
52.5°	487.0	488.5	490.8	490.6	490.8	488.5	487.0	485.0	482.8	479.7	478.8
55°	450.0	451.0	452.2	452.7	452.2	451.0	450.0	445.5	443.8	442.2	439.4
57.5°	411.6	411.1	413.8	414.6	413.8	411.1	411.6	407.6	405.0	399.9	399.3
60°	384.5	384.5	388.9	390.6	388.9	384.5	384.5	380.0	376.2	372.8	371.7
62.5°	355.6	357.4	361.8	359.5	361.8	357.4	355.6	350.7	347.7	343.6	340.6
65°	313.5	317.9	317.3	319.6	317.3	317.9	313.5	310.7	304.6	300.7	297.3
67.5°	269.4	272.1	276.1	276.5	276.1	272.1	269.4	265.0	261.0	256.9	252.9
70°	239.7	242.5	244.7	246.3	244.7	242.5	239.7	235.2	230.8	228.0	223.6
72.5°	210.8	212.3	217.6	215.2	217.6	212.3	210.8	205.5	201.9	199.6	194.8
75°	165.3	169.2	172.5	170.9	172.5	169.2	165.3	161.4	158.7	155.3	150.9
77.5°	122.3	126.1	127.7	126.3	127.7	126.1	122.3	119.8	118.3	111.8	111.3
80°	96.5	96.0	99.3	98.7	99.3	96.0	96.5	92.6	89.8	86.0	86.0
82.5°	70.8	70.3	71.8	72.2	71.8	70.3	70.8	68.6	65.1	63.3	62.0
85°	34.4	36.0	33.8	33.3	33.8	36.0	34.4	32.2	32.2	32.2	31.6
87.5°	15.0	15.1	14.8	14.4	14.8	15.1	15.0	14.8	16.5	14.9	14.8
90°	35.0	35.5	36.0	36.5	36.0	35.5	35.0	34.4	33.6	32.5	31.4
92.5°	39.5	39.8	40.1	40.4	40.1	39.8	39.5	39.1	38.2	36.4	34.7
95°	46.3	46.3	46.3	46.3	46.3	46.3	46.3	46.3	45.3	43.5	41.6
97.5°	49.4	49.7	50.0	50.2	50.0	49.7	49.4	49.2	47.9	45.7	43.6
100°	50.4	50.6	51.0	51.2	51.0	50.6	50.4	50.1	48.9	46.7	44.5
102.5°	50.7	51.2	51.7	52.2	51.7	51.2	50.7	50.2	53.3	60.1	66.8
105°	52.0	52.6	53.1	53.6	53.1	52.6	52.0	51.4	75.2	123.1	171.0
107.5°	276.9	240.7	204.6	168.4	204.6	240.7	276.9	313.0	348.6	383.8	418.9
110°	451.3	412.6	373.9	335.2	373.9	412.6	451.3	490.1	514.0	522.9	531.8



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	599.6	591.4	583.3	575.0	583.3	591.4	599.6	607.8	611.8	611.6	611.5
115°	713.5	714.5	715.6	716.7	715.6	714.5	713.5	712.3	710.5	707.8	705.1
117.5°	795.5	795.7	796.0	796.1	796.0	795.7	795.5	795.3	794.1	791.9	789.8
120°	850.8	850.8	850.8	850.8	850.8	850.8	850.8	850.8	849.7	847.5	845.4
122.5°	903.8	903.9	904.2	904.4	904.2	903.9	903.8	903.5	902.7	901.2	899.6
125°	978.4	978.8	979.4	980.0	979.4	978.8	978.4	977.8	977.2	976.7	976.2
127.5°	1054.3	1053.7	1053.1	1052.6	1053.1	1053.7	1054.3	1054.8	1054.6	1053.8	1052.9
130°	1101.1	1100.5	1099.9	1099.4	1099.9	1100.5	1101.1	1101.6	1101.3	1100.2	1099.1
132.5°	1144.6	1143.9	1143.0	1142.3	1143.0	1143.9	1144.6	1145.3	1145.2	1144.1	1143.0
135°	1210.3	1209.5	1208.7	1207.9	1208.7	1209.5	1210.3	1211.1	1211.1	1210.3	1209.5
137.5°	1271.2	1270.6	1270.1	1269.6	1270.1	1270.6	1271.2	1271.7	1271.4	1270.1	1268.8
140°	1308.2	1307.7	1307.2	1306.6	1307.2	1307.7	1308.2	1308.8	1308.5	1307.4	1306.4
142.5°	1343.0	1342.2	1341.5	1340.8	1341.5	1342.2	1343.0	1343.8	1343.7	1342.9	1342.0
145°	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1393.2	1392.9	1392.4	1391.8
147.5°	1435.9	1434.7	1433.4	1432.2	1433.4	1434.7	1435.9	1437.1	1437.5	1437.0	1436.4
150°	1463.9	1463.1	1462.2	1461.4	1462.2	1463.1	1463.9	1464.7	1464.8	1464.3	1463.7
152.5°	1488.6	1487.3	1486.0	1484.8	1486.0	1487.3	1488.6	1489.8	1490.0	1489.0	1488.0
155°	1522.3	1520.7	1519.1	1517.5	1519.1	1520.7	1522.3	1524.0	1524.1	1522.7	1521.4
157.5°	1551.4	1549.2	1547.1	1545.0	1547.1	1549.2	1551.4	1553.5	1553.7	1552.1	1550.5
160°	1568.2	1566.4	1564.5	1562.6	1564.5	1566.4	1568.2	1570.2	1570.3	1568.6	1567.1
162.5°	1584.2	1582.5	1580.9	1579.2	1580.9	1582.5	1584.2	1585.8	1585.8	1584.0	1582.1
165°	1604.8	1603.0	1601.0	1599.1	1601.0	1603.0	1604.8	1606.7	1606.6	1604.4	1602.2
167.5°	1620.0	1617.9	1615.7	1613.6	1615.7	1617.9	1620.0	1622.2	1622.2	1620.0	1617.9
170°	1628.8	1626.6	1624.5	1622.3	1624.5	1626.6	1628.8	1631.0	1631.0	1628.8	1626.6
172.5°	1634.3	1632.0	1629.5	1627.2	1629.5	1632.0	1634.3	1636.7	1636.8	1634.7	1632.5
175°	1641.0	1638.8	1636.6	1634.5	1636.6	1638.8	1641.0	1643.2	1643.3	1641.4	1639.5
177.5°	1643.2	1641.0	1638.8	1636.7	1638.8	1641.0	1643.2	1645.4	1645.6	1643.8	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1098.0	1098.0	1106.5	1111.8	1118.5	1122.9	1126.0	1129.1	1134.5	1141.6	1149.6
5°	1035.3	1037.5	1049.7	1061.9	1073.6	1083.5	1091.8	1101.9	1114.0	1129.0	1145.7
7.5°	974.4	983.0	995.3	1010.2	1026.5	1041.1	1055.8	1072.2	1089.4	1111.5	1134.8
10°	935.4	944.9	959.8	978.7	995.9	1013.1	1031.4	1049.1	1070.7	1096.8	1126.8
12.5°	901.2	910.2	925.6	946.2	962.6	981.5	1002.5	1025.6	1049.9	1081.3	1115.2
15°	853.9	864.4	883.2	893.2	918.2	940.9	960.3	993.7	1024.7	1056.9	1096.3
17.5°	815.0	820.9	836.2	854.8	873.3	898.9	924.3	952.0	983.0	1022.4	1071.6
20°	788.4	793.4	810.0	829.4	849.4	872.7	895.4	923.2	958.1	999.7	1053.0
22.5°	768.4	773.8	784.7	805.4	824.1	843.4	866.2	899.2	936.4	977.1	1034.9
25°	739.6	742.9	750.1	766.7	783.4	805.0	825.0	856.1	894.4	942.1	999.7
27.5°	712.2	715.3	721.4	733.4	748.9	766.4	788.1	814.6	853.4	905.2	966.5
30°	695.7	696.3	701.8	712.9	726.3	740.7	760.7	790.6	827.2	880.0	944.3
32.5°	681.5	679.4	683.2	691.6	704.5	718.9	735.3	764.8	800.1	852.0	918.1
35°	657.5	656.3	654.7	661.9	672.9	684.0	698.5	720.7	760.7	808.9	878.2
37.5°	632.9	630.2	627.3	630.6	639.3	650.8	663.3	683.1	717.5	770.6	837.0
40°	614.7	612.5	610.8	609.8	617.5	628.6	638.1	656.9	689.1	739.6	805.0
42.5°	594.8	593.5	591.3	589.8	596.2	604.6	614.5	631.1	663.3	710.7	772.7
45°	562.6	561.5	560.4	559.2	563.1	570.9	578.7	590.8	618.6	664.6	720.7
47.5°	526.8	525.3	525.7	524.0	527.7	533.0	538.3	551.5	578.1	615.3	656.2
50°	501.0	500.4	500.4	500.4	501.6	507.6	512.7	522.6	547.1	584.2	613.6
52.5°	476.5	474.3	474.3	475.2	477.1	481.0	484.2	495.1	516.4	546.9	573.6
55°	438.3	433.8	432.8	433.8	435.5	438.9	442.2	451.0	469.4	492.1	507.6
57.5°	395.9	393.5	392.0	392.2	393.1	395.8	398.4	408.0	422.4	434.3	444.3
60°	366.2	367.3	362.3	363.4	363.4	365.6	369.5	375.6	387.8	396.2	406.1
62.5°	338.2	336.6	335.3	333.6	333.6	334.5	339.7	344.5	355.0	359.3	367.0
65°	294.6	294.6	291.3	292.4	292.9	289.0	291.8	297.3	304.0	305.7	312.9
67.5°	250.5	248.9	247.0	245.3	245.3	245.0	246.5	249.2	254.2	254.8	260.3
70°	220.3	219.2	218.6	217.0	214.7	217.5	215.8	218.6	221.4	221.9	225.3
72.5°	190.9	189.9	188.8	187.2	186.3	186.0	186.1	189.3	191.2	190.4	194.2
75°	149.3	148.1	147.0	144.2	144.2	142.6	143.2	145.4	147.6	145.9	149.3
77.5°	109.7	106.2	106.0	106.7	104.8	105.2	104.5	104.2	105.2	105.3	108.3
80°	84.3	80.5	81.5	81.0	80.5	79.9	78.8	79.3	79.9	80.5	82.1
82.5°	60.8	60.5	59.4	59.3	58.7	57.2	56.6	57.6	58.1	57.8	59.0
85°	31.1	29.4	30.5	29.9	30.5	29.9	28.3	28.3	29.4	28.9	29.9
87.5°	15.4	15.2	14.0	13.8	12.6	12.4	11.3	11.2	11.1	10.5	10.9
90°	30.3	29.3	25.8	22.2	18.7	15.2	12.1	9.4	6.6	3.9	1.2
92.5°	32.9	31.2	28.5	25.9	23.2	20.5	19.6	20.4	21.1	21.9	22.7
95°	39.7	37.7	34.8	31.8	28.9	25.8	29.9	41.0	52.2	63.3	74.4
97.5°	41.4	39.2	58.8	78.3	97.8	117.2	129.5	134.4	139.5	144.5	149.4
100°	42.4	40.2	82.5	124.7	167.0	209.2	227.6	222.3	216.8	211.4	206.0
102.5°	73.5	80.2	126.4	172.5	218.7	264.8	285.9	282.0	278.2	274.3	270.4
105°	219.0	266.9	291.3	315.7	340.1	364.4	375.1	372.2	369.2	366.2	363.2
107.5°	454.1	489.3	485.4	481.6	477.7	473.9	470.8	468.4	465.9	463.6	461.2
110°	540.8	549.7	546.7	543.7	540.8	537.8	535.2	533.0	530.8	528.7	526.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	611.3	611.1	608.1	605.2	602.2	599.2	596.7	594.8	592.9	590.9	589.0
115°	702.3	699.6	697.2	694.7	692.4	689.9	687.9	686.2	684.6	683.0	681.3
117.5°	787.6	785.5	784.2	782.9	781.7	780.5	778.9	776.8	774.8	772.8	770.8
120°	843.2	841.0	840.2	839.4	838.5	837.8	836.2	833.7	831.3	828.8	826.4
122.5°	898.1	896.6	895.5	894.5	893.5	892.5	891.0	888.9	887.0	884.9	883.0
125°	975.7	975.1	974.0	972.9	971.8	970.8	969.1	966.9	964.8	962.6	960.4
127.5°	1052.0	1051.2	1049.9	1048.6	1047.3	1045.9	1044.2	1042.0	1039.9	1037.7	1035.5
130°	1098.0	1097.0	1095.9	1094.8	1093.7	1092.7	1091.0	1088.8	1086.7	1084.5	1082.3
132.5°	1141.9	1140.8	1140.0	1139.1	1138.2	1137.4	1135.9	1133.7	1131.6	1129.4	1127.2
135°	1208.7	1207.9	1206.8	1205.7	1204.6	1203.5	1202.2	1200.6	1199.0	1197.3	1195.7
137.5°	1267.5	1266.2	1265.6	1264.9	1264.4	1263.8	1262.4	1260.4	1258.3	1256.3	1254.2
140°	1305.3	1304.2	1303.3	1302.5	1301.7	1300.9	1299.8	1298.1	1296.5	1294.9	1293.2
142.5°	1341.1	1340.3	1339.5	1338.6	1337.8	1337.0	1335.8	1334.2	1332.5	1330.9	1329.3
145°	1391.2	1390.7	1390.2	1389.6	1389.1	1388.5	1387.3	1385.4	1383.6	1381.6	1379.7
147.5°	1435.9	1435.3	1434.8	1434.3	1433.7	1433.1	1432.2	1431.0	1429.8	1428.6	1427.3
150°	1463.1	1462.6	1462.1	1461.6	1461.0	1460.4	1459.8	1459.0	1458.2	1457.3	1456.5
152.5°	1487.0	1486.0	1485.7	1485.4	1485.1	1484.7	1484.4	1484.0	1483.6	1483.3	1482.9
155°	1520.0	1518.7	1518.4	1518.2	1517.9	1517.6	1517.8	1518.3	1518.8	1519.4	1519.9
157.5°	1548.8	1547.2	1547.5	1547.8	1548.0	1548.3	1548.5	1548.5	1548.6	1548.7	1548.7
160°	1565.5	1563.8	1564.1	1564.3	1564.6	1564.9	1565.1	1565.5	1565.7	1565.9	1566.3
162.5°	1580.3	1578.4	1578.7	1579.0	1579.2	1579.5	1580.0	1580.7	1581.4	1582.1	1582.8
165°	1600.1	1597.9	1598.2	1598.5	1598.7	1599.0	1599.5	1600.4	1601.2	1602.0	1602.8
167.5°	1615.7	1613.6	1613.6	1613.6	1613.6	1613.6	1614.0	1615.2	1616.2	1617.3	1618.4
170°	1624.5	1622.3	1622.3	1622.3	1622.3	1622.3	1622.9	1623.9	1625.0	1626.1	1627.2
172.5°	1630.4	1628.2	1627.9	1627.7	1627.5	1627.3	1627.8	1629.1	1630.4	1631.7	1633.0
175°	1637.6	1635.7	1635.4	1635.2	1634.9	1634.6	1635.2	1636.6	1637.9	1639.2	1640.5
177.5°	1640.4	1638.7	1638.4	1638.2	1638.0	1637.8	1638.2	1639.3	1640.4	1641.4	1642.5
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1152.2	1154.5	1162.0	1167.3	1173.5	1177.0	1180.6	1183.3	1186.8	1187.7	1200.6
5°	1157.3	1168.4	1187.8	1202.2	1220.0	1239.4	1252.7	1258.8	1275.0	1288.3	1314.9
7.5°	1155.8	1179.5	1208.8	1239.2	1271.9	1302.0	1328.2	1359.3	1381.4	1414.5	1447.2
10°	1154.5	1186.2	1223.9	1262.7	1308.2	1350.4	1388.1	1430.3	1465.3	1511.3	1550.7
12.5°	1150.6	1188.9	1241.2	1287.1	1342.4	1400.5	1456.5	1510.6	1541.6	1618.3	1654.6
15°	1140.7	1186.2	1251.6	1321.5	1397.6	1466.3	1537.3	1594.0	1685.5	1752.6	1795.4
17.5°	1121.9	1185.5	1263.1	1347.5	1439.9	1530.6	1611.0	1697.0	1794.0	1875.3	1961.8
20°	1113.0	1182.8	1269.4	1362.6	1458.6	1561.2	1652.8	1756.0	1861.9	1941.8	2052.8
22.5°	1096.5	1175.7	1268.9	1372.8	1475.4	1581.6	1688.7	1792.8	1915.2	2025.3	2130.9
25°	1069.7	1158.5	1255.0	1370.9	1491.3	1597.8	1726.0	1864.2	1991.8	2133.2	2238.6
27.5°	1041.5	1136.2	1233.0	1340.8	1470.3	1596.8	1757.9	1914.1	2070.0	2192.3	2270.3
30°	1019.7	1111.8	1211.7	1320.5	1448.6	1599.0	1779.2	1949.5	2101.6	2206.4	2250.3
32.5°	996.2	1089.6	1177.9	1292.0	1428.6	1597.6	1792.6	1970.4	2103.4	2173.2	2164.6
35°	959.3	1037.5	1123.5	1233.3	1394.2	1587.9	1800.3	1972.3	2053.9	2038.9	1925.7
37.5°	906.0	971.8	1056.5	1176.7	1354.3	1567.3	1784.8	1913.8	1908.5	1786.6	1622.6
40°	872.7	928.7	1010.3	1136.8	1323.2	1554.0	1760.4	1844.2	1773.2	1602.8	1406.4
42.5°	829.2	880.8	962.4	1092.4	1289.1	1526.9	1713.8	1738.1	1599.1	1403.1	1223.1
45°	761.7	807.2	891.5	1025.8	1237.8	1468.0	1600.0	1540.7	1353.7	1151.2	1014.2
47.5°	689.3	736.5	817.7	955.6	1163.7	1379.3	1442.3	1316.0	1124.1	959.8	834.0
50°	643.6	689.1	768.4	907.7	1113.5	1306.6	1332.6	1169.5	993.1	848.9	745.7
52.5°	597.5	640.3	718.3	857.9	1054.9	1222.2	1206.2	1039.9	877.7	754.7	673.8
55°	528.7	569.2	643.6	774.5	953.7	1086.3	1028.1	869.4	735.2	639.7	578.1
57.5°	467.2	506.1	570.2	688.5	844.3	935.4	861.3	727.6	620.9	547.4	501.4
60°	425.5	459.9	521.0	630.8	766.2	835.5	762.3	644.2	554.2	495.5	454.4
62.5°	386.0	416.0	472.5	572.3	689.8	748.1	674.0	574.0	497.4	445.3	410.4
65°	326.2	353.4	403.3	481.0	577.6	616.4	552.6	471.6	412.2	373.4	350.1
67.5°	271.7	294.7	337.9	399.0	470.0	498.3	449.7	387.0	342.3	311.1	292.6
70°	235.2	255.2	289.0	341.8	406.1	427.8	382.3	330.7	297.9	273.0	255.8
72.5°	204.6	219.2	250.0	290.7	344.4	361.6	329.9	284.5	254.0	235.2	221.6
75°	155.9	168.1	188.1	220.8	258.0	268.0	244.1	215.8	195.3	182.0	171.5
77.5°	112.4	121.4	135.8	156.0	181.7	190.8	175.6	156.8	141.8	132.8	126.9
80°	84.9	92.1	104.3	120.9	136.5	141.5	132.6	118.1	107.6	102.6	97.7
82.5°	62.7	66.8	74.1	85.4	96.1	102.0	94.4	85.8	80.1	75.6	73.7
85°	31.6	33.8	37.2	41.6	48.3	50.5	47.7	45.5	42.2	39.4	39.4
87.5°	12.3	12.9	14.8	16.1	18.6	20.6	20.9	20.7	21.0	20.7	20.5
90°	3.9	6.6	9.4	12.1	15.2	18.7	22.2	25.8	29.3	30.3	31.4
92.5°	21.9	21.1	20.4	19.6	20.5	23.2	25.9	28.5	31.2	32.9	34.7
95°	63.3	52.2	41.0	29.9	25.8	28.9	31.8	34.8	37.7	39.7	41.6
97.5°	144.5	139.5	134.4	129.5	117.2	97.8	78.3	58.8	39.2	41.4	43.6
100°	211.4	216.8	222.3	227.6	209.2	167.0	124.7	82.5	40.2	42.4	44.5
102.5°	274.3	278.2	282.0	285.9	264.8	218.7	172.5	126.4	80.2	73.5	66.8
105°	366.2	369.2	372.2	375.1	364.4	340.1	315.7	291.3	266.9	219.0	171.0
107.5°	463.6	465.9	468.4	470.8	473.9	477.7	481.6	485.4	489.3	454.1	418.9
110°	528.7	530.8	533.0	535.2	537.8	540.8	543.7	546.7	549.7	540.8	531.8



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	590.9	592.9	594.8	596.7	599.2	602.2	605.2	608.1	611.1	611.3	611.5
115°	683.0	684.6	686.2	687.9	689.9	692.4	694.7	697.2	699.6	702.3	705.1
117.5°	772.8	774.8	776.8	778.9	780.5	781.7	782.9	784.2	785.5	787.6	789.8
120°	828.8	831.3	833.7	836.2	837.8	838.5	839.4	840.2	841.0	843.2	845.4
122.5°	884.9	887.0	888.9	891.0	892.5	893.5	894.5	895.5	896.6	898.1	899.6
125°	962.6	964.8	966.9	969.1	970.8	971.8	972.9	974.0	975.1	975.7	976.2
127.5°	1037.7	1039.9	1042.0	1044.2	1045.9	1047.3	1048.6	1049.9	1051.2	1052.0	1052.9
130°	1084.5	1086.7	1088.8	1091.0	1092.7	1093.7	1094.8	1095.9	1097.0	1098.0	1099.1
132.5°	1129.4	1131.6	1133.7	1135.9	1137.4	1138.2	1139.1	1140.0	1140.8	1141.9	1143.0
135°	1197.3	1199.0	1200.6	1202.2	1203.5	1204.6	1205.7	1206.8	1207.9	1208.7	1209.5
137.5°	1256.3	1258.3	1260.4	1262.4	1263.8	1264.4	1264.9	1265.6	1266.2	1267.5	1268.8
140°	1294.9	1296.5	1298.1	1299.8	1300.9	1301.7	1302.5	1303.3	1304.2	1305.3	1306.4
142.5°	1330.9	1332.5	1334.2	1335.8	1337.0	1337.8	1338.6	1339.5	1340.3	1341.1	1342.0
145°	1381.6	1383.6	1385.4	1387.3	1388.5	1389.1	1389.6	1390.2	1390.7	1391.2	1391.8
147.5°	1428.6	1429.8	1431.0	1432.2	1433.1	1433.7	1434.3	1434.8	1435.3	1435.9	1436.4
150°	1457.3	1458.2	1459.0	1459.8	1460.4	1461.0	1461.6	1462.1	1462.6	1463.1	1463.7
152.5°	1483.3	1483.6	1484.0	1484.4	1484.7	1485.1	1485.4	1485.7	1486.0	1487.0	1488.0
155°	1519.4	1518.8	1518.3	1517.8	1517.6	1517.9	1518.2	1518.4	1518.7	1520.0	1521.4
157.5°	1548.7	1548.6	1548.5	1548.5	1548.3	1548.0	1547.8	1547.5	1547.2	1548.8	1550.5
160°	1565.9	1565.7	1565.5	1565.1	1564.9	1564.6	1564.3	1564.1	1563.8	1565.5	1567.1
162.5°	1582.1	1581.4	1580.7	1580.0	1579.5	1579.2	1579.0	1578.7	1578.4	1580.3	1582.1
165°	1602.0	1601.2	1600.4	1599.5	1599.0	1598.7	1598.5	1598.2	1597.9	1600.1	1602.2
167.5°	1617.3	1616.2	1615.2	1614.0	1613.6	1613.6	1613.6	1613.6	1613.6	1615.7	1617.9
170°	1626.1	1625.0	1623.9	1622.9	1622.3	1622.3	1622.3	1622.3	1622.3	1624.5	1626.6
172.5°	1631.7	1630.4	1629.1	1627.8	1627.3	1627.5	1627.7	1627.9	1628.2	1630.4	1632.5
175°	1639.2	1637.9	1636.6	1635.2	1634.6	1634.9	1635.2	1635.4	1635.7	1637.6	1639.5
177.5°	1641.4	1640.4	1639.3	1638.2	1637.8	1638.0	1638.2	1638.4	1638.7	1640.4	1642.1
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1	1145.1
2.5°	1205.0	1205.5	1210.4	1213.9	1212.1	1214.4	1215.2
5°	1316.5	1336.5	1347.0	1354.9	1355.4	1355.9	1360.4
7.5°	1474.6	1496.1	1511.7	1535.5	1542.5	1550.7	1548.3
10°	1590.1	1621.7	1648.9	1663.3	1678.9	1701.6	1683.3
12.5°	1697.9	1754.0	1795.4	1817.8	1832.4	1837.0	1828.0
15°	1875.8	1949.1	1988.4	1987.3	2037.3	2058.9	2025.0
17.5°	2038.9	2106.5	2160.6	2188.3	2230.0	2239.2	2235.0
20°	2138.8	2212.6	2254.7	2302.4	2324.1	2343.5	2346.8
22.5°	2224.9	2291.2	2336.4	2376.1	2394.2	2403.4	2409.0
25°	2313.5	2365.7	2392.9	2406.8	2411.7	2410.6	2403.4
27.5°	2307.5	2311.5	2281.5	2252.1	2225.8	2196.2	2185.9
30°	2247.5	2200.9	2117.7	2070.5	2001.2	1946.3	1968.5
32.5°	2089.9	1997.2	1903.7	1800.7	1715.3	1691.0	1666.6
35°	1783.7	1620.6	1525.2	1414.2	1369.8	1325.4	1294.9
37.5°	1443.1	1316.9	1203.7	1131.1	1086.6	1058.6	1043.5
40°	1247.7	1134.0	1040.8	982.0	948.2	916.6	912.1
42.5°	1091.9	986.2	916.1	869.3	836.7	823.3	813.6
45°	894.4	820.5	773.4	740.1	718.4	710.1	699.0
47.5°	757.0	704.8	669.4	646.8	630.5	624.3	623.4
50°	680.2	636.9	610.8	593.0	580.3	578.1	569.2
52.5°	622.5	585.0	564.7	549.2	540.0	533.7	531.1
55°	540.4	515.4	497.1	488.2	481.0	474.9	474.9
57.5°	472.8	451.9	439.9	432.3	430.1	425.7	423.0
60°	431.0	413.4	403.9	397.2	392.8	393.4	388.3
62.5°	390.3	378.7	369.7	363.1	357.8	357.8	358.2
65°	332.3	323.4	316.8	314.5	311.3	307.4	308.5
67.5°	281.6	273.3	268.1	264.3	263.2	261.1	264.3
70°	245.2	239.1	235.2	231.9	230.8	231.4	234.2
72.5°	211.9	207.6	205.0	203.5	201.1	201.1	203.1
75°	166.4	163.1	160.9	159.2	158.7	158.7	158.7
77.5°	122.3	121.5	120.5	118.1	118.1	118.9	119.0
80°	96.5	94.9	94.3	93.2	91.6	90.4	93.2
82.5°	72.2	70.4	69.9	69.7	67.1	66.9	69.2
85°	38.8	37.2	37.7	37.2	37.2	36.6	36.6
87.5°	20.2	20.1	19.7	20.3	20.0	19.6	20.6
90°	32.5	33.6	34.4	35.0	35.5	36.0	36.5
92.5°	36.4	38.2	39.1	39.5	39.8	40.1	40.4
95°	43.5	45.3	46.3	46.3	46.3	46.3	46.3
97.5°	45.7	47.9	49.2	49.4	49.7	50.0	50.2
100°	46.7	48.9	50.1	50.4	50.6	51.0	51.2
102.5°	60.1	53.3	50.2	50.7	51.2	51.7	52.2
105°	123.1	75.2	51.4	52.0	52.6	53.1	53.6
107.5°	383.8	348.6	313.0	276.9	240.7	204.6	168.4
110°	522.9	514.0	490.1	451.3	412.6	373.9	335.2



TEST NUMBER: P332204-930

CATALOG NUMBER: S123DIW-S1000D1535U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	611.6	611.8	607.8	599.6	591.4	583.3	575.0
115°	707.8	710.5	712.3	713.5	714.5	715.6	716.7
117.5°	791.9	794.1	795.3	795.5	795.7	796.0	796.1
120°	847.5	849.7	850.8	850.8	850.8	850.8	850.8
122.5°	901.2	902.7	903.5	903.8	903.9	904.2	904.4
125°	976.7	977.2	977.8	978.4	978.8	979.4	980.0
127.5°	1053.8	1054.6	1054.8	1054.3	1053.7	1053.1	1052.6
130°	1100.2	1101.3	1101.6	1101.1	1100.5	1099.9	1099.4
132.5°	1144.1	1145.2	1145.3	1144.6	1143.9	1143.0	1142.3
135°	1210.3	1211.1	1211.1	1210.3	1209.5	1208.7	1207.9
137.5°	1270.1	1271.4	1271.7	1271.2	1270.6	1270.1	1269.6
140°	1307.4	1308.5	1308.8	1308.2	1307.7	1307.2	1306.6
142.5°	1342.9	1343.7	1343.8	1343.0	1342.2	1341.5	1340.8
145°	1392.4	1392.9	1393.2	1393.2	1393.2	1393.2	1393.2
147.5°	1437.0	1437.5	1437.1	1435.9	1434.7	1433.4	1432.2
150°	1464.3	1464.8	1464.7	1463.9	1463.1	1462.2	1461.4
152.5°	1489.0	1490.0	1489.8	1488.6	1487.3	1486.0	1484.8
155°	1522.7	1524.1	1524.0	1522.3	1520.7	1519.1	1517.5
157.5°	1552.1	1553.7	1553.5	1551.4	1549.2	1547.1	1545.0
160°	1568.6	1570.3	1570.2	1568.2	1566.4	1564.5	1562.6
162.5°	1584.0	1585.8	1585.8	1584.2	1582.5	1580.9	1579.2
165°	1604.4	1606.6	1606.7	1604.8	1603.0	1601.0	1599.1
167.5°	1620.0	1622.2	1622.2	1620.0	1617.9	1615.7	1613.6
170°	1628.8	1631.0	1631.0	1628.8	1626.6	1624.5	1622.3
172.5°	1634.7	1636.8	1636.7	1634.3	1632.0	1629.5	1627.2
175°	1641.4	1643.3	1643.2	1641.0	1638.8	1636.6	1634.5
177.5°	1643.8	1645.6	1645.4	1643.2	1641.0	1638.8	1636.7
180°	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5	1640.5

(END OF REPORT)