

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: P332193-840

Luminaire Tested: **S123DIW-S1000D1030U840-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332193-840  
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: S123DIW-S1000D1030U840-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7893.4 lumens  
Efficiency: N/A  
Efficacy: 129.0 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

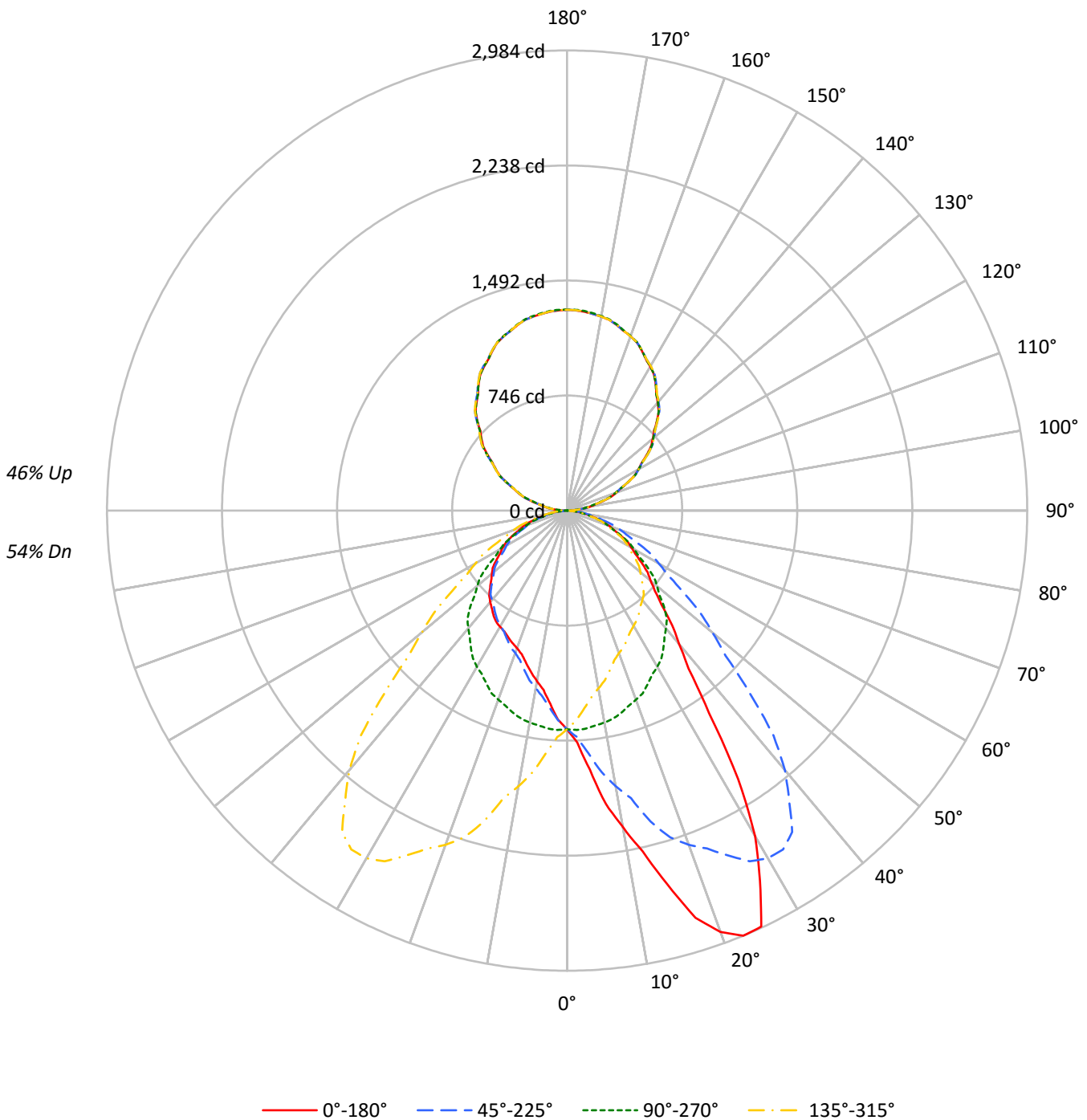
Input Watts (W): 61.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**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	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	47	45	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32	29
5	70	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25	22
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	15268	15268	15268	15268
5°	18208	15333	13588	15333
10°	22789	15255	12273	15255
15°	27952	15133	11426	15133
20°	33298	14940	10879	14940
25°	35357	14707	10757	14707
30°	30305	14537	10813	14537
35°	21077	14294	10926	14294
40°	15874	14011	10893	14011
45°	13181	13589	10753	13589
50°	11807	12727	10655	12727
55°	11038	11798	10524	11798
60°	10355	10828	10415	10828
65°	9732	9872	10083	9872
70°	9127	8781	9602	8781
75°	8172	7690	8804	7690
80°	7153	6304	7581	6304
85°	5595	4582	5088	4582



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	1.8
10°-20°	448.0	5.7
20°-30°	751.9	9.5
30°-40°	851.4	10.8
40°-50°	763.5	9.7
50°-60°	616.1	7.8
60°-70°	429.4	5.4
70°-80°	225.7	2.9
80°-90°	59.0	0.7
90°-100°	84.9	1.1
100°-110°	254.0	3.2
110°-120°	431.9	5.5
120°-130°	568.1	7.2
130°-140°	638.6	8.1
140°-150°	627.7	8.0
150°-160°	528.4	6.7
160°-170°	351.8	4.5
170°-180°	123.2	1.6
0°-30°	1339.7	17.0
0°-40°	2191.1	27.8
0°-60°	3570.7	45.2
0°-90°	4284.8	54.3
90°-120°	770.8	9.8
90°-150°	2605.2	33.0
90°-180°	3609.0	45.7
0°-180°	7893.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1418	1418	1418	1418	1418	
5°	1685	1419	1258	1419	1685	175
15°	2508	1358	1025	1358	2508	724
25°	2977	1238	906	1238	2977	1306
35°	1604	1088	832	1088	1604	1042
45°	866	893	706	893	866	685
55°	588	629	561	629	588	528
65°	382	388	396	388	382	380
75°	196	185	212	185	196	210
85°	45	37	41	37	45	54
90°	31	1	31	1	31	17
95°	80	60	80	60	80	82
105°	244	230	244	230	244	258
115°	436	435	436	435	436	432
125°	629	636	629	636	629	563
135°	825	826	825	826	825	634
145°	1002	1002	1002	1002	1002	625
155°	1145	1147	1145	1147	1145	527
165°	1245	1249	1245	1249	1245	351
175°	1294	1299	1294	1299	1294	123
180°	1302	1302	1302	1302	1302	



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1505.2	1504.2	1501.4	1503.6	1499.2	1493.2	1492.6	1487.1	1471.2	1470.1	1465.7
5°	1685.1	1679.5	1678.8	1678.2	1668.5	1655.5	1630.7	1628.7	1595.7	1579.2	1559.2
7.5°	1917.8	1920.8	1910.7	1901.9	1872.5	1853.1	1826.5	1792.6	1752.1	1711.0	1683.6
10°	2085.0	2107.7	2079.5	2060.2	2042.4	2008.7	1969.5	1920.8	1872.0	1814.9	1771.6
12.5°	2264.2	2275.3	2269.7	2251.6	2223.8	2172.5	2103.1	2049.4	2004.5	1909.5	1871.1
15°	2508.3	2550.2	2523.5	2461.5	2463.0	2414.2	2323.4	2223.8	2170.9	2087.7	1974.4
17.5°	2768.3	2773.6	2762.2	2710.6	2676.2	2609.2	2525.5	2429.9	2322.8	2222.1	2101.9
20°	2906.9	2902.8	2878.7	2851.9	2792.8	2740.6	2649.2	2542.6	2405.2	2306.2	2175.0
22.5°	2983.8	2977.0	2965.6	2943.2	2894.0	2837.9	2755.8	2639.4	2508.6	2372.3	2220.6
25°	2977.0	2985.9	2987.3	2981.1	2964.0	2930.2	2865.6	2772.9	2642.3	2467.1	2309.1
27.5°	2707.5	2720.3	2756.9	2789.6	2825.9	2863.1	2858.1	2812.1	2715.4	2564.0	2370.9
30°	2438.2	2410.7	2478.7	2564.7	2623.0	2726.1	2783.9	2787.3	2733.0	2603.1	2414.8
32.5°	2064.4	2094.6	2124.7	2230.4	2358.0	2473.8	2588.7	2681.2	2691.8	2605.4	2440.6
35°	1604.0	1641.7	1696.7	1751.7	1889.2	2007.3	2209.4	2385.3	2525.5	2544.1	2443.0
37.5°	1292.5	1311.2	1345.9	1401.1	1491.0	1631.1	1787.5	2009.8	2212.9	2364.0	2370.6
40°	1129.7	1135.3	1174.5	1216.4	1289.2	1404.6	1545.5	1742.0	1985.3	2196.4	2284.3
42.5°	1007.7	1019.8	1036.4	1076.7	1134.7	1221.5	1352.5	1515.0	1738.0	1980.7	2152.8
45°	865.9	879.6	889.9	916.8	958.0	1016.3	1107.8	1256.2	1425.9	1676.8	1908.3
47.5°	772.1	773.3	780.9	801.1	829.2	873.0	937.7	1033.0	1188.8	1392.3	1630.0
50°	705.1	716.1	718.8	734.6	756.6	788.9	842.5	923.6	1051.5	1230.1	1448.7
52.5°	657.8	661.1	668.8	680.2	699.4	724.6	771.0	834.6	934.8	1087.1	1288.1
55°	588.2	588.2	595.8	604.7	615.7	638.4	669.3	716.1	792.3	910.6	1076.8
57.5°	523.9	527.4	532.7	535.4	544.8	559.8	585.6	621.1	678.0	769.0	901.2
60°	481.0	487.3	486.6	492.0	500.3	512.0	533.9	562.8	613.7	686.5	797.9
62.5°	443.6	443.2	443.1	449.7	458.0	469.1	483.4	508.4	551.6	616.1	710.9
65°	382.1	380.7	385.6	389.6	392.4	400.6	411.6	433.6	462.5	510.6	584.1
67.5°	327.4	323.4	326.0	327.4	332.0	338.5	348.8	362.4	385.4	424.0	479.4
70°	290.0	286.6	285.9	287.2	291.3	296.2	303.8	316.8	338.1	369.0	409.6
72.5°	251.6	249.1	249.0	252.1	254.0	257.1	262.5	274.5	291.3	314.6	352.4
75°	196.5	196.5	196.5	197.2	199.2	202.1	206.1	212.4	225.4	241.9	267.3
77.5°	147.3	147.2	146.3	146.2	149.3	150.5	151.5	157.2	164.5	175.6	194.2
80°	115.4	112.0	113.4	115.4	116.8	117.5	119.6	121.0	127.1	133.3	146.3
82.5°	85.7	82.9	83.1	86.3	86.5	87.3	89.4	91.3	93.6	99.3	106.2
85°	45.3	45.3	46.0	46.0	46.8	46.0	48.1	48.8	48.8	52.2	56.4
87.5°	22.6	21.4	21.9	22.3	21.7	22.1	22.5	22.8	23.2	23.6	23.5
90°	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4	25.4	24.5	21.6
92.5°	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7	40.0	39.3	37.6
95°	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6	76.6	75.7	73.9
97.5°	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6	119.6	118.5	117.1
100°	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8	151.1	150.4	149.3
102.5°	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7	187.1	186.4	184.9
105°	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5	241.5	241.5	239.4
107.5°	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6	298.8	298.1	297.3
110°	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4	337.5	336.6	336.2



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3	376.2	375.1	375.0
115°	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3	436.1	435.9	436.3
117.5°	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9	495.9	496.0	496.6
120°	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6	535.8	536.1	537.2
122.5°	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8	576.4	577.0	577.6
125°	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6	636.5	637.4	637.8
127.5°	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6	695.9	697.1	697.6
130°	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8	734.7	735.6	736.3
132.5°	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9	773.0	774.1	774.6
135°	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9	829.8	830.7	831.0
137.5°	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7	885.7	886.7	886.1
140°	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4	921.6	921.8	921.6
142.5°	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7	955.9	956.2	955.8
145°	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3	1006.5	1006.7	1006.0
147.5°	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0	1054.0	1054.0	1053.4
150°	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5	1083.5	1083.5	1083.0
152.5°	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3	1110.0	1109.6	1109.4
155°	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7	1148.8	1147.9	1147.7
157.5°	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6	1182.7	1181.6	1181.5
160°	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5	1203.3	1202.1	1202.1
162.5°	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1	1222.9	1221.8	1221.6
165°	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9	1247.5	1246.2	1246.2
167.5°	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2	1266.1
170°	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9	1276.9
172.5°	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7	1287.3	1285.9	1285.9
175°	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0	1296.7	1295.3	1295.3
177.5°	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1	1301.0	1300.0	1300.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1462.4	1457.9	1453.6	1445.9	1439.3	1430.0	1427.1	1423.9	1414.0	1405.2	1398.6
5°	1551.7	1535.2	1511.2	1489.1	1471.3	1447.2	1433.5	1419.1	1398.5	1379.9	1364.8
7.5°	1645.2	1612.8	1575.4	1534.9	1497.3	1461.0	1431.7	1405.6	1376.7	1349.4	1328.1
10°	1719.4	1672.6	1620.4	1564.1	1516.0	1469.3	1430.1	1395.7	1358.6	1326.3	1299.5
12.5°	1804.0	1734.7	1662.7	1594.3	1537.4	1472.6	1425.1	1381.4	1339.4	1300.5	1270.4
15°	1904.2	1816.2	1731.1	1636.9	1550.3	1469.3	1412.9	1358.0	1309.1	1269.3	1230.8
17.5°	1995.5	1895.8	1783.5	1669.1	1564.6	1468.4	1389.6	1327.4	1266.4	1217.6	1179.2
20°	2047.2	1933.8	1806.6	1687.8	1572.4	1465.1	1378.6	1304.3	1238.3	1186.8	1143.5
22.5°	2091.7	1959.0	1827.6	1700.4	1571.8	1456.3	1358.2	1281.8	1210.3	1159.8	1113.8
25°	2137.9	1979.1	1847.2	1698.1	1554.5	1434.9	1324.9	1238.3	1166.9	1107.8	1060.4
27.5°	2177.5	1977.8	1821.2	1660.8	1527.2	1407.3	1290.0	1197.1	1121.3	1057.0	1009.0
30°	2203.8	1980.5	1794.3	1635.6	1500.9	1377.2	1263.0	1169.6	1089.9	1024.6	979.3
32.5°	2220.4	1978.8	1769.6	1600.3	1459.1	1349.7	1234.0	1137.2	1055.3	991.1	947.4
35°	2230.0	1966.8	1727.0	1527.6	1391.6	1285.1	1188.2	1087.8	1002.0	942.2	892.7
37.5°	2210.7	1941.4	1677.5	1457.5	1308.6	1203.7	1122.2	1036.7	954.5	888.7	846.1
40°	2180.5	1924.9	1639.0	1408.1	1251.4	1150.3	1081.0	997.1	916.0	853.5	813.6
42.5°	2122.7	1891.3	1596.7	1353.1	1192.0	1091.0	1027.1	957.0	880.3	821.6	781.7
45°	1981.9	1818.4	1533.2	1270.6	1104.3	999.9	943.5	892.7	823.2	766.2	731.8
47.5°	1786.5	1708.5	1441.4	1183.7	1012.8	912.3	853.7	812.8	762.1	716.1	683.1
50°	1650.6	1618.4	1379.2	1124.3	951.8	853.5	797.2	760.0	723.7	677.6	647.3
52.5°	1494.0	1513.9	1306.7	1062.7	889.7	793.0	740.0	710.5	677.4	639.6	613.3
55°	1273.4	1345.5	1181.3	959.4	797.2	705.1	654.9	628.7	609.6	581.4	558.7
57.5°	1066.8	1158.6	1045.8	852.8	706.3	626.8	578.8	550.3	538.0	523.2	505.3
60°	944.2	1034.9	949.1	781.3	645.3	569.7	527.0	503.0	490.7	480.4	465.2
62.5°	834.9	926.7	854.4	708.8	585.3	515.2	478.2	454.6	445.0	439.7	426.8
65°	684.5	763.5	715.4	595.8	499.6	437.8	404.0	387.6	378.7	376.6	368.3
67.5°	557.0	617.2	582.2	494.2	418.5	365.1	336.5	322.4	315.6	314.9	308.7
70°	473.5	529.9	503.0	423.3	358.0	316.1	291.3	279.0	274.9	274.2	270.7
72.5°	408.6	447.9	426.6	360.1	309.6	271.6	253.5	240.5	235.8	236.8	234.5
75°	302.4	331.9	319.5	273.5	233.0	208.2	193.1	184.9	180.8	182.8	180.1
77.5°	217.5	236.3	225.1	193.3	168.2	150.4	139.3	134.1	130.5	130.3	129.1
80°	164.2	175.2	169.1	149.8	129.2	114.1	105.1	101.7	99.7	99.0	98.3
82.5°	116.9	126.3	119.1	105.8	91.8	82.7	77.7	73.1	71.6	72.0	71.3
85°	59.1	62.5	59.8	51.5	46.0	41.9	39.2	37.1	35.7	36.5	35.0
87.5°	24.0	24.0	21.8	19.1	17.5	15.5	14.9	13.4	12.7	13.2	13.1
90°	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0	3.3	5.6	7.9
92.5°	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7	26.3	27.9	29.4
95°	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4	61.9	63.5	65.1
97.5°	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2	108.4	109.6	110.8
100°	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2	140.5	141.9	143.2
102.5°	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0	176.8	177.6	178.4
105°	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2	230.7	231.2	231.6
107.5°	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3	293.5	293.8	294.1
110°	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5	333.0	333.5	333.9





TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4	373.8	374.0	374.3
115°	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8	435.5	436.2	436.9
117.5°	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7	497.1	497.6	498.0
120°	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1	536.4	537.9	539.2
122.5°	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2	576.2	577.2	578.1
125°	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4	637.0	637.7	638.4
127.5°	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9	694.3	695.8	697.2
130°	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5	732.4	734.2	736.0
132.5°	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1	769.9	771.7	773.7
135°	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7	827.0	828.4	829.7
137.5°	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9	880.0	881.1	882.2
140°	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6	916.9	918.0	919.1
142.5°	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3	950.4	951.5	952.6
145°	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6	1002.1	1002.5	1003.0
147.5°	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4	1048.2	1049.0	1050.0
150°	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3	1079.8	1080.3	1080.8
152.5°	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6	1106.2	1106.8	1107.5
155°	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1	1181.8	1181.5	1181.2
160°	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2	1203.8	1203.3	1202.9
162.5°	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9	1223.2	1222.5	1221.9
165°	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2	1248.5	1247.9	1247.2
167.5°	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5	1268.6	1267.7	1266.8
170°	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9	1280.0	1279.1	1278.2
172.5°	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9	1289.0	1288.1	1287.2
175°	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4	1298.5	1297.6	1296.7
177.5°	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2	1302.5	1301.8	1301.0
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1394.7	1390.9	1385.4	1377.2	1370.6	1360.1	1360.1	1361.8	1361.8	1361.2	1360.1
5°	1352.4	1342.1	1329.8	1315.3	1300.2	1285.1	1282.3	1276.9	1272.7	1269.9	1266.5
7.5°	1307.8	1289.5	1271.4	1251.2	1232.8	1217.6	1207.0	1198.2	1192.5	1186.5	1182.1
10°	1277.5	1254.9	1233.6	1212.2	1188.8	1170.3	1158.6	1150.3	1144.2	1138.7	1136.0
12.5°	1241.7	1215.8	1192.3	1172.0	1146.5	1127.4	1116.3	1112.5	1105.2	1093.6	1087.5
15°	1189.5	1165.5	1137.3	1106.4	1094.0	1070.7	1057.6	1051.5	1047.3	1038.3	1035.6
17.5°	1144.9	1113.4	1081.8	1058.7	1035.7	1016.8	1009.5	1001.8	996.3	989.1	986.8
20°	1109.1	1081.0	1052.1	1027.3	1003.3	982.7	976.5	971.0	965.5	962.1	959.4
22.5°	1072.9	1044.7	1020.8	997.6	972.0	958.5	951.8	945.7	941.9	939.6	936.8
25°	1021.9	997.1	970.4	949.7	929.1	920.2	916.0	912.6	909.9	906.5	905.7
27.5°	976.2	949.3	927.6	908.4	893.5	886.1	882.1	880.4	881.0	882.2	883.0
30°	942.2	917.5	899.6	883.0	869.3	862.4	861.7	861.7	864.5	865.2	866.6
32.5°	910.8	890.5	872.6	856.7	846.3	841.5	844.1	844.1	846.4	848.2	850.6
35°	865.2	847.3	833.5	819.8	810.9	812.9	814.4	815.7	819.1	823.2	826.1
37.5°	821.6	806.1	791.8	781.0	777.0	780.6	784.0	786.9	790.8	794.0	796.8
40°	790.3	778.6	764.9	755.3	756.6	758.7	761.4	764.9	768.3	770.3	773.2
42.5°	761.1	748.9	738.5	730.5	732.5	735.1	736.7	738.5	742.5	746.2	747.8
45°	716.8	707.1	697.5	692.7	694.1	695.5	696.8	698.9	702.4	705.1	705.8
47.5°	666.8	660.1	653.7	649.0	651.2	650.7	652.5	656.8	657.9	659.5	663.4
50°	635.0	628.7	621.3	619.9	619.9	619.9	620.6	626.0	626.0	628.7	631.6
52.5°	599.8	595.8	591.0	588.5	587.4	587.4	590.3	593.1	594.2	598.0	600.8
55°	547.8	543.6	539.5	537.3	536.0	537.3	542.9	544.2	547.8	549.8	551.8
57.5°	493.4	490.3	487.0	485.8	485.5	487.4	490.4	494.5	495.3	501.7	504.8
60°	457.7	452.8	450.1	450.1	448.8	454.9	453.5	460.4	461.8	466.0	470.7
62.5°	420.8	414.3	413.2	413.2	415.3	417.0	418.9	421.9	425.6	430.7	434.4
65°	361.4	358.0	362.8	362.1	360.8	364.9	364.9	368.3	372.4	377.3	384.9
67.5°	305.3	303.5	303.9	303.9	306.0	308.3	310.2	313.3	318.2	323.3	328.2
70°	267.3	269.4	266.0	268.7	270.7	271.5	272.9	276.9	282.5	285.9	291.3
72.5°	230.5	230.4	230.8	231.9	233.9	235.2	236.5	241.3	247.2	250.1	254.6
75°	177.3	176.6	178.6	178.6	182.1	183.5	184.9	186.9	192.4	196.5	200.0
77.5°	129.5	130.3	129.9	132.2	131.3	131.5	135.8	137.8	138.5	146.5	148.3
80°	97.6	99.0	99.7	100.4	101.0	99.7	104.4	106.5	106.5	111.3	114.7
82.5°	70.1	70.9	72.7	73.4	73.5	74.9	75.3	76.9	78.5	80.6	85.0
85°	35.0	37.1	37.8	37.1	37.8	36.5	38.5	39.2	39.9	39.9	39.9
87.5°	13.0	14.1	14.1	15.2	15.3	16.5	16.7	15.8	15.9	17.8	15.7
90°	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4	27.3	28.2	28.9
92.5°	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7	41.5	42.2	42.4
95°	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6	78.5	79.4	79.8
97.5°	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6	121.6	122.7	123.1
100°	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8	152.5	153.1	153.7
102.5°	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7	188.4	189.1	189.5
105°	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5	241.5	241.5	241.7
107.5°	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6	300.3	301.0	301.2
110°	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4	339.3	340.2	340.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3	378.3	379.4	379.9
115°	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3	436.6	436.8	436.8
117.5°	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9	495.8	495.8	495.4
120°	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6	535.4	535.2	534.8
122.5°	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8	575.2	574.7	574.0
125°	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6	634.7	633.8	632.9
127.5°	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6	693.4	692.1	690.8
130°	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8	732.9	732.0	730.7
132.5°	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9	770.8	769.7	768.6
135°	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9	828.0	827.1	826.5
137.5°	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7	883.7	882.8	881.9
140°	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4	921.1	920.9	920.0
142.5°	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7	955.5	955.3	954.5
145°	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3	1006.0	1005.8	1005.2
147.5°	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0	1054.0	1054.0	1053.3
150°	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5	1083.5	1083.5	1082.8
152.5°	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3	1110.8	1111.2	1110.8
155°	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7	1150.6	1151.5	1151.2
157.5°	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6	1184.6	1185.5	1185.4
160°	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5	1205.6	1206.7	1206.8
162.5°	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1	1225.2	1226.4	1226.2
165°	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9	1250.2	1251.6	1251.5
167.5°	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8
170°	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2
172.5°	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7	1290.1	1291.5	1291.4
175°	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0	1299.4	1300.7	1300.6
177.5°	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1	1303.2	1304.3	1304.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1356.2	1355.7	1359.6	1356.9	1359.6	1355.7	1356.2	1360.1	1361.2	1361.8	1361.8
5°	1262.4	1264.5	1257.6	1257.6	1257.6	1264.5	1262.4	1266.5	1269.9	1272.7	1276.9
7.5°	1178.8	1175.8	1176.1	1172.4	1176.1	1175.8	1178.8	1182.1	1186.5	1192.5	1198.2
10°	1127.7	1123.6	1122.2	1122.9	1122.2	1123.6	1127.7	1136.0	1138.7	1144.2	1150.3
12.5°	1085.4	1084.6	1075.5	1075.6	1075.5	1084.6	1085.4	1087.5	1093.6	1105.2	1112.5
15°	1035.6	1022.6	1021.2	1025.3	1021.2	1022.6	1035.6	1035.6	1038.3	1047.3	1051.5
17.5°	985.7	978.9	979.3	977.2	979.3	978.9	985.7	986.8	989.1	996.3	1001.8
20°	959.4	955.2	954.5	949.7	954.5	955.2	959.4	959.4	962.1	965.5	971.0
22.5°	935.1	933.8	934.2	928.9	934.2	933.8	935.1	936.8	939.6	941.9	945.7
25°	905.0	908.5	905.7	905.7	905.7	908.5	905.0	905.7	906.5	909.9	912.6
27.5°	884.7	884.5	883.2	883.2	883.2	884.5	884.7	883.0	882.2	881.0	880.4
30°	869.3	868.6	870.0	870.0	870.0	868.6	869.3	866.6	865.2	864.5	861.7
32.5°	853.9	854.9	855.2	855.7	855.2	854.9	853.9	850.6	848.2	846.4	844.1
35°	830.1	830.8	832.9	831.5	832.9	830.8	830.1	826.1	823.2	819.1	815.7
37.5°	798.0	801.1	800.4	801.5	800.4	801.1	798.0	796.8	794.0	790.8	786.9
40°	773.8	775.9	775.2	775.2	775.2	775.9	773.8	773.2	770.3	768.3	764.9
42.5°	749.0	750.5	748.8	747.7	748.8	750.5	749.0	747.8	746.2	742.5	738.5
45°	708.5	707.1	709.2	706.4	709.2	707.1	708.5	705.8	705.1	702.4	698.9
47.5°	663.2	664.5	665.1	667.1	665.1	664.5	663.2	663.4	659.5	657.9	656.8
50°	632.9	637.0	637.0	636.3	637.0	637.0	632.9	631.6	628.7	626.0	626.0
52.5°	603.2	605.1	607.9	607.7	607.9	605.1	603.2	600.8	598.0	594.2	593.1
55°	557.3	558.7	560.1	560.8	560.1	558.7	557.3	551.8	549.8	547.8	544.2
57.5°	509.8	509.2	512.5	513.5	512.5	509.2	509.8	504.8	501.7	495.3	494.5
60°	476.3	476.3	481.7	483.8	481.7	476.3	476.3	470.7	466.0	461.8	460.4
62.5°	440.5	442.7	448.2	445.4	448.2	442.7	440.5	434.4	430.7	425.6	421.9
65°	388.3	393.7	393.0	395.9	393.0	393.7	388.3	384.9	377.3	372.4	368.3
67.5°	333.7	337.1	342.0	342.5	342.0	337.1	333.7	328.2	323.3	318.2	313.3
70°	296.9	300.3	303.1	305.1	303.1	300.3	296.9	291.3	285.9	282.5	276.9
72.5°	261.2	263.0	269.5	266.6	269.5	263.0	261.2	254.6	250.1	247.2	241.3
75°	204.8	209.5	213.7	211.7	213.7	209.5	204.8	200.0	196.5	192.4	186.9
77.5°	151.5	156.2	158.1	156.4	158.1	156.2	151.5	148.3	146.5	138.5	137.8
80°	119.6	118.9	123.0	122.3	123.0	118.9	119.6	114.7	111.3	106.5	106.5
82.5°	87.7	87.1	89.0	89.4	89.0	87.1	87.7	85.0	80.6	78.5	76.9
85°	42.6	44.6	41.9	41.2	41.9	44.6	42.6	39.9	39.9	39.9	39.2
87.5°	15.8	15.9	15.3	14.9	15.3	15.9	15.8	15.7	17.8	15.9	15.8
90°	29.3	29.8	30.2	30.7	30.2	29.8	29.3	28.9	28.2	27.3	26.4
92.5°	42.1	41.9	41.6	41.3	41.6	41.9	42.1	42.4	42.2	41.5	40.7
95°	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.4	78.5	77.6
97.5°	123.0	123.0	122.9	122.8	122.9	123.0	123.0	123.1	122.7	121.6	120.6
100°	154.1	154.6	155.0	155.5	155.0	154.6	154.1	153.7	153.1	152.5	151.8
102.5°	189.3	189.2	189.1	189.0	189.1	189.2	189.3	189.5	189.1	188.4	187.7
105°	242.2	242.6	243.1	243.5	243.1	242.6	242.2	241.7	241.5	241.5	241.5
107.5°	301.0	300.7	300.4	300.1	300.4	300.7	301.0	301.2	301.0	300.3	299.6
110°	340.0	339.5	339.1	338.6	339.1	339.5	340.0	340.4	340.2	339.3	338.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	379.8	379.7	379.7	379.6	379.7	379.7	379.8	379.9	379.4	378.3	377.3
115°	436.6	436.3	436.1	435.9	436.1	436.3	436.6	436.8	436.8	436.6	436.3
117.5°	494.8	494.2	493.5	492.9	493.5	494.2	494.8	495.4	495.8	495.8	495.9
120°	534.4	533.9	533.5	533.0	533.5	533.9	534.4	534.8	535.2	535.4	535.6
122.5°	573.4	572.8	572.2	571.5	572.2	572.8	573.4	574.0	574.7	575.2	575.8
125°	632.0	631.1	630.2	629.2	630.2	631.1	632.0	632.9	633.8	634.7	635.6
127.5°	689.8	688.8	687.7	686.7	687.7	688.8	689.8	690.8	692.1	693.4	694.6
130°	729.1	727.5	726.0	724.4	726.0	727.5	729.1	730.7	732.0	732.9	733.8
132.5°	767.3	766.1	764.9	763.7	764.9	766.1	767.3	768.6	769.7	770.8	771.9
135°	826.0	825.6	825.1	824.7	825.1	825.6	826.0	826.5	827.1	828.0	828.9
137.5°	881.0	880.2	879.3	878.5	879.3	880.2	881.0	881.9	882.8	883.7	884.7
140°	918.4	916.9	915.2	913.6	915.2	916.9	918.4	920.0	920.9	921.1	921.4
142.5°	953.3	952.1	950.9	949.7	950.9	952.1	953.3	954.5	955.3	955.5	955.7
145°	1004.3	1003.4	1002.5	1001.6	1002.5	1003.4	1004.3	1005.2	1005.8	1006.0	1006.3
147.5°	1052.0	1050.6	1049.2	1047.8	1049.2	1050.6	1052.0	1053.3	1054.0	1054.0	1054.0
150°	1081.5	1080.1	1078.7	1077.3	1078.7	1080.1	1081.5	1082.8	1083.5	1083.5	1083.5
152.5°	1109.5	1108.3	1107.1	1106.0	1107.1	1108.3	1109.5	1110.8	1111.2	1110.8	1110.3
155°	1149.6	1148.0	1146.5	1144.9	1146.5	1148.0	1149.6	1151.2	1151.5	1150.6	1149.7
157.5°	1184.1	1182.9	1181.5	1180.2	1181.5	1182.9	1184.1	1185.4	1185.5	1184.6	1183.6
160°	1205.9	1205.0	1204.1	1203.2	1204.1	1205.0	1205.9	1206.8	1206.7	1205.6	1204.5
162.5°	1224.8	1223.2	1221.8	1220.3	1221.8	1223.2	1224.8	1226.2	1226.4	1225.2	1224.1
165°	1249.9	1248.3	1246.7	1245.2	1246.7	1248.3	1249.9	1251.5	1251.6	1250.2	1248.9
167.5°	1270.4	1269.0	1267.6	1266.2	1267.6	1269.0	1270.4	1271.8	1271.8	1270.4	1269.0
170°	1281.6	1280.0	1278.4	1276.9	1278.4	1280.0	1281.6	1283.2	1283.2	1281.6	1280.0
172.5°	1289.8	1288.2	1286.6	1285.1	1286.6	1288.2	1289.8	1291.4	1291.5	1290.1	1288.7
175°	1299.0	1297.4	1295.9	1294.2	1295.9	1297.4	1299.0	1300.6	1300.7	1299.4	1298.0
177.5°	1302.9	1301.7	1300.4	1299.2	1300.4	1301.7	1302.9	1304.2	1304.3	1303.2	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1360.1	1360.1	1370.6	1377.2	1385.4	1390.9	1394.7	1398.6	1405.2	1414.0	1423.9
5°	1282.3	1285.1	1300.2	1315.3	1329.8	1342.1	1352.4	1364.8	1379.9	1398.5	1419.1
7.5°	1207.0	1217.6	1232.8	1251.2	1271.4	1289.5	1307.8	1328.1	1349.4	1376.7	1405.6
10°	1158.6	1170.3	1188.8	1212.2	1233.6	1254.9	1277.5	1299.5	1326.3	1358.6	1395.7
12.5°	1116.3	1127.4	1146.5	1172.0	1192.3	1215.8	1241.7	1270.4	1300.5	1339.4	1381.4
15°	1057.6	1070.7	1094.0	1106.4	1137.3	1165.5	1189.5	1230.8	1269.3	1309.1	1358.0
17.5°	1009.5	1016.8	1035.7	1058.7	1081.8	1113.4	1144.9	1179.2	1217.6	1266.4	1327.4
20°	976.5	982.7	1003.3	1027.3	1052.1	1081.0	1109.1	1143.5	1186.8	1238.3	1304.3
22.5°	951.8	958.5	972.0	997.6	1020.8	1044.7	1072.9	1113.8	1159.8	1210.3	1281.8
25°	916.0	920.2	929.1	949.7	970.4	997.1	1021.9	1060.4	1107.8	1166.9	1238.3
27.5°	882.1	886.1	893.5	908.4	927.6	949.3	976.2	1009.0	1057.0	1121.3	1197.1
30°	861.7	862.4	869.3	883.0	899.6	917.5	942.2	979.3	1024.6	1089.9	1169.6
32.5°	844.1	841.5	846.3	856.7	872.6	890.5	910.8	947.4	991.1	1055.3	1137.2
35°	814.4	812.9	810.9	819.8	833.5	847.3	865.2	892.7	942.2	1002.0	1087.8
37.5°	784.0	780.6	777.0	781.0	791.8	806.1	821.6	846.1	888.7	954.5	1036.7
40°	761.4	758.7	756.6	755.3	764.9	778.6	790.3	813.6	853.5	916.0	997.1
42.5°	736.7	735.1	732.5	730.5	738.5	748.9	761.1	781.7	821.6	880.3	957.0
45°	696.8	695.5	694.1	692.7	697.5	707.1	716.8	731.8	766.2	823.2	892.7
47.5°	652.5	650.7	651.2	649.0	653.7	660.1	666.8	683.1	716.1	762.1	812.8
50°	620.6	619.9	619.9	619.9	621.3	628.7	635.0	647.3	677.6	723.7	760.0
52.5°	590.3	587.4	587.4	588.5	591.0	595.8	599.8	613.3	639.6	677.4	710.5
55°	542.9	537.3	536.0	537.3	539.5	543.6	547.8	558.7	581.4	609.6	628.7
57.5°	490.4	487.4	485.5	485.8	487.0	490.3	493.4	505.3	523.2	538.0	550.3
60°	453.5	454.9	448.8	450.1	450.1	452.8	457.7	465.2	480.4	490.7	503.0
62.5°	418.9	417.0	415.3	413.2	413.2	414.3	420.8	426.8	439.7	445.0	454.6
65°	364.9	364.9	360.8	362.1	362.8	358.0	361.4	368.3	376.6	378.7	387.6
67.5°	310.2	308.3	306.0	303.9	303.9	303.5	305.3	308.7	314.9	315.6	322.4
70°	272.9	271.5	270.7	268.7	266.0	269.4	267.3	270.7	274.2	274.9	279.0
72.5°	236.5	235.2	233.9	231.9	230.8	230.4	230.5	234.5	236.8	235.8	240.5
75°	184.9	183.5	182.1	178.6	178.6	176.6	177.3	180.1	182.8	180.8	184.9
77.5°	135.8	131.5	131.3	132.2	129.9	130.3	129.5	129.1	130.3	130.5	134.1
80°	104.4	99.7	101.0	100.4	99.7	99.0	97.6	98.3	99.0	99.7	101.7
82.5°	75.3	74.9	73.5	73.4	72.7	70.9	70.1	71.3	72.0	71.6	73.1
85°	38.5	36.5	37.8	37.1	37.8	37.1	35.0	35.0	36.5	35.7	37.1
87.5°	16.7	16.5	15.3	15.2	14.1	14.1	13.0	13.1	13.2	12.7	13.4
90°	25.4	24.5	21.6	18.7	15.7	12.7	10.1	7.9	5.6	3.3	1.0
92.5°	40.0	39.3	37.6	36.0	34.2	32.5	30.9	29.4	27.9	26.3	24.7
95°	76.6	75.7	73.9	72.1	70.3	68.5	66.8	65.1	63.5	61.9	60.4
97.5°	119.6	118.5	117.1	115.8	114.5	113.2	112.0	110.8	109.6	108.4	107.2
100°	151.1	150.4	149.3	148.1	147.0	145.8	144.6	143.2	141.9	140.5	139.2
102.5°	187.1	186.4	184.9	183.4	181.9	180.4	179.3	178.4	177.6	176.8	176.0
105°	241.5	241.5	239.4	237.3	235.3	233.3	232.1	231.6	231.2	230.7	230.2
107.5°	298.8	298.1	297.3	296.5	295.7	294.9	294.3	294.1	293.8	293.5	293.3
110°	337.5	336.6	336.2	335.7	335.3	334.8	334.4	333.9	333.5	333.0	332.5



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	376.2	375.1	375.0	374.9	374.8	374.7	374.6	374.3	374.0	373.8	373.4
115°	436.1	435.9	436.3	436.8	437.2	437.7	437.6	436.9	436.2	435.5	434.8
117.5°	495.9	496.0	496.6	497.2	497.8	498.4	498.5	498.0	497.6	497.1	496.7
120°	535.8	536.1	537.2	538.4	539.5	540.7	540.6	539.2	537.9	536.4	535.1
122.5°	576.4	577.0	577.6	578.2	578.9	579.4	579.2	578.1	577.2	576.2	575.2
125°	636.5	637.4	637.8	638.3	638.7	639.2	639.1	638.4	637.7	637.0	636.4
127.5°	695.9	697.1	697.6	698.1	698.6	699.1	698.6	697.2	695.8	694.3	692.9
130°	734.7	735.6	736.3	737.0	737.7	738.3	737.8	736.0	734.2	732.4	730.5
132.5°	773.0	774.1	774.6	775.1	775.6	776.1	775.5	773.7	771.7	769.9	768.1
135°	829.8	830.7	831.0	831.2	831.4	831.6	831.1	829.7	828.4	827.0	825.7
137.5°	885.7	886.7	886.1	885.4	884.8	884.2	883.4	882.2	881.1	880.0	878.9
140°	921.6	921.8	921.6	921.4	921.1	920.9	920.2	919.1	918.0	916.9	915.6
142.5°	955.9	956.2	955.8	955.3	954.9	954.5	953.8	952.6	951.5	950.4	949.3
145°	1006.5	1006.7	1006.0	1005.4	1004.7	1004.0	1003.4	1003.0	1002.5	1002.1	1001.6
147.5°	1054.0	1054.0	1053.4	1052.8	1052.1	1051.5	1050.8	1050.0	1049.0	1048.2	1047.4
150°	1083.5	1083.5	1083.0	1082.6	1082.1	1081.7	1081.2	1080.8	1080.3	1079.8	1079.3
152.5°	1110.0	1109.6	1109.4	1109.1	1108.8	1108.5	1108.1	1107.5	1106.8	1106.2	1105.6
155°	1148.8	1147.9	1147.7	1147.5	1147.2	1147.0	1146.9	1146.9	1146.9	1146.9	1146.9
157.5°	1182.7	1181.6	1181.5	1181.3	1181.1	1180.9	1181.0	1181.2	1181.5	1181.8	1182.1
160°	1203.3	1202.1	1202.1	1202.1	1202.1	1202.1	1202.3	1202.9	1203.3	1203.8	1204.2
162.5°	1222.9	1221.8	1221.6	1221.4	1221.2	1221.0	1221.3	1221.9	1222.5	1223.2	1223.9
165°	1247.5	1246.2	1246.2	1246.2	1246.2	1246.2	1246.5	1247.2	1247.9	1248.5	1249.2
167.5°	1267.6	1266.2	1266.1	1265.9	1265.7	1265.5	1265.9	1266.8	1267.7	1268.6	1269.5
170°	1278.4	1276.9	1276.9	1276.9	1276.9	1276.9	1277.3	1278.2	1279.1	1280.0	1280.9
172.5°	1287.3	1285.9	1285.9	1285.9	1285.9	1285.9	1286.3	1287.2	1288.1	1289.0	1289.9
175°	1296.7	1295.3	1295.3	1295.3	1295.3	1295.3	1295.8	1296.7	1297.6	1298.5	1299.4
177.5°	1301.0	1300.0	1300.0	1300.0	1300.0	1300.0	1300.3	1301.0	1301.8	1302.5	1303.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1427.1	1430.0	1439.3	1445.9	1453.6	1457.9	1462.4	1465.7	1470.1	1471.2	1487.1
5°	1433.5	1447.2	1471.3	1489.1	1511.2	1535.2	1551.7	1559.2	1579.2	1595.7	1628.7
7.5°	1431.7	1461.0	1497.3	1534.9	1575.4	1612.8	1645.2	1683.6	1711.0	1752.1	1792.6
10°	1430.1	1469.3	1516.0	1564.1	1620.4	1672.6	1719.4	1771.6	1814.9	1872.0	1920.8
12.5°	1425.1	1472.6	1537.4	1594.3	1662.7	1734.7	1804.0	1871.1	1909.5	2004.5	2049.4
15°	1412.9	1469.3	1550.3	1636.9	1731.1	1816.2	1904.2	1974.4	2087.7	2170.9	2223.8
17.5°	1389.6	1468.4	1564.6	1669.1	1783.5	1895.8	1995.5	2101.9	2222.1	2322.8	2429.9
20°	1378.6	1465.1	1572.4	1687.8	1806.6	1933.8	2047.2	2175.0	2306.2	2405.2	2542.6
22.5°	1358.2	1456.3	1571.8	1700.4	1827.6	1959.0	2091.7	2220.6	2372.3	2508.6	2639.4
25°	1324.9	1434.9	1554.5	1698.1	1847.2	1979.1	2137.9	2309.1	2467.1	2642.3	2772.9
27.5°	1290.0	1407.3	1527.2	1660.8	1821.2	1977.8	2177.5	2370.9	2564.0	2715.4	2812.1
30°	1263.0	1377.2	1500.9	1635.6	1794.3	1980.5	2203.8	2414.8	2603.1	2733.0	2787.3
32.5°	1234.0	1349.7	1459.1	1600.3	1769.6	1978.8	2220.4	2440.6	2605.4	2691.8	2681.2
35°	1188.2	1285.1	1391.6	1527.6	1727.0	1966.8	2230.0	2443.0	2544.1	2525.5	2385.3
37.5°	1122.2	1203.7	1308.6	1457.5	1677.5	1941.4	2210.7	2370.6	2364.0	2212.9	2009.8
40°	1081.0	1150.3	1251.4	1408.1	1639.0	1924.9	2180.5	2284.3	2196.4	1985.3	1742.0
42.5°	1027.1	1091.0	1192.0	1353.1	1596.7	1891.3	2122.7	2152.8	1980.7	1738.0	1515.0
45°	943.5	999.9	1104.3	1270.6	1533.2	1818.4	1981.9	1908.3	1676.8	1425.9	1256.2
47.5°	853.7	912.3	1012.8	1183.7	1441.4	1708.5	1786.5	1630.0	1392.3	1188.8	1033.0
50°	797.2	853.5	951.8	1124.3	1379.2	1618.4	1650.6	1448.7	1230.1	1051.5	923.6
52.5°	740.0	793.0	889.7	1062.7	1306.7	1513.9	1494.0	1288.1	1087.1	934.8	834.6
55°	654.9	705.1	797.2	959.4	1181.3	1345.5	1273.4	1076.8	910.6	792.3	716.1
57.5°	578.8	626.8	706.3	852.8	1045.8	1158.6	1066.8	901.2	769.0	678.0	621.1
60°	527.0	569.7	645.3	781.3	949.1	1034.9	944.2	797.9	686.5	613.7	562.8
62.5°	478.2	515.2	585.3	708.8	854.4	926.7	834.9	710.9	616.1	551.6	508.4
65°	404.0	437.8	499.6	595.8	715.4	763.5	684.5	584.1	510.6	462.5	433.6
67.5°	336.5	365.1	418.5	494.2	582.2	617.2	557.0	479.4	424.0	385.4	362.4
70°	291.3	316.1	358.0	423.3	503.0	529.9	473.5	409.6	369.0	338.1	316.8
72.5°	253.5	271.6	309.6	360.1	426.6	447.9	408.6	352.4	314.6	291.3	274.5
75°	193.1	208.2	233.0	273.5	319.5	331.9	302.4	267.3	241.9	225.4	212.4
77.5°	139.3	150.4	168.2	193.3	225.1	236.3	217.5	194.2	175.6	164.5	157.2
80°	105.1	114.1	129.2	149.8	169.1	175.2	164.2	146.3	133.3	127.1	121.0
82.5°	77.7	82.7	91.8	105.8	119.1	126.3	116.9	106.2	99.3	93.6	91.3
85°	39.2	41.9	46.0	51.5	59.8	62.5	59.1	56.4	52.2	48.8	48.8
87.5°	14.9	15.5	17.5	19.1	21.8	24.0	24.0	23.5	23.6	23.2	22.8
90°	3.3	5.6	7.9	10.1	12.7	15.7	18.7	21.6	24.5	25.4	26.4
92.5°	26.3	27.9	29.4	30.9	32.5	34.2	36.0	37.6	39.3	40.0	40.7
95°	61.9	63.5	65.1	66.8	68.5	70.3	72.1	73.9	75.7	76.6	77.6
97.5°	108.4	109.6	110.8	112.0	113.2	114.5	115.8	117.1	118.5	119.6	120.6
100°	140.5	141.9	143.2	144.6	145.8	147.0	148.1	149.3	150.4	151.1	151.8
102.5°	176.8	177.6	178.4	179.3	180.4	181.9	183.4	184.9	186.4	187.1	187.7
105°	230.7	231.2	231.6	232.1	233.3	235.3	237.3	239.4	241.5	241.5	241.5
107.5°	293.5	293.8	294.1	294.3	294.9	295.7	296.5	297.3	298.1	298.8	299.6
110°	333.0	333.5	333.9	334.4	334.8	335.3	335.7	336.2	336.6	337.5	338.4





TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.8	374.0	374.3	374.6	374.7	374.8	374.9	375.0	375.1	376.2	377.3
115°	435.5	436.2	436.9	437.6	437.7	437.2	436.8	436.3	435.9	436.1	436.3
117.5°	497.1	497.6	498.0	498.5	498.4	497.8	497.2	496.6	496.0	495.9	495.9
120°	536.4	537.9	539.2	540.6	540.7	539.5	538.4	537.2	536.1	535.8	535.6
122.5°	576.2	577.2	578.1	579.2	579.4	578.9	578.2	577.6	577.0	576.4	575.8
125°	637.0	637.7	638.4	639.1	639.2	638.7	638.3	637.8	637.4	636.5	635.6
127.5°	694.3	695.8	697.2	698.6	699.1	698.6	698.1	697.6	697.1	695.9	694.6
130°	732.4	734.2	736.0	737.8	738.3	737.7	737.0	736.3	735.6	734.7	733.8
132.5°	769.9	771.7	773.7	775.5	776.1	775.6	775.1	774.6	774.1	773.0	771.9
135°	827.0	828.4	829.7	831.1	831.6	831.4	831.2	831.0	830.7	829.8	828.9
137.5°	880.0	881.1	882.2	883.4	884.2	884.8	885.4	886.1	886.7	885.7	884.7
140°	916.9	918.0	919.1	920.2	920.9	921.1	921.4	921.6	921.8	921.6	921.4
142.5°	950.4	951.5	952.6	953.8	954.5	954.9	955.3	955.8	956.2	955.9	955.7
145°	1002.1	1002.5	1003.0	1003.4	1004.0	1004.7	1005.4	1006.0	1006.7	1006.5	1006.3
147.5°	1048.2	1049.0	1050.0	1050.8	1051.5	1052.1	1052.8	1053.4	1054.0	1054.0	1054.0
150°	1079.8	1080.3	1080.8	1081.2	1081.7	1082.1	1082.6	1083.0	1083.5	1083.5	1083.5
152.5°	1106.2	1106.8	1107.5	1108.1	1108.5	1108.8	1109.1	1109.4	1109.6	1110.0	1110.3
155°	1146.9	1146.9	1146.9	1146.9	1147.0	1147.2	1147.5	1147.7	1147.9	1148.8	1149.7
157.5°	1181.8	1181.5	1181.2	1181.0	1180.9	1181.1	1181.3	1181.5	1181.6	1182.7	1183.6
160°	1203.8	1203.3	1202.9	1202.3	1202.1	1202.1	1202.1	1202.1	1202.1	1203.3	1204.5
162.5°	1223.2	1222.5	1221.9	1221.3	1221.0	1221.2	1221.4	1221.6	1221.8	1222.9	1224.1
165°	1248.5	1247.9	1247.2	1246.5	1246.2	1246.2	1246.2	1246.2	1246.2	1247.5	1248.9
167.5°	1268.6	1267.7	1266.8	1265.9	1265.5	1265.7	1265.9	1266.1	1266.2	1267.6	1269.0
170°	1280.0	1279.1	1278.2	1277.3	1276.9	1276.9	1276.9	1276.9	1276.9	1278.4	1280.0
172.5°	1289.0	1288.1	1287.2	1286.3	1285.9	1285.9	1285.9	1285.9	1285.9	1287.3	1288.7
175°	1298.5	1297.6	1296.7	1295.8	1295.3	1295.3	1295.3	1295.3	1295.3	1296.7	1298.0
177.5°	1302.5	1301.8	1301.0	1300.3	1300.0	1300.0	1300.0	1300.0	1300.0	1301.0	1302.1
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1492.6	1493.2	1499.2	1503.6	1501.4	1504.2	1505.2
5°	1630.7	1655.5	1668.5	1678.2	1678.8	1679.5	1685.1
7.5°	1826.5	1853.1	1872.5	1901.9	1910.7	1920.8	1917.8
10°	1969.5	2008.7	2042.4	2060.2	2079.5	2107.7	2085.0
12.5°	2103.1	2172.5	2223.8	2251.6	2269.7	2275.3	2264.2
15°	2323.4	2414.2	2463.0	2461.5	2523.5	2550.2	2508.3
17.5°	2525.5	2609.2	2676.2	2710.6	2762.2	2773.6	2768.3
20°	2649.2	2740.6	2792.8	2851.9	2878.7	2902.8	2906.9
22.5°	2755.8	2837.9	2894.0	2943.2	2965.6	2977.0	2983.8
25°	2865.6	2930.2	2964.0	2981.1	2987.3	2985.9	2977.0
27.5°	2858.1	2863.1	2825.9	2789.6	2756.9	2720.3	2707.5
30°	2783.9	2726.1	2623.0	2564.7	2478.7	2410.7	2438.2
32.5°	2588.7	2473.8	2358.0	2230.4	2124.7	2094.6	2064.4
35°	2209.4	2007.3	1889.2	1751.7	1696.7	1641.7	1604.0
37.5°	1787.5	1631.1	1491.0	1401.1	1345.9	1311.2	1292.5
40°	1545.5	1404.6	1289.2	1216.4	1174.5	1135.3	1129.7
42.5°	1352.5	1221.5	1134.7	1076.7	1036.4	1019.8	1007.7
45°	1107.8	1016.3	958.0	916.8	889.9	879.6	865.9
47.5°	937.7	873.0	829.2	801.1	780.9	773.3	772.1
50°	842.5	788.9	756.6	734.6	718.8	716.1	705.1
52.5°	771.0	724.6	699.4	680.2	668.8	661.1	657.8
55°	669.3	638.4	615.7	604.7	595.8	588.2	588.2
57.5°	585.6	559.8	544.8	535.4	532.7	527.4	523.9
60°	533.9	512.0	500.3	492.0	486.6	487.3	481.0
62.5°	483.4	469.1	458.0	449.7	443.1	443.2	443.6
65°	411.6	400.6	392.4	389.6	385.6	380.7	382.1
67.5°	348.8	338.5	332.0	327.4	326.0	323.4	327.4
70°	303.8	296.2	291.3	287.2	285.9	286.6	290.0
72.5°	262.5	257.1	254.0	252.1	249.0	249.1	251.6
75°	206.1	202.1	199.2	197.2	196.5	196.5	196.5
77.5°	151.5	150.5	149.3	146.2	146.3	147.2	147.3
80°	119.6	117.5	116.8	115.4	113.4	112.0	115.4
82.5°	89.4	87.3	86.5	86.3	83.1	82.9	85.7
85°	48.1	46.0	46.8	46.0	46.0	45.3	45.3
87.5°	22.5	22.1	21.7	22.3	21.9	21.4	22.6
90°	27.3	28.2	28.9	29.3	29.8	30.2	30.7
92.5°	41.5	42.2	42.4	42.1	41.9	41.6	41.3
95°	78.5	79.4	79.8	79.8	79.8	79.8	79.8
97.5°	121.6	122.7	123.1	123.0	123.0	122.9	122.8
100°	152.5	153.1	153.7	154.1	154.6	155.0	155.5
102.5°	188.4	189.1	189.5	189.3	189.2	189.1	189.0
105°	241.5	241.5	241.7	242.2	242.6	243.1	243.5
107.5°	300.3	301.0	301.2	301.0	300.7	300.4	300.1
110°	339.3	340.2	340.4	340.0	339.5	339.1	338.6



TEST NUMBER: P332193-840

CATALOG NUMBER: S123DIW-S1000D1030U840-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	378.3	379.4	379.9	379.8	379.7	379.7	379.6
115°	436.6	436.8	436.8	436.6	436.3	436.1	435.9
117.5°	495.8	495.8	495.4	494.8	494.2	493.5	492.9
120°	535.4	535.2	534.8	534.4	533.9	533.5	533.0
122.5°	575.2	574.7	574.0	573.4	572.8	572.2	571.5
125°	634.7	633.8	632.9	632.0	631.1	630.2	629.2
127.5°	693.4	692.1	690.8	689.8	688.8	687.7	686.7
130°	732.9	732.0	730.7	729.1	727.5	726.0	724.4
132.5°	770.8	769.7	768.6	767.3	766.1	764.9	763.7
135°	828.0	827.1	826.5	826.0	825.6	825.1	824.7
137.5°	883.7	882.8	881.9	881.0	880.2	879.3	878.5
140°	921.1	920.9	920.0	918.4	916.9	915.2	913.6
142.5°	955.5	955.3	954.5	953.3	952.1	950.9	949.7
145°	1006.0	1005.8	1005.2	1004.3	1003.4	1002.5	1001.6
147.5°	1054.0	1054.0	1053.3	1052.0	1050.6	1049.2	1047.8
150°	1083.5	1083.5	1082.8	1081.5	1080.1	1078.7	1077.3
152.5°	1110.8	1111.2	1110.8	1109.5	1108.3	1107.1	1106.0
155°	1150.6	1151.5	1151.2	1149.6	1148.0	1146.5	1144.9
157.5°	1184.6	1185.5	1185.4	1184.1	1182.9	1181.5	1180.2
160°	1205.6	1206.7	1206.8	1205.9	1205.0	1204.1	1203.2
162.5°	1225.2	1226.4	1226.2	1224.8	1223.2	1221.8	1220.3
165°	1250.2	1251.6	1251.5	1249.9	1248.3	1246.7	1245.2
167.5°	1270.4	1271.8	1271.8	1270.4	1269.0	1267.6	1266.2
170°	1281.6	1283.2	1283.2	1281.6	1280.0	1278.4	1276.9
172.5°	1290.1	1291.5	1291.4	1289.8	1288.2	1286.6	1285.1
175°	1299.4	1300.7	1300.6	1299.0	1297.4	1295.9	1294.2
177.5°	1303.2	1304.3	1304.2	1302.9	1301.7	1300.4	1299.2
180°	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4	1302.4

(END OF REPORT)