

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: P332349-840

Luminaire Tested: **S123RDIP-S1000D1025U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332349-840
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: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1025 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7556.5 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

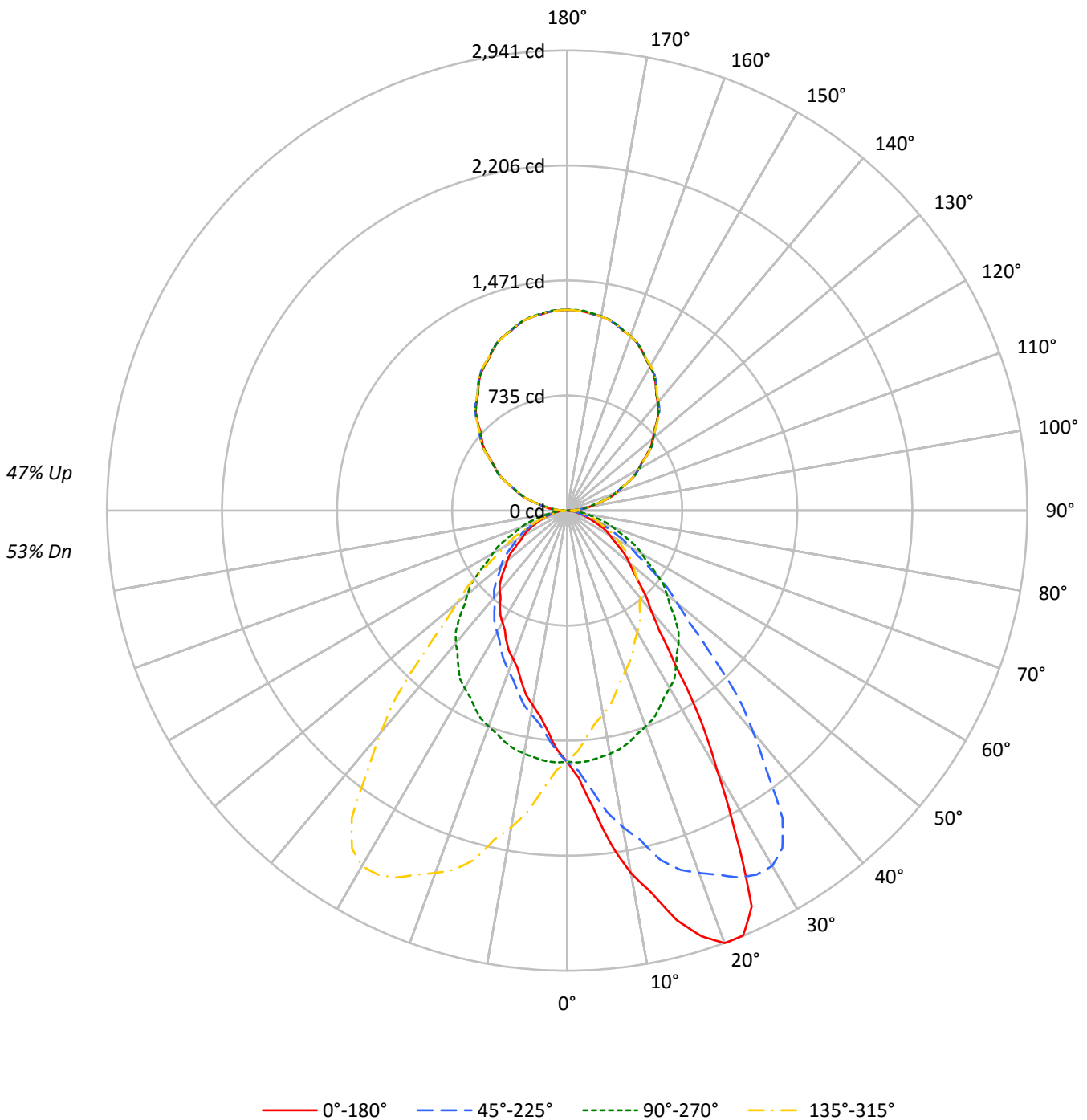
Input Watts (W): 60.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	92	88	85	82	75	73	71	64	62	61	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	57	54	52	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	51	47	44	43	40	38	34
4	76	66	58	53	71	62	55	50	53	48	44	46	42	39	38	36	33	30
5	70	59	51	45	65	55	48	43	48	43	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	29	26	23
7	60	48	40	35	56	45	38	33	40	34	30	34	30	27	29	26	23	21
8	56	44	36	31	52	41	34	30	36	31	27	31	27	24	27	24	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	22	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17280	17280	17280	17280
5°	20599	17354	15282	17354
10°	25719	17254	13806	17254
15°	30190	17079	12590	17079
20°	33693	16814	11557	16814
25°	33155	16537	10922	16537
30°	23832	16281	10268	16281
35°	15912	15948	9843	15948
40°	11724	15548	9405	15548
45°	9834	14845	8977	14845
50°	8678	13924	8378	13924
55°	7610	12872	7557	12872
60°	6777	11866	6923	11866
65°	5952	10781	6441	10781
70°	4674	9819	5882	9819
75°	4117	8576	5373	8576
80°	3583	7283	5281	7283
85°	2878	5866	5595	5866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	2.1
10°-20°	493.2	6.5
20°-30°	774.9	10.3
30°-40°	808.4	10.7
40°-50°	691.8	9.2
50°-60°	527.3	7.0
60°-70°	338.0	4.5
70°-80°	162.6	2.2
80°-90°	46.8	0.6
90°-100°	83.6	1.1
100°-110°	250.2	3.3
110°-120°	425.6	5.6
120°-130°	559.8	7.4
130°-140°	629.2	8.3
140°-150°	618.5	8.2
150°-160°	520.7	6.9
160°-170°	346.6	4.6
170°-180°	121.4	1.6
0°-30°	1426.0	18.9
0°-40°	2234.4	29.6
0°-60°	3453.6	45.7
0°-90°	4001.0	52.9
90°-120°	759.4	10.0
90°-150°	2566.9	34.0
90°-180°	3555.0	47.0
0°-180°	7556.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1605	1605	1605	1605	1605	
5°	1906	1606	1414	1606	1906	197
15°	2709	1533	1130	1533	2709	768
25°	2792	1392	920	1392	2792	1200
35°	1211	1214	749	1214	1211	794
45°	646	975	590	975	646	508
55°	406	686	403	686	406	367
65°	234	423	253	423	234	230
75°	99	206	129	206	99	106
85°	23	48	45	48	23	28
90°	30	1	30	1	30	15
95°	79	60	79	60	79	81
105°	240	227	240	227	240	255
115°	429	428	429	428	429	425
125°	620	627	620	627	620	554
135°	812	814	812	814	812	625
145°	987	987	987	987	987	616
155°	1128	1130	1128	1130	1128	519
165°	1227	1231	1227	1231	1227	346
175°	1275	1280	1275	1280	1275	121
180°	1283	1283	1283	1283	1283	



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1709.9	1712.0	1705.0	1703.8	1695.6	1693.3	1693.3	1681.8	1674.7	1665.4	1659.8
5°	1906.4	1917.4	1911.9	1899.6	1879.0	1874.1	1861.1	1840.5	1817.1	1788.2	1774.4
7.5°	2151.9	2166.9	2161.1	2142.0	2120.4	2102.9	2066.2	2031.9	1984.0	1941.9	1905.9
10°	2353.1	2337.3	2324.9	2306.4	2286.4	2254.1	2215.6	2162.7	2101.6	2053.5	1999.9
12.5°	2503.8	2501.1	2485.5	2466.4	2438.2	2407.5	2360.3	2295.8	2224.7	2155.3	2093.9
15°	2709.2	2713.2	2702.9	2683.0	2643.1	2588.9	2517.4	2490.6	2388.8	2313.3	2237.7
17.5°	2851.3	2850.4	2849.0	2821.5	2780.8	2742.1	2675.8	2605.4	2513.3	2406.7	2304.9
20°	2941.4	2934.6	2935.9	2905.0	2874.8	2830.0	2765.5	2663.1	2587.5	2464.5	2359.3
22.5°	2939.2	2937.8	2943.0	2932.4	2910.5	2876.3	2825.4	2739.0	2642.4	2518.3	2400.0
25°	2791.6	2786.1	2818.4	2827.3	2862.4	2868.5	2853.5	2806.0	2714.6	2586.8	2440.4
27.5°	2336.3	2333.3	2393.3	2468.3	2563.4	2637.4	2708.9	2743.4	2714.6	2623.1	2476.4
30°	1917.4	1982.1	2012.3	2120.8	2241.8	2386.1	2512.5	2632.8	2662.4	2622.5	2502.2
32.5°	1592.0	1648.3	1673.5	1766.8	1879.5	2048.5	2238.3	2408.5	2528.8	2559.3	2486.9
35°	1210.9	1211.6	1269.3	1310.6	1415.0	1588.9	1773.1	2001.2	2228.1	2399.8	2417.7
37.5°	966.2	969.7	1004.6	1045.7	1124.1	1216.0	1378.2	1567.9	1829.9	2093.7	2248.3
40°	834.4	840.5	866.7	907.2	963.5	1032.9	1159.4	1338.1	1556.6	1850.1	2089.9
42.5°	749.6	759.7	773.2	804.4	839.3	904.2	1006.5	1144.6	1343.3	1620.8	1897.5
45°	646.0	651.5	661.9	676.2	707.8	753.3	821.9	914.7	1079.6	1303.0	1579.9
47.5°	569.9	566.9	577.8	589.6	610.6	641.5	687.5	763.3	880.9	1060.2	1295.1
50°	518.2	517.5	525.0	534.0	553.9	576.6	614.4	671.5	764.9	913.3	1128.4
52.5°	469.8	472.4	477.8	488.9	503.3	521.6	555.5	596.6	676.9	805.1	984.4
55°	405.5	407.6	415.1	421.3	431.6	450.1	471.4	505.8	560.8	650.2	797.9
57.5°	351.0	350.1	357.4	358.9	370.5	385.7	402.1	428.9	468.7	535.1	634.6
60°	314.8	312.7	318.9	323.7	329.9	342.2	356.0	382.1	413.7	462.5	547.8
62.5°	281.8	280.8	285.4	290.1	295.3	306.5	318.1	338.1	363.1	404.2	471.9
65°	233.7	235.7	237.8	239.8	242.6	249.4	260.4	274.2	291.3	320.2	369.0
67.5°	183.6	185.7	186.4	190.7	196.5	200.9	207.5	219.7	231.8	256.1	283.9
70°	148.5	147.7	148.5	150.5	158.0	165.6	174.6	183.5	191.1	208.2	231.6
72.5°	127.5	126.3	128.2	128.6	132.2	134.3	140.0	148.3	158.0	169.8	186.5
75°	99.0	99.0	99.0	99.0	101.7	103.1	105.1	107.2	110.7	116.1	128.6
77.5°	73.1	73.2	74.2	74.9	75.4	76.2	77.6	79.6	80.8	83.7	89.1
80°	57.8	58.4	57.8	58.4	58.4	59.8	60.5	62.5	63.2	66.7	68.8
82.5°	43.4	43.0	43.4	44.1	44.1	45.5	45.6	47.2	47.3	49.1	51.1
85°	23.3	22.0	23.3	22.7	24.0	22.7	23.3	24.7	24.7	25.4	28.2
87.5°	11.5	12.5	11.4	11.8	11.7	12.1	12.0	11.8	12.7	12.0	11.9
90°	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0	25.0	24.2	21.3
92.5°	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2	39.4	38.7	37.1
95°	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3	75.5	74.6	72.8
97.5°	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8	117.8	116.7	115.4
100°	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6	148.9	148.1	147.0
102.5°	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0	184.3	183.7	182.2
105°	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9	237.9	237.9	235.9
107.5°	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2	294.5	293.8	293.0
110°	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5	332.5	331.6	331.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7	370.6	369.5	369.5
115°	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9	429.7	429.4	429.9
117.5°	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6	488.7	488.7	489.3
120°	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8	528.0	528.3	529.4
122.5°	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3	567.9	568.6	569.2
125°	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2	627.1	628.0	628.4
127.5°	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4	685.6	686.9	687.4
130°	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0	723.9	724.8	725.5
132.5°	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5	761.6	762.7	763.2
135°	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8	817.7	818.5	818.8
137.5°	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7	872.6	873.5	873.0
140°	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8	908.1	908.3	908.1
142.5°	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7	941.9	942.1	941.7
145°	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5	991.7	991.9	991.3
147.5°	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5	1067.5	1067.5	1067.1
152.5°	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1	1093.7	1093.4	1093.1
155°	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9	1132.0	1131.0	1130.8
157.5°	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2	1165.3	1164.3	1164.2
160°	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7	1185.6	1184.5	1184.5
162.5°	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1	1205.0	1203.9	1203.7
165°	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5	1229.1	1227.8	1227.8
167.5°	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6	1247.4
170°	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1	1258.1
172.5°	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7	1268.3	1266.9	1266.9
175°	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9	1277.6	1276.2	1276.2
177.5°	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0	1281.9	1280.8	1280.8
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1657.6	1656.0	1648.3	1639.5	1627.9	1620.2	1614.2	1610.9	1601.0	1588.9	1580.6
5°	1760.0	1739.4	1717.5	1690.6	1665.9	1640.4	1624.7	1606.1	1583.4	1558.0	1540.1
7.5°	1869.8	1829.3	1785.7	1740.8	1696.4	1656.6	1621.3	1591.2	1555.1	1518.6	1493.1
10°	1953.9	1894.7	1833.6	1771.0	1713.9	1660.4	1619.1	1578.6	1535.3	1493.4	1461.8
12.5°	2030.2	1952.5	1882.0	1805.1	1732.1	1668.1	1608.7	1561.0	1508.9	1464.2	1428.3
15°	2127.0	2047.3	1962.1	1845.2	1748.4	1667.3	1595.1	1532.6	1469.4	1414.3	1379.3
17.5°	2217.5	2097.5	1983.0	1885.5	1759.6	1658.3	1570.2	1495.4	1426.0	1367.8	1324.6
20°	2254.8	2138.7	2014.3	1890.0	1766.3	1652.8	1550.4	1467.9	1395.8	1329.8	1290.0
22.5°	2277.3	2145.9	2014.9	1881.2	1749.7	1631.9	1530.7	1440.0	1361.7	1299.0	1249.8
25°	2303.6	2147.0	2002.7	1870.7	1736.7	1608.8	1488.5	1392.4	1307.9	1241.1	1188.9
27.5°	2321.0	2136.7	1966.1	1819.4	1683.4	1556.2	1445.9	1343.9	1258.2	1187.7	1131.7
30°	2324.3	2128.4	1938.0	1779.3	1641.1	1524.3	1407.4	1309.9	1219.2	1144.3	1092.1
32.5°	2328.6	2108.1	1900.1	1731.4	1590.0	1474.3	1368.5	1275.3	1182.3	1108.5	1055.2
35°	2310.6	2096.8	1842.5	1648.7	1507.1	1395.1	1299.6	1213.7	1122.3	1050.8	996.5
37.5°	2232.4	2052.1	1782.8	1555.5	1407.4	1303.7	1225.9	1151.0	1067.1	990.1	938.9
40°	2153.8	2008.1	1736.7	1498.8	1344.2	1237.7	1167.6	1106.5	1025.4	953.2	898.3
42.5°	2036.7	1948.2	1692.7	1439.5	1272.7	1170.1	1111.0	1053.7	982.5	909.2	857.6
45°	1821.9	1833.6	1602.7	1344.9	1173.8	1070.8	1015.0	975.2	912.0	851.5	798.6
47.5°	1552.5	1661.7	1496.9	1244.2	1069.4	972.7	924.0	889.3	846.7	787.3	739.0
50°	1376.5	1532.6	1412.3	1176.6	1004.1	907.9	859.7	831.5	794.5	747.7	701.7
52.5°	1214.4	1381.9	1310.0	1101.3	933.1	845.2	798.2	775.0	745.5	701.6	659.8
55°	990.3	1160.0	1143.6	987.5	826.8	747.7	712.0	685.9	665.9	633.0	600.0
57.5°	801.0	962.0	970.5	861.1	733.1	654.9	624.2	604.5	591.5	566.5	536.0
60°	681.8	829.5	858.4	775.9	665.9	597.2	566.9	551.2	540.9	520.9	497.6
62.5°	582.8	708.5	741.2	681.9	601.6	537.2	513.6	498.4	491.4	474.2	453.6
65°	446.1	550.5	582.1	549.1	507.2	455.7	436.4	423.3	417.2	407.6	392.4
67.5°	335.4	411.5	446.2	422.9	407.8	375.3	363.0	356.0	350.5	343.9	331.2
70°	269.4	325.8	361.5	355.3	343.0	325.8	316.8	312.0	306.5	301.0	290.0
72.5°	216.6	255.4	288.9	292.1	282.0	278.5	270.6	268.6	265.3	258.7	252.7
75°	143.6	170.5	193.8	202.8	206.8	210.3	206.8	206.2	205.5	200.0	196.5
77.5°	94.1	108.6	123.3	138.6	145.0	149.7	150.8	153.3	151.5	148.6	146.9
80°	72.2	75.6	85.9	99.0	109.3	113.4	116.1	117.5	116.8	116.1	113.4
82.5°	52.4	55.2	60.1	69.3	78.0	84.8	86.4	86.1	87.7	88.1	85.9
85°	28.2	28.9	30.2	31.6	36.5	44.0	46.0	47.5	48.8	48.8	44.6
87.5°	12.4	11.3	11.8	11.3	12.5	12.6	15.5	17.8	18.8	17.1	17.5
90°	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0	3.2	5.5	7.8
92.5°	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4	26.0	27.5	29.0
95°	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5	61.0	62.6	64.2
97.5°	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6	106.8	108.0	109.2
100°	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1	138.5	139.8	141.1
102.5°	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4	174.2	175.0	175.8
105°	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8	227.2	227.7	228.1
107.5°	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9	289.2	289.4	289.7
110°	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6	328.1	328.5	328.9



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9	368.2	368.5	368.7
115°	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4	429.1	429.8	430.4
117.5°	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3	489.8	490.2	490.7
120°	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3	528.6	529.9	531.3
122.5°	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7	567.7	568.7	569.7
125°	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0	627.7	628.3	629.0
127.5°	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7	684.1	685.5	686.9
130°	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7	721.5	723.4	725.1
132.5°	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9	758.6	760.4	762.2
135°	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5	814.9	816.2	817.5
137.5°	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0	867.1	868.2	869.3
140°	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2	903.3	904.4	905.5
142.5°	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2	936.3	937.6	938.7
145°	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8	987.3	987.7	988.3
147.5°	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1	1032.9	1033.7	1034.5
150°	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5	1064.0	1064.4	1064.8
152.5°	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3	1089.9	1090.6	1091.2
155°	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7	1164.5	1164.2	1163.9
160°	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5	1186.0	1185.6	1185.2
162.5°	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9	1205.2	1204.6	1204.0
165°	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8	1230.1	1229.5	1228.8
167.5°	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8	1249.9	1249.0	1248.1
170°	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1	1261.2	1260.3	1259.4
172.5°	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9	1270.1	1269.2	1268.3
175°	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2	1279.3	1278.4	1277.6
177.5°	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0	1283.3	1282.6	1281.9
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1577.9	1570.7	1565.8	1554.8	1547.7	1539.9	1532.3	1537.2	1536.7	1536.1	1536.1
5°	1525.0	1509.1	1494.8	1476.2	1464.5	1450.1	1439.1	1437.7	1440.5	1430.9	1425.3
7.5°	1472.5	1450.9	1430.5	1410.0	1388.3	1370.9	1360.1	1354.9	1348.0	1342.0	1335.8
10°	1435.6	1410.3	1390.3	1364.8	1341.5	1320.9	1307.9	1298.9	1294.0	1289.3	1280.3
12.5°	1397.8	1372.8	1347.5	1318.7	1296.5	1272.5	1262.7	1252.7	1243.5	1238.1	1225.9
15°	1342.2	1309.9	1283.1	1252.8	1228.1	1204.8	1191.0	1171.0	1168.3	1161.4	1149.1
17.5°	1286.6	1251.4	1214.5	1192.1	1164.2	1139.8	1118.9	1112.3	1092.6	1085.2	1074.4
20°	1242.5	1210.2	1182.0	1152.6	1112.0	1089.2	1072.8	1063.9	1048.0	1038.4	1031.6
22.5°	1204.6	1171.7	1139.2	1104.7	1071.3	1045.8	1033.8	1019.9	1011.2	997.7	990.3
25°	1150.4	1114.7	1075.5	1038.4	1014.4	995.1	975.9	963.5	951.2	944.9	931.2
27.5°	1087.5	1050.2	1013.5	985.3	955.8	936.9	919.4	908.4	893.5	883.1	875.6
30°	1052.9	1008.9	977.2	951.8	914.0	896.2	883.1	869.4	858.4	847.4	839.8
32.5°	1012.7	972.6	942.6	911.2	882.1	862.6	845.8	833.6	824.3	813.9	806.3
35°	949.8	916.1	885.1	853.5	832.2	812.3	792.4	782.0	773.2	763.6	756.7
37.5°	892.8	861.4	832.0	802.0	775.6	759.4	743.4	735.5	723.4	716.9	709.9
40°	857.7	826.8	795.2	766.3	738.8	726.4	712.0	700.3	689.3	684.5	676.9
42.5°	819.2	788.3	761.6	730.5	708.0	691.3	677.9	665.1	656.9	649.8	645.6
45°	762.1	734.7	708.5	677.6	656.3	641.9	626.7	615.1	607.5	602.7	595.1
47.5°	706.8	679.2	652.8	625.8	605.2	588.7	573.6	565.4	555.4	549.6	544.4
50°	666.6	641.9	613.7	589.0	568.4	551.9	539.5	529.2	520.3	512.7	509.3
52.5°	629.8	603.4	579.1	556.0	534.2	515.5	504.3	493.4	486.8	478.1	474.0
55°	569.1	543.6	523.0	500.3	479.0	463.2	449.5	439.8	432.9	423.3	417.9
57.5°	512.0	489.2	464.5	444.9	422.9	409.6	398.2	385.2	376.8	369.2	363.9
60°	473.5	447.4	426.1	407.6	388.3	371.1	360.8	350.5	341.5	334.0	329.2
62.5°	433.3	410.6	390.3	370.1	352.5	337.6	325.6	317.0	309.1	304.3	299.5
65°	371.8	354.0	333.4	316.8	300.3	289.3	279.7	272.2	266.6	263.2	259.1
67.5°	315.2	297.8	279.8	263.7	252.7	244.3	237.9	231.5	228.7	224.3	221.6
70°	278.3	260.4	244.7	232.3	221.3	215.1	211.0	206.2	203.4	197.9	195.2
72.5°	238.2	225.3	213.9	203.7	194.9	189.2	184.0	178.1	173.7	167.6	164.9
75°	187.6	175.9	167.0	160.2	154.6	147.0	139.5	133.3	131.3	129.2	128.6
77.5°	139.0	131.6	125.1	119.3	112.4	106.9	105.3	103.9	103.5	102.4	102.4
80°	109.3	102.4	97.6	90.7	86.5	86.5	86.5	85.2	85.9	85.9	85.9
82.5°	81.2	74.9	72.3	69.8	69.0	69.6	69.6	69.8	69.4	70.5	70.0
85°	41.9	42.6	44.0	43.3	44.0	44.0	45.3	44.6	45.3	44.0	45.3
87.5°	17.4	19.6	20.7	21.8	22.9	23.0	23.7	23.9	24.6	24.8	24.9
90°	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0	26.9	27.8	28.5
92.5°	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2	40.9	41.6	41.8
95°	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3	77.3	78.2	78.7
97.5°	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8	119.9	120.9	121.3
100°	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6	150.2	150.9	151.5
102.5°	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0	185.7	186.3	186.6
105°	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9	237.9	237.9	238.1
107.5°	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2	295.9	296.6	296.8
110°	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5	334.4	335.3	335.5



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7	372.7	373.9	374.4
115°	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9	430.1	430.3	430.3
117.5°	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6	488.6	488.6	488.2
120°	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8	527.6	527.4	526.9
122.5°	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3	566.8	566.2	565.6
125°	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2	625.3	624.4	623.5
127.5°	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4	683.2	681.9	680.8
130°	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0	722.1	721.2	719.9
132.5°	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5	759.5	758.4	757.3
135°	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8	815.9	815.0	814.3
137.5°	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7	870.8	869.8	868.9
140°	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8	907.6	907.4	906.5
142.5°	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7	941.5	941.2	940.5
145°	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5	991.3	991.0	990.5
147.5°	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5	1038.5	1038.5	1037.8
150°	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5	1067.5	1067.5	1066.8
152.5°	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1	1094.4	1094.8	1094.4
155°	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9	1133.8	1134.6	1134.3
157.5°	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2	1167.1	1168.1	1167.9
160°	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7	1187.8	1188.9	1189.0
162.5°	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1	1207.2	1208.3	1208.1
165°	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5	1231.8	1233.1	1233.0
167.5°	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1
170°	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4
172.5°	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7	1271.1	1272.4	1272.4
175°	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9	1280.2	1281.6	1281.4
177.5°	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0	1284.0	1285.2	1285.1
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1529.5	1528.9	1529.5	1527.3	1529.5	1528.9	1529.5	1536.1	1536.1	1536.7	1537.2
5°	1423.3	1422.6	1420.6	1414.3	1420.6	1422.6	1423.3	1425.3	1430.9	1440.5	1437.7
7.5°	1330.5	1329.6	1323.5	1323.6	1323.5	1329.6	1330.5	1335.8	1342.0	1348.0	1354.9
10°	1275.6	1276.2	1268.0	1263.1	1268.0	1276.2	1275.6	1280.3	1289.3	1294.0	1298.9
12.5°	1222.2	1219.0	1212.4	1207.1	1212.4	1219.0	1222.2	1225.9	1238.1	1243.5	1252.7
15°	1151.9	1145.0	1128.4	1129.8	1128.4	1145.0	1151.9	1149.1	1161.4	1168.3	1171.0
17.5°	1068.9	1063.9	1063.6	1054.0	1063.6	1063.9	1068.9	1074.4	1085.2	1092.6	1112.3
20°	1020.6	1017.1	1018.4	1008.9	1018.4	1017.1	1020.6	1031.6	1038.4	1048.0	1063.9
22.5°	982.6	979.2	973.4	970.4	973.4	979.2	982.6	990.3	997.7	1011.2	1019.9
25°	927.1	921.6	916.1	919.6	916.1	921.6	927.1	931.2	944.9	951.2	963.5
27.5°	871.6	867.5	861.9	861.2	861.9	867.5	871.6	875.6	883.1	893.5	908.4
30°	836.4	832.2	829.5	826.1	829.5	832.2	836.4	839.8	847.4	858.4	869.4
32.5°	800.6	799.8	794.9	794.2	794.9	799.8	800.6	806.3	813.9	824.3	833.6
35°	753.9	749.8	748.4	749.1	748.4	749.8	753.9	756.7	763.6	773.2	782.0
37.5°	709.5	704.0	701.6	699.0	701.6	704.0	709.5	709.9	716.9	723.4	735.5
40°	677.6	672.2	670.8	669.3	670.8	672.2	677.6	676.9	684.5	689.3	700.3
42.5°	641.9	639.6	638.8	636.4	638.8	639.6	641.9	645.6	649.8	656.9	665.1
45°	593.1	592.4	588.2	589.7	588.2	592.4	593.1	595.1	602.7	607.5	615.1
47.5°	541.7	538.7	535.7	537.7	535.7	538.7	541.7	544.4	549.6	555.4	565.4
50°	506.5	505.1	499.0	500.3	499.0	505.1	506.5	509.3	512.7	520.3	529.2
52.5°	471.3	466.1	463.7	462.9	463.7	466.1	471.3	474.0	478.1	486.8	493.4
55°	413.0	406.9	404.1	402.7	404.1	406.9	413.0	417.9	423.3	432.9	439.8
57.5°	355.9	354.2	352.0	353.6	352.0	354.2	355.9	363.9	369.2	376.8	385.2
60°	322.3	322.3	322.3	321.6	322.3	322.3	322.3	329.2	334.0	341.5	350.5
62.5°	296.5	294.8	294.3	295.3	294.3	294.8	296.5	299.5	304.3	309.1	317.0
65°	257.0	256.3	253.6	252.9	253.6	256.3	257.0	259.1	263.2	266.6	272.2
67.5°	219.7	217.3	216.5	215.5	216.5	217.3	219.7	221.6	224.3	228.7	231.5
70°	191.8	190.4	186.2	186.9	186.2	190.4	191.8	195.2	197.9	203.4	206.2
72.5°	161.5	160.2	159.3	158.3	159.3	160.2	161.5	164.9	167.6	173.7	178.1
75°	127.8	127.1	126.4	129.2	126.4	127.1	127.8	128.6	129.2	131.3	133.3
77.5°	102.4	102.4	102.8	101.7	102.8	102.4	102.4	102.4	102.4	103.5	103.9
80°	85.9	85.9	85.2	85.2	85.2	85.9	85.9	85.9	85.9	85.9	85.2
82.5°	68.9	69.4	69.8	68.8	69.8	69.4	68.9	70.0	70.5	69.4	69.8
85°	45.3	44.6	46.0	45.3	46.0	44.6	45.3	45.3	44.0	45.3	44.6
87.5°	26.2	25.1	25.2	25.9	25.2	25.1	26.2	24.9	24.8	24.6	23.9
90°	28.9	29.4	29.8	30.2	29.8	29.4	28.9	28.5	27.8	26.9	26.0
92.5°	41.5	41.3	41.0	40.7	41.0	41.3	41.5	41.8	41.6	40.9	40.2
95°	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.7	78.2	77.3	76.3
97.5°	121.3	121.2	121.1	121.0	121.1	121.2	121.3	121.3	120.9	119.9	118.8
100°	151.9	152.3	152.8	153.2	152.8	152.3	151.9	151.5	150.9	150.2	149.6
102.5°	186.5	186.4	186.4	186.3	186.4	186.4	186.5	186.6	186.3	185.7	185.0
105°	238.5	239.0	239.4	239.9	239.4	239.0	238.5	238.1	237.9	237.9	237.9
107.5°	296.6	296.3	296.0	295.8	296.0	296.3	296.6	296.8	296.6	295.9	295.2
110°	335.0	334.6	334.2	333.7	334.2	334.6	335.0	335.5	335.3	334.4	333.5



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	374.3	374.2	374.1	374.0	374.1	374.2	374.3	374.4	373.9	372.7	371.7
115°	430.1	429.9	429.7	429.4	429.7	429.9	430.1	430.3	430.3	430.1	429.9
117.5°	487.6	487.0	486.4	485.6	486.4	487.0	487.6	488.2	488.6	488.6	488.6
120°	526.5	526.1	525.6	525.2	525.6	526.1	526.5	526.9	527.4	527.6	527.8
122.5°	565.0	564.3	563.7	563.1	563.7	564.3	565.0	565.6	566.2	566.8	567.3
125°	622.7	621.8	620.9	620.0	620.9	621.8	622.7	623.5	624.4	625.3	626.2
127.5°	679.7	678.6	677.6	676.6	677.6	678.6	679.7	680.8	681.9	683.2	684.4
130°	718.4	716.8	715.3	713.7	715.3	716.8	718.4	719.9	721.2	722.1	723.0
132.5°	756.1	754.9	753.7	752.5	753.7	754.9	756.1	757.3	758.4	759.5	760.5
135°	813.9	813.3	812.9	812.5	812.9	813.3	813.9	814.3	815.0	815.9	816.8
137.5°	868.1	867.2	866.4	865.6	866.4	867.2	868.1	868.9	869.8	870.8	871.7
140°	904.9	903.3	901.8	900.2	901.8	903.3	904.9	906.5	907.4	907.6	907.8
142.5°	939.3	938.1	936.9	935.6	936.9	938.1	939.3	940.5	941.2	941.5	941.7
145°	989.6	988.7	987.7	986.8	987.7	988.7	989.6	990.5	991.0	991.3	991.5
147.5°	1036.5	1035.1	1033.8	1032.5	1033.8	1035.1	1036.5	1037.8	1038.5	1038.5	1038.5
150°	1065.5	1064.2	1062.8	1061.5	1062.8	1064.2	1065.5	1066.8	1067.5	1067.5	1067.5
152.5°	1093.2	1092.1	1090.9	1089.7	1090.9	1092.1	1093.2	1094.4	1094.8	1094.4	1094.1
155°	1132.8	1131.1	1129.5	1128.0	1129.5	1131.1	1132.8	1134.3	1134.6	1133.8	1132.9
157.5°	1166.7	1165.4	1164.2	1162.9	1164.2	1165.4	1166.7	1167.9	1168.1	1167.1	1166.2
160°	1188.2	1187.3	1186.4	1185.5	1186.4	1187.3	1188.2	1189.0	1188.9	1187.8	1186.7
162.5°	1206.7	1205.3	1203.9	1202.4	1203.9	1205.3	1206.7	1208.1	1208.3	1207.2	1206.1
165°	1231.5	1229.9	1228.4	1226.8	1228.4	1229.9	1231.5	1233.0	1233.1	1231.8	1230.5
167.5°	1251.7	1250.3	1249.0	1247.6	1249.0	1250.3	1251.7	1253.1	1253.1	1251.7	1250.3
170°	1262.7	1261.2	1259.6	1258.1	1259.6	1261.2	1262.7	1264.4	1264.4	1262.7	1261.2
172.5°	1270.8	1269.3	1267.7	1266.1	1267.7	1269.3	1270.8	1272.4	1272.4	1271.1	1269.7
175°	1279.9	1278.3	1276.8	1275.2	1276.8	1278.3	1279.9	1281.4	1281.6	1280.2	1278.9
177.5°	1283.8	1282.5	1281.3	1280.0	1281.3	1282.5	1283.8	1285.1	1285.2	1284.0	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1532.3	1539.9	1547.7	1554.8	1565.8	1570.7	1577.9	1580.6	1588.9	1601.0	1610.9
5°	1439.1	1450.1	1464.5	1476.2	1494.8	1509.1	1525.0	1540.1	1558.0	1583.4	1606.1
7.5°	1360.1	1370.9	1388.3	1410.0	1430.5	1450.9	1472.5	1493.1	1518.6	1555.1	1591.2
10°	1307.9	1320.9	1341.5	1364.8	1390.3	1410.3	1435.6	1461.8	1493.4	1535.3	1578.6
12.5°	1262.7	1272.5	1296.5	1318.7	1347.5	1372.8	1397.8	1428.3	1464.2	1508.9	1561.0
15°	1191.0	1204.8	1228.1	1252.8	1283.1	1309.9	1342.2	1379.3	1414.3	1469.4	1532.6
17.5°	1118.9	1139.8	1164.2	1192.1	1214.5	1251.4	1286.6	1324.6	1367.8	1426.0	1495.4
20°	1072.8	1089.2	1112.0	1152.6	1182.0	1210.2	1242.5	1290.0	1329.8	1395.8	1467.9
22.5°	1033.8	1045.8	1071.3	1104.7	1139.2	1171.7	1204.6	1249.8	1299.0	1361.7	1440.0
25°	975.9	995.1	1014.4	1038.4	1075.5	1114.7	1150.4	1188.9	1241.1	1307.9	1392.4
27.5°	919.4	936.9	955.8	985.3	1013.5	1050.2	1087.5	1131.7	1187.7	1258.2	1343.9
30°	883.1	896.2	914.0	951.8	977.2	1008.9	1052.9	1092.1	1144.3	1219.2	1309.9
32.5°	845.8	862.6	882.1	911.2	942.6	972.6	1012.7	1055.2	1108.5	1182.3	1275.3
35°	792.4	812.3	832.2	853.5	885.1	916.1	949.8	996.5	1050.8	1122.3	1213.7
37.5°	743.4	759.4	775.6	802.0	832.0	861.4	892.8	938.9	990.1	1067.1	1151.0
40°	712.0	726.4	738.8	766.3	795.2	826.8	857.7	898.3	953.2	1025.4	1106.5
42.5°	677.9	691.3	708.0	730.5	761.6	788.3	819.2	857.6	909.2	982.5	1053.7
45°	626.7	641.9	656.3	677.6	708.5	734.7	762.1	798.6	851.5	912.0	975.2
47.5°	573.6	588.7	605.2	625.8	652.8	679.2	706.8	739.0	787.3	846.7	889.3
50°	539.5	551.9	568.4	589.0	613.7	641.9	666.6	701.7	747.7	794.5	831.5
52.5°	504.3	515.5	534.2	556.0	579.1	603.4	629.8	659.8	701.6	745.5	775.0
55°	449.5	463.2	479.0	500.3	523.0	543.6	569.1	600.0	633.0	665.9	685.9
57.5°	398.2	409.6	422.9	444.9	464.5	489.2	512.0	536.0	566.5	591.5	604.5
60°	360.8	371.1	388.3	407.6	426.1	447.4	473.5	497.6	520.9	540.9	551.2
62.5°	325.6	337.6	352.5	370.1	390.3	410.6	433.3	453.6	474.2	491.4	498.4
65°	279.7	289.3	300.3	316.8	333.4	354.0	371.8	392.4	407.6	417.2	423.3
67.5°	237.9	244.3	252.7	263.7	279.8	297.8	315.2	331.2	343.9	350.5	356.0
70°	211.0	215.1	221.3	232.3	244.7	260.4	278.3	290.0	301.0	306.5	312.0
72.5°	184.0	189.2	194.9	203.7	213.9	225.3	238.2	252.7	258.7	265.3	268.6
75°	139.5	147.0	154.6	160.2	167.0	175.9	187.6	196.5	200.0	205.5	206.2
77.5°	105.3	106.9	112.4	119.3	125.1	131.6	139.0	146.9	148.6	151.5	153.3
80°	86.5	86.5	86.5	90.7	97.6	102.4	109.3	113.4	116.1	116.8	117.5
82.5°	69.6	69.6	69.0	69.8	72.3	74.9	81.2	85.9	88.1	87.7	86.1
85°	45.3	44.0	44.0	43.3	44.0	42.6	41.9	44.6	48.8	48.8	47.5
87.5°	23.7	23.0	22.9	21.8	20.7	19.6	17.4	17.5	17.1	18.8	17.8
90°	25.0	24.2	21.3	18.4	15.5	12.5	10.0	7.8	5.5	3.2	1.0
92.5°	39.4	38.7	37.1	35.3	33.7	32.1	30.5	29.0	27.5	26.0	24.4
95°	75.5	74.6	72.8	71.0	69.2	67.5	65.7	64.2	62.6	61.0	59.5
97.5°	117.8	116.7	115.4	114.1	112.8	111.5	110.3	109.2	108.0	106.8	105.6
100°	148.9	148.1	147.0	145.9	144.8	143.7	142.5	141.1	139.8	138.5	137.1
102.5°	184.3	183.7	182.2	180.7	179.3	177.7	176.6	175.8	175.0	174.2	173.4
105°	237.9	237.9	235.9	233.9	231.9	229.8	228.6	228.1	227.7	227.2	226.8
107.5°	294.5	293.8	293.0	292.2	291.3	290.5	290.0	289.7	289.4	289.2	288.9
110°	332.5	331.6	331.2	330.7	330.3	329.8	329.4	328.9	328.5	328.1	327.6



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	370.6	369.5	369.5	369.4	369.3	369.2	369.0	368.7	368.5	368.2	367.9
115°	429.7	429.4	429.9	430.3	430.8	431.2	431.1	430.4	429.8	429.1	428.4
117.5°	488.7	488.7	489.3	489.9	490.5	491.0	491.1	490.7	490.2	489.8	489.3
120°	528.0	528.3	529.4	530.5	531.6	532.7	532.6	531.3	529.9	528.6	527.3
122.5°	567.9	568.6	569.2	569.7	570.3	570.9	570.7	569.7	568.7	567.7	566.7
125°	627.1	628.0	628.4	628.9	629.3	629.9	629.7	629.0	628.3	627.7	627.0
127.5°	685.6	686.9	687.4	687.9	688.3	688.8	688.4	686.9	685.5	684.1	682.7
130°	723.9	724.8	725.5	726.1	726.8	727.5	726.9	725.1	723.4	721.5	719.7
132.5°	761.6	762.7	763.2	763.7	764.2	764.7	764.1	762.2	760.4	758.6	756.9
135°	817.7	818.5	818.8	819.0	819.2	819.4	818.9	817.5	816.2	814.9	813.5
137.5°	872.6	873.5	873.0	872.4	871.8	871.2	870.4	869.3	868.2	867.1	866.0
140°	908.1	908.3	908.1	907.8	907.6	907.4	906.7	905.5	904.4	903.3	902.2
142.5°	941.9	942.1	941.7	941.3	940.9	940.5	939.8	938.7	937.6	936.3	935.2
145°	991.7	991.9	991.3	990.6	989.9	989.3	988.7	988.3	987.7	987.3	986.8
147.5°	1038.5	1038.5	1037.8	1037.2	1036.6	1036.0	1035.3	1034.5	1033.7	1032.9	1032.1
150°	1067.5	1067.5	1067.1	1066.6	1066.2	1065.7	1065.3	1064.8	1064.4	1064.0	1063.5
152.5°	1093.7	1093.4	1093.1	1092.8	1092.6	1092.3	1091.8	1091.2	1090.6	1089.9	1089.3
155°	1132.0	1131.0	1130.8	1130.5	1130.3	1130.1	1130.0	1130.0	1130.0	1130.0	1130.0
157.5°	1165.3	1164.3	1164.2	1164.0	1163.8	1163.6	1163.7	1163.9	1164.2	1164.5	1164.7
160°	1185.6	1184.5	1184.5	1184.5	1184.5	1184.5	1184.7	1185.2	1185.6	1186.0	1186.5
162.5°	1205.0	1203.9	1203.7	1203.5	1203.3	1203.2	1203.4	1204.0	1204.6	1205.2	1205.9
165°	1229.1	1227.8	1227.8	1227.8	1227.8	1227.8	1228.2	1228.8	1229.5	1230.1	1230.8
167.5°	1249.0	1247.6	1247.4	1247.2	1247.1	1246.9	1247.2	1248.1	1249.0	1249.9	1250.8
170°	1259.6	1258.1	1258.1	1258.1	1258.1	1258.1	1258.5	1259.4	1260.3	1261.2	1262.1
172.5°	1268.3	1266.9	1266.9	1266.9	1266.9	1266.9	1267.4	1268.3	1269.2	1270.1	1270.9
175°	1277.6	1276.2	1276.2	1276.2	1276.2	1276.2	1276.7	1277.6	1278.4	1279.3	1280.2
177.5°	1281.9	1280.8	1280.8	1280.8	1280.8	1280.8	1281.2	1281.9	1282.6	1283.3	1284.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1614.2	1620.2	1627.9	1639.5	1648.3	1656.0	1657.6	1659.8	1665.4	1674.7	1681.8
5°	1624.7	1640.4	1665.9	1690.6	1717.5	1739.4	1760.0	1774.4	1788.2	1817.1	1840.5
7.5°	1621.3	1656.6	1696.4	1740.8	1785.7	1829.3	1869.8	1905.9	1941.9	1984.0	2031.9
10°	1619.1	1660.4	1713.9	1771.0	1833.6	1894.7	1953.9	1999.9	2053.5	2101.6	2162.7
12.5°	1608.7	1668.1	1732.1	1805.1	1882.0	1952.5	2030.2	2093.9	2155.3	2224.7	2295.8
15°	1595.1	1667.3	1748.4	1845.2	1962.1	2047.3	2127.0	2237.7	2313.3	2388.8	2490.6
17.5°	1570.2	1658.3	1759.6	1885.5	1983.0	2097.5	2217.5	2304.9	2406.7	2513.3	2605.4
20°	1550.4	1652.8	1766.3	1890.0	2014.3	2138.7	2254.8	2359.3	2464.5	2587.5	2663.1
22.5°	1530.7	1631.9	1749.7	1881.2	2014.9	2145.9	2277.3	2400.0	2518.3	2642.4	2739.0
25°	1488.5	1608.8	1736.7	1870.7	2002.7	2147.0	2303.6	2440.4	2586.8	2714.6	2806.0
27.5°	1445.9	1556.2	1683.4	1819.4	1966.1	2136.7	2321.0	2476.4	2623.1	2714.6	2743.4
30°	1407.4	1524.3	1641.1	1779.3	1938.0	2128.4	2324.3	2502.2	2622.5	2662.4	2632.8
32.5°	1368.5	1474.3	1590.0	1731.4	1900.1	2108.1	2328.6	2486.9	2559.3	2528.8	2408.5
35°	1299.6	1395.1	1507.1	1648.7	1842.5	2096.8	2310.6	2417.7	2399.8	2228.1	2001.2
37.5°	1225.9	1303.7	1407.4	1555.5	1782.8	2052.1	2232.4	2248.3	2093.7	1829.9	1567.9
40°	1167.6	1237.7	1344.2	1498.8	1736.7	2008.1	2153.8	2089.9	1850.1	1556.6	1338.1
42.5°	1111.0	1170.1	1272.7	1439.5	1692.7	1948.2	2036.7	1897.5	1620.8	1343.3	1144.6
45°	1015.0	1070.8	1173.8	1344.9	1602.7	1833.6	1821.9	1579.9	1303.0	1079.6	914.7
47.5°	924.0	972.7	1069.4	1244.2	1496.9	1661.7	1552.5	1295.1	1060.2	880.9	763.3
50°	859.7	907.9	1004.1	1176.6	1412.3	1532.6	1376.5	1128.4	913.3	764.9	671.5
52.5°	798.2	845.2	933.1	1101.3	1310.0	1381.9	1214.4	984.4	805.1	676.9	596.6
55°	712.0	747.7	826.8	987.5	1143.6	1160.0	990.3	797.9	650.2	560.8	505.8
57.5°	624.2	654.9	733.1	861.1	970.5	962.0	801.0	634.6	535.1	468.7	428.9
60°	566.9	597.2	665.9	775.9	858.4	829.5	681.8	547.8	462.5	413.7	382.1
62.5°	513.6	537.2	601.6	681.9	741.2	708.5	582.8	471.9	404.2	363.1	338.1
65°	436.4	455.7	507.2	549.1	582.1	550.5	446.1	369.0	320.2	291.3	274.2
67.5°	363.0	375.3	407.8	422.9	446.2	411.5	335.4	283.9	256.1	231.8	219.7
70°	316.8	325.8	343.0	355.3	361.5	325.8	269.4	231.6	208.2	191.1	183.5
72.5°	270.6	278.5	282.0	292.1	288.9	255.4	216.6	186.5	169.8	158.0	148.3
75°	206.8	210.3	206.8	202.8	193.8	170.5	143.6	128.6	116.1	110.7	107.2
77.5°	150.8	149.7	145.0	138.6	123.3	108.6	94.1	89.1	83.7	80.8	79.6
80°	116.1	113.4	109.3	99.0	85.9	75.6	72.2	68.8	66.7	63.2	62.5
82.5°	86.4	84.8	78.0	69.3	60.1	55.2	52.4	51.1	49.1	47.3	47.2
85°	46.0	44.0	36.5	31.6	30.2	28.9	28.2	28.2	25.4	24.7	24.7
87.5°	15.5	12.6	12.5	11.3	11.8	11.3	12.4	11.9	12.0	12.7	11.8
90°	3.2	5.5	7.8	10.0	12.5	15.5	18.4	21.3	24.2	25.0	26.0
92.5°	26.0	27.5	29.0	30.5	32.1	33.7	35.3	37.1	38.7	39.4	40.2
95°	61.0	62.6	64.2	65.7	67.5	69.2	71.0	72.8	74.6	75.5	76.3
97.5°	106.8	108.0	109.2	110.3	111.5	112.8	114.1	115.4	116.7	117.8	118.8
100°	138.5	139.8	141.1	142.5	143.7	144.8	145.9	147.0	148.1	148.9	149.6
102.5°	174.2	175.0	175.8	176.6	177.7	179.3	180.7	182.2	183.7	184.3	185.0
105°	227.2	227.7	228.1	228.6	229.8	231.9	233.9	235.9	237.9	237.9	237.9
107.5°	289.2	289.4	289.7	290.0	290.5	291.3	292.2	293.0	293.8	294.5	295.2
110°	328.1	328.5	328.9	329.4	329.8	330.3	330.7	331.2	331.6	332.5	333.5



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	368.2	368.5	368.7	369.0	369.2	369.3	369.4	369.5	369.5	370.6	371.7
115°	429.1	429.8	430.4	431.1	431.2	430.8	430.3	429.9	429.4	429.7	429.9
117.5°	489.8	490.2	490.7	491.1	491.0	490.5	489.9	489.3	488.7	488.7	488.6
120°	528.6	529.9	531.3	532.6	532.7	531.6	530.5	529.4	528.3	528.0	527.8
122.5°	567.7	568.7	569.7	570.7	570.9	570.3	569.7	569.2	568.6	567.9	567.3
125°	627.7	628.3	629.0	629.7	629.9	629.3	628.9	628.4	628.0	627.1	626.2
127.5°	684.1	685.5	686.9	688.4	688.8	688.3	687.9	687.4	686.9	685.6	684.4
130°	721.5	723.4	725.1	726.9	727.5	726.8	726.1	725.5	724.8	723.9	723.0
132.5°	758.6	760.4	762.2	764.1	764.7	764.2	763.7	763.2	762.7	761.6	760.5
135°	814.9	816.2	817.5	818.9	819.4	819.2	819.0	818.8	818.5	817.7	816.8
137.5°	867.1	868.2	869.3	870.4	871.2	871.8	872.4	873.0	873.5	872.6	871.7
140°	903.3	904.4	905.5	906.7	907.4	907.6	907.8	908.1	908.3	908.1	907.8
142.5°	936.3	937.6	938.7	939.8	940.5	940.9	941.3	941.7	942.1	941.9	941.7
145°	987.3	987.7	988.3	988.7	989.3	989.9	990.6	991.3	991.9	991.7	991.5
147.5°	1032.9	1033.7	1034.5	1035.3	1036.0	1036.6	1037.2	1037.8	1038.5	1038.5	1038.5
150°	1064.0	1064.4	1064.8	1065.3	1065.7	1066.2	1066.6	1067.1	1067.5	1067.5	1067.5
152.5°	1089.9	1090.6	1091.2	1091.8	1092.3	1092.6	1092.8	1093.1	1093.4	1093.7	1094.1
155°	1130.0	1130.0	1130.0	1130.0	1130.1	1130.3	1130.5	1130.8	1131.0	1132.0	1132.9
157.5°	1164.5	1164.2	1163.9	1163.7	1163.6	1163.8	1164.0	1164.2	1164.3	1165.3	1166.2
160°	1186.0	1185.6	1185.2	1184.7	1184.5	1184.5	1184.5	1184.5	1184.5	1185.6	1186.7
162.5°	1205.2	1204.6	1204.0	1203.4	1203.2	1203.3	1203.5	1203.7	1203.9	1205.0	1206.1
165°	1230.1	1229.5	1228.8	1228.2	1227.8	1227.8	1227.8	1227.8	1227.8	1229.1	1230.5
167.5°	1249.9	1249.0	1248.1	1247.2	1246.9	1247.1	1247.2	1247.4	1247.6	1249.0	1250.3
170°	1261.2	1260.3	1259.4	1258.5	1258.1	1258.1	1258.1	1258.1	1258.1	1259.6	1261.2
172.5°	1270.1	1269.2	1268.3	1267.4	1266.9	1266.9	1266.9	1266.9	1266.9	1268.3	1269.7
175°	1279.3	1278.4	1277.6	1276.7	1276.2	1276.2	1276.2	1276.2	1276.2	1277.6	1278.9
177.5°	1283.3	1282.6	1281.9	1281.2	1280.8	1280.8	1280.8	1280.8	1280.8	1281.9	1283.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4	1605.4
2.5°	1693.3	1693.3	1695.6	1703.8	1705.0	1712.0	1709.9
5°	1861.1	1874.1	1879.0	1899.6	1911.9	1917.4	1906.4
7.5°	2066.2	2102.9	2120.4	2142.0	2161.1	2166.9	2151.9
10°	2215.6	2254.1	2286.4	2306.4	2324.9	2337.3	2353.1
12.5°	2360.3	2407.5	2438.2	2466.4	2485.5	2501.1	2503.8
15°	2517.4	2588.9	2643.1	2683.0	2702.9	2713.2	2709.2
17.5°	2675.8	2742.1	2780.8	2821.5	2849.0	2850.4	2851.3
20°	2765.5	2830.0	2874.8	2905.0	2935.9	2934.6	2941.4
22.5°	2825.4	2876.3	2910.5	2932.4	2943.0	2937.8	2939.2
25°	2853.5	2868.5	2862.4	2827.3	2818.4	2786.1	2791.6
27.5°	2708.9	2637.4	2563.4	2468.3	2393.3	2333.3	2336.3
30°	2512.5	2386.1	2241.8	2120.8	2012.3	1982.1	1917.4
32.5°	2238.3	2048.5	1879.5	1766.8	1673.5	1648.3	1592.0
35°	1773.1	1588.9	1415.0	1310.6	1269.3	1211.6	1210.9
37.5°	1378.2	1216.0	1124.1	1045.7	1004.6	969.7	966.2
40°	1159.4	1032.9	963.5	907.2	866.7	840.5	834.4
42.5°	1006.5	904.2	839.3	804.4	773.2	759.7	749.6
45°	821.9	753.3	707.8	676.2	661.9	651.5	646.0
47.5°	687.5	641.5	610.6	589.6	577.8	566.9	569.9
50°	614.4	576.6	553.9	534.0	525.0	517.5	518.2
52.5°	555.5	521.6	503.3	488.9	477.8	472.4	469.8
55°	471.4	450.1	431.6	421.3	415.1	407.6	405.5
57.5°	402.1	385.7	370.5	358.9	357.4	350.1	351.0
60°	356.0	342.2	329.9	323.7	318.9	312.7	314.8
62.5°	318.1	306.5	295.3	290.1	285.4	280.8	281.8
65°	260.4	249.4	242.6	239.8	237.8	235.7	233.7
67.5°	207.5	200.9	196.5	190.7	186.4	185.7	183.6
70°	174.6	165.6	158.0	150.5	148.5	147.7	148.5
72.5°	140.0	134.3	132.2	128.6	128.2	126.3	127.5
75°	105.1	103.1	101.7	99.0	99.0	99.0	99.0
77.5°	77.6	76.2	75.4	74.9	74.2	73.2	73.1
80°	60.5	59.8	58.4	58.4	57.8	58.4	57.8
82.5°	45.6	45.5	44.1	44.1	43.4	43.0	43.4
85°	23.3	22.7	24.0	22.7	23.3	22.0	23.3
87.5°	12.0	12.1	11.7	11.8	11.4	12.5	11.5
90°	26.9	27.8	28.5	28.9	29.4	29.8	30.2
92.5°	40.9	41.6	41.8	41.5	41.3	41.0	40.7
95°	77.3	78.2	78.7	78.7	78.7	78.7	78.7
97.5°	119.9	120.9	121.3	121.3	121.2	121.1	121.0
100°	150.2	150.9	151.5	151.9	152.3	152.8	153.2
102.5°	185.7	186.3	186.6	186.5	186.4	186.4	186.3
105°	237.9	237.9	238.1	238.5	239.0	239.4	239.9
107.5°	295.9	296.6	296.8	296.6	296.3	296.0	295.8
110°	334.4	335.3	335.5	335.0	334.6	334.2	333.7



TEST NUMBER: P332349-840

CATALOG NUMBER: S123RDIP-S1000D1025U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.7	373.9	374.4	374.3	374.2	374.1	374.0
115°	430.1	430.3	430.3	430.1	429.9	429.7	429.4
117.5°	488.6	488.6	488.2	487.6	487.0	486.4	485.6
120°	527.6	527.4	526.9	526.5	526.1	525.6	525.2
122.5°	566.8	566.2	565.6	565.0	564.3	563.7	563.1
125°	625.3	624.4	623.5	622.7	621.8	620.9	620.0
127.5°	683.2	681.9	680.8	679.7	678.6	677.6	676.6
130°	722.1	721.2	719.9	718.4	716.8	715.3	713.7
132.5°	759.5	758.4	757.3	756.1	754.9	753.7	752.5
135°	815.9	815.0	814.3	813.9	813.3	812.9	812.5
137.5°	870.8	869.8	868.9	868.1	867.2	866.4	865.6
140°	907.6	907.4	906.5	904.9	903.3	901.8	900.2
142.5°	941.5	941.2	940.5	939.3	938.1	936.9	935.6
145°	991.3	991.0	990.5	989.6	988.7	987.7	986.8
147.5°	1038.5	1038.5	1037.8	1036.5	1035.1	1033.8	1032.5
150°	1067.5	1067.5	1066.8	1065.5	1064.2	1062.8	1061.5
152.5°	1094.4	1094.8	1094.4	1093.2	1092.1	1090.9	1089.7
155°	1133.8	1134.6	1134.3	1132.8	1131.1	1129.5	1128.0
157.5°	1167.1	1168.1	1167.9	1166.7	1165.4	1164.2	1162.9
160°	1187.8	1188.9	1189.0	1188.2	1187.3	1186.4	1185.5
162.5°	1207.2	1208.3	1208.1	1206.7	1205.3	1203.9	1202.4
165°	1231.8	1233.1	1233.0	1231.5	1229.9	1228.4	1226.8
167.5°	1251.7	1253.1	1253.1	1251.7	1250.3	1249.0	1247.6
170°	1262.7	1264.4	1264.4	1262.7	1261.2	1259.6	1258.1
172.5°	1271.1	1272.4	1272.4	1270.8	1269.3	1267.7	1266.1
175°	1280.2	1281.6	1281.4	1279.9	1278.3	1276.8	1275.2
177.5°	1284.0	1285.2	1285.1	1283.8	1282.5	1281.3	1280.0
180°	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2	1283.2

(END OF REPORT)