

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: P332459-830

Luminaire Tested: **S123RDIW-S1000D1030U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332459-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7102.3 lumens
Efficiency: N/A
Efficacy: 116.1 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

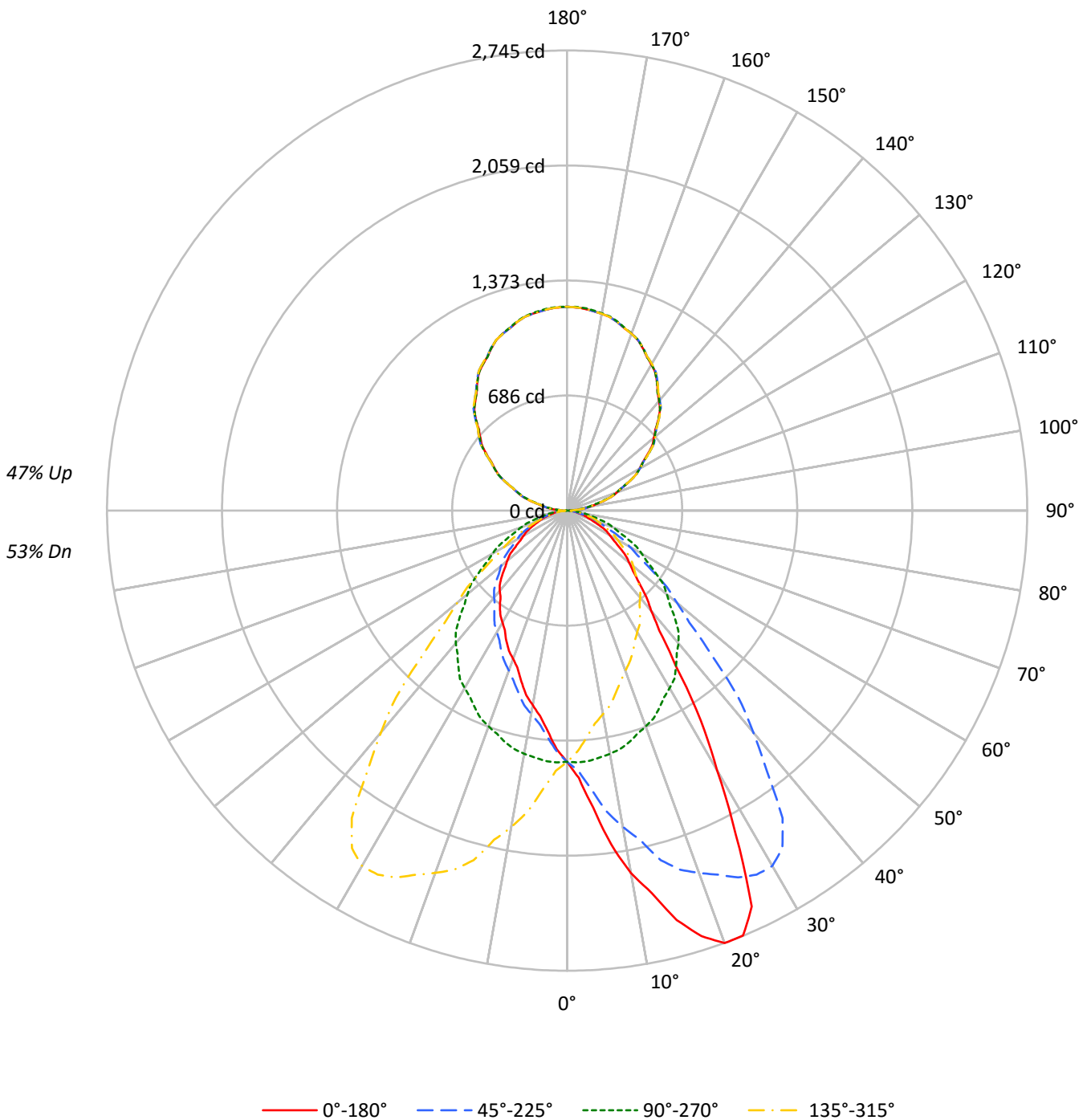
Input Watts (W): 61.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	95	91	88	92	88	85	82	75	73	71	63	62	60	53	52	51	46
2	91	84	78	73	84	78	73	68	67	63	60	56	54	51	47	45	44	39
3	83	74	67	61	77	69	63	58	59	55	51	50	47	44	42	40	38	34
4	76	66	58	52	70	61	55	50	53	48	44	45	42	38	38	35	33	30
5	70	59	51	45	65	55	48	43	48	42	38	41	37	34	35	32	29	26
6	65	53	45	40	60	50	43	38	43	38	34	37	33	30	32	28	26	23
7	60	48	40	35	56	45	38	33	39	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	23	21	19
9	52	40	33	28	48	38	31	27	33	28	24	29	25	22	25	21	19	17
10	49	37	30	25	45	35	28	24	31	25	22	27	23	20	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16129	16129	16129	16129
5°	19225	16197	14263	16197
10°	24004	16104	12885	16104
15°	28178	15940	11751	15940
20°	31447	15694	10786	15694
25°	30945	15435	10194	15435
30°	22243	15196	9583	15196
35°	14851	14884	9188	14884
40°	10942	14511	8778	14511
45°	9178	13855	8378	13855
50°	8098	12996	7819	12996
55°	7101	12014	7054	12014
60°	6325	11074	6463	11074
65°	5555	10063	6011	10063
70°	4362	9165	5492	9165
75°	3843	8006	5016	8006
80°	3341	6800	4934	6800
85°	2692	5471	5224	5471



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	2.1
10°-20°	460.3	6.5
20°-30°	723.2	10.2
30°-40°	754.5	10.6
40°-50°	645.7	9.1
50°-60°	492.2	6.9
60°-70°	315.5	4.4
70°-80°	151.8	2.1
80°-90°	43.8	0.6
90°-100°	79.2	1.1
100°-110°	237.0	3.3
110°-120°	403.1	5.7
120°-130°	530.3	7.5
130°-140°	596.0	8.4
140°-150°	585.8	8.2
150°-160°	493.2	6.9
160°-170°	328.3	4.6
170°-180°	115.0	1.6
0°-30°	1330.9	18.7
0°-40°	2085.5	29.4
0°-60°	3223.3	45.4
0°-90°	3734.3	52.6
90°-120°	719.4	10.1
90°-150°	2431.5	34.2
90°-180°	3368.0	47.4
0°-180°	7102.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1498	1498	1498	1498	1498	
5°	1779	1499	1320	1499	1779	184
15°	2529	1430	1054	1430	2529	717
25°	2606	1300	858	1300	2606	1120
35°	1130	1133	699	1133	1130	741
45°	603	910	550	910	603	474
55°	378	640	376	640	378	342
65°	218	395	236	395	218	215
75°	92	192	121	192	92	99
85°	22	44	42	44	22	26
90°	29	1	29	1	29	15
95°	74	56	74	56	74	76
105°	227	215	227	215	227	241
115°	407	406	407	406	407	403
125°	587	594	587	594	587	525
135°	770	771	770	771	770	592
145°	935	935	935	935	935	584
155°	1069	1070	1069	1070	1069	492
165°	1162	1166	1162	1166	1162	328
175°	1208	1213	1208	1213	1208	115
180°	1216	1216	1216	1216	1216	



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1595.9	1597.9	1591.3	1590.3	1582.5	1580.5	1580.5	1569.7	1563.0	1554.3	1549.2
5°	1779.3	1789.6	1784.4	1772.9	1753.7	1749.2	1737.0	1717.8	1695.9	1669.0	1656.1
7.5°	2008.5	2022.4	2017.0	1999.2	1979.1	1962.8	1928.4	1896.5	1851.7	1812.4	1778.9
10°	2196.2	2181.5	2169.9	2152.7	2134.0	2103.8	2067.9	2018.5	1961.5	1916.6	1866.6
12.5°	2336.8	2334.4	2319.8	2302.0	2275.7	2247.0	2202.9	2142.8	2076.4	2011.6	1954.3
15°	2528.6	2532.3	2522.7	2504.1	2466.9	2416.3	2349.6	2324.6	2229.6	2159.1	2088.5
17.5°	2661.2	2660.4	2659.1	2633.4	2595.4	2559.3	2497.5	2431.7	2345.7	2246.3	2151.3
20°	2745.3	2738.9	2740.2	2711.3	2683.1	2641.4	2581.2	2485.6	2415.0	2300.2	2202.1
22.5°	2743.3	2742.0	2746.9	2737.0	2716.5	2684.5	2637.0	2556.4	2466.3	2350.4	2240.0
25°	2605.5	2600.4	2630.5	2638.8	2671.5	2677.3	2663.2	2618.9	2533.6	2414.3	2277.7
27.5°	2180.6	2177.7	2233.7	2303.8	2392.6	2461.5	2528.3	2560.5	2533.6	2448.3	2311.3
30°	1789.6	1849.9	1878.1	1979.4	2092.4	2227.0	2345.0	2457.3	2484.9	2447.7	2335.4
32.5°	1485.8	1538.4	1562.0	1649.0	1754.2	1911.9	2089.1	2248.0	2360.2	2388.7	2321.1
35°	1130.2	1130.9	1184.7	1223.2	1320.7	1483.0	1654.9	1867.8	2079.5	2239.9	2256.5
37.5°	901.8	905.0	937.6	976.0	1049.1	1134.9	1286.3	1463.4	1707.9	1954.1	2098.4
40°	778.7	784.5	808.9	846.7	899.3	964.0	1082.1	1248.9	1452.8	1726.7	1950.6
42.5°	699.6	709.1	721.6	750.7	783.3	844.0	939.4	1068.3	1253.8	1512.8	1771.0
45°	602.9	608.0	617.7	631.1	660.6	703.0	767.1	853.8	1007.7	1216.2	1474.6
47.5°	531.9	529.1	539.3	550.3	569.9	598.7	641.7	712.4	822.2	989.5	1208.7
50°	483.6	483.0	490.0	498.4	517.0	538.2	573.4	626.7	713.9	852.4	1053.2
52.5°	438.5	440.9	445.9	456.3	469.8	486.8	518.5	556.9	631.8	751.4	918.8
55°	378.4	380.4	387.4	393.2	402.8	420.1	440.0	472.1	523.4	606.8	744.7
57.5°	327.6	326.8	333.6	335.0	345.8	360.0	375.3	400.3	437.4	499.5	592.3
60°	293.8	291.8	297.7	302.1	307.9	319.4	332.2	356.7	386.2	431.7	511.2
62.5°	263.0	262.1	266.4	270.8	275.6	286.1	296.9	315.6	338.9	377.3	440.5
65°	218.1	220.0	222.0	223.9	226.4	232.8	243.1	255.9	271.9	298.9	344.4
67.5°	171.4	173.3	174.0	178.0	183.4	187.5	193.7	205.1	216.3	239.0	264.9
70°	138.6	137.9	138.6	140.4	147.5	154.6	163.0	171.3	178.3	194.4	216.1
72.5°	119.0	117.9	119.6	120.0	123.4	125.4	130.6	138.5	147.5	158.4	174.1
75°	92.4	92.4	92.4	92.4	94.9	96.2	98.1	100.1	103.3	108.4	120.0
77.5°	68.2	68.3	69.3	69.9	70.4	71.2	72.4	74.3	75.4	78.1	83.1
80°	53.9	54.5	53.9	54.5	54.5	55.8	56.5	58.3	59.0	62.2	64.2
82.5°	40.5	40.2	40.5	41.2	41.2	42.5	42.6	44.0	44.1	45.8	47.7
85°	21.8	20.5	21.8	21.2	22.4	21.2	21.8	23.1	23.1	23.8	26.3
87.5°	10.8	11.8	10.7	11.1	11.0	11.4	11.2	11.1	12.0	11.2	11.2
90°	28.7	28.2	27.8	27.3	27.0	26.3	25.4	24.6	23.8	22.9	20.2
92.5°	38.5	38.8	39.1	39.3	39.6	39.4	38.7	38.0	37.3	36.7	35.1
95°	74.5	74.5	74.5	74.5	74.5	74.1	73.2	72.4	71.5	70.7	69.0
97.5°	114.6	114.7	114.8	114.8	114.9	114.5	113.5	112.5	111.6	110.6	109.3
100°	145.2	144.7	144.3	143.8	143.5	142.9	142.3	141.7	141.0	140.3	139.3
102.5°	176.4	176.5	176.6	176.7	176.8	176.5	175.9	175.2	174.7	174.0	172.6
105°	227.2	226.9	226.4	226.0	225.6	225.4	225.4	225.4	225.4	225.4	223.5
107.5°	280.1	280.4	280.7	281.0	281.2	281.0	280.3	279.7	278.9	278.2	277.5
110°	316.0	316.5	316.9	317.4	317.7	317.5	316.7	315.8	315.0	314.1	313.8



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	354.3	354.4	354.4	354.5	354.6	354.1	353.1	352.1	351.1	350.1	350.0
115°	406.8	407.0	407.2	407.5	407.6	407.6	407.5	407.2	407.0	406.8	407.2
117.5°	460.1	460.6	461.3	461.8	462.4	462.8	462.8	462.9	462.9	463.0	463.4
120°	497.5	497.9	498.3	498.8	499.2	499.5	499.7	499.9	500.1	500.4	501.4
122.5°	533.4	534.0	534.6	535.2	535.7	536.4	536.9	537.4	538.0	538.6	539.1
125°	587.3	588.1	589.0	589.8	590.7	591.5	592.4	593.2	594.1	594.9	595.3
127.5°	640.9	641.9	642.9	643.9	644.8	645.9	647.1	648.3	649.5	650.6	651.1
130°	676.1	677.6	679.0	680.5	682.0	683.2	684.0	684.9	685.7	686.5	687.2
132.5°	712.8	713.9	715.0	716.1	717.4	718.4	719.4	720.5	721.4	722.5	722.9
135°	769.7	770.1	770.5	770.9	771.4	771.9	772.8	773.6	774.5	775.3	775.6
137.5°	819.9	820.7	821.5	822.3	823.1	824.0	824.8	825.8	826.6	827.6	827.0
140°	852.7	854.2	855.7	857.1	858.7	859.5	859.7	860.0	860.2	860.4	860.2
142.5°	886.4	887.5	888.6	889.8	890.9	891.6	891.8	892.0	892.2	892.5	892.1
145°	934.8	935.7	936.5	937.4	938.2	938.8	939.0	939.2	939.4	939.6	939.0
147.5°	978.0	979.3	980.5	981.8	983.1	983.7	983.7	983.7	983.7	983.7	983.2
150°	1005.5	1006.8	1008.0	1009.4	1010.6	1011.3	1011.3	1011.3	1011.3	1011.3	1010.8
152.5°	1032.3	1033.3	1034.4	1035.6	1036.7	1037.1	1036.7	1036.3	1036.0	1035.7	1035.5
155°	1068.6	1070.1	1071.5	1073.0	1074.5	1074.8	1073.9	1073.1	1072.2	1071.4	1071.2
157.5°	1101.5	1102.8	1104.0	1105.1	1106.4	1106.5	1105.6	1104.7	1103.8	1102.9	1102.8
160°	1122.9	1123.8	1124.6	1125.5	1126.3	1126.2	1125.2	1124.2	1123.0	1122.0	1122.0
162.5°	1139.0	1140.4	1141.7	1143.1	1144.4	1144.6	1143.5	1142.5	1141.4	1140.4	1140.2
165°	1162.2	1163.6	1165.1	1166.6	1168.1	1168.2	1166.9	1165.6	1164.3	1163.1	1163.1
167.5°	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0	1185.7	1184.4	1183.1	1181.8	1181.7
170°	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7	1196.2	1194.7	1193.2	1191.8	1191.8
172.5°	1199.4	1200.8	1202.3	1203.8	1205.3	1205.4	1204.1	1202.8	1201.5	1200.1	1200.1
175°	1208.0	1209.5	1210.9	1212.4	1213.9	1214.0	1212.8	1211.4	1210.2	1208.9	1208.9
177.5°	1212.6	1213.7	1214.9	1216.1	1217.3	1217.4	1216.4	1215.3	1214.3	1213.3	1213.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1547.1	1545.6	1538.4	1530.2	1519.4	1512.2	1506.6	1503.5	1494.3	1483.0	1475.3
5°	1642.7	1623.4	1603.0	1577.9	1554.8	1531.1	1516.4	1499.0	1477.8	1454.2	1437.5
7.5°	1745.1	1707.3	1666.7	1624.8	1583.3	1546.1	1513.3	1485.2	1451.4	1417.4	1393.5
10°	1823.6	1768.4	1711.4	1652.9	1599.7	1549.7	1511.2	1473.4	1432.9	1393.8	1364.3
12.5°	1894.9	1822.3	1756.5	1684.8	1616.6	1556.9	1501.5	1457.0	1408.3	1366.6	1333.0
15°	1985.2	1910.8	1831.3	1722.2	1631.8	1556.1	1488.7	1430.4	1371.4	1320.0	1287.3
17.5°	2069.6	1957.7	1850.8	1759.8	1642.3	1547.7	1465.6	1395.7	1331.0	1276.6	1236.3
20°	2104.5	1996.1	1880.0	1764.0	1648.5	1542.7	1447.1	1370.1	1302.8	1241.1	1204.0
22.5°	2125.5	2002.8	1880.6	1755.8	1633.0	1523.1	1428.6	1344.0	1270.9	1212.4	1166.5
25°	2150.0	2003.8	1869.2	1746.0	1620.9	1501.6	1389.3	1299.6	1220.7	1158.4	1109.7
27.5°	2166.2	1994.2	1835.0	1698.1	1571.2	1452.5	1349.5	1254.3	1174.3	1108.5	1056.2
30°	2169.4	1986.5	1808.8	1660.7	1531.7	1422.7	1313.6	1222.6	1137.9	1068.0	1019.3
32.5°	2173.4	1967.6	1773.4	1616.0	1484.0	1376.0	1277.2	1190.2	1103.5	1034.6	984.9
35°	2156.5	1957.0	1719.7	1538.8	1406.7	1302.1	1213.0	1132.7	1047.4	980.7	930.1
37.5°	2083.6	1915.3	1664.0	1451.8	1313.6	1216.8	1144.2	1074.3	996.0	924.1	876.3
40°	2010.3	1874.2	1620.9	1398.9	1254.6	1155.2	1089.8	1032.7	957.1	889.7	838.4
42.5°	1900.9	1818.4	1579.9	1343.5	1187.9	1092.1	1036.9	983.4	917.0	848.6	800.4
45°	1700.4	1711.4	1495.8	1255.3	1095.5	999.4	947.3	910.2	851.2	794.8	745.4
47.5°	1449.0	1551.0	1397.1	1161.2	998.2	907.9	862.4	830.0	790.2	734.8	689.8
50°	1284.8	1430.4	1318.1	1098.2	937.2	847.3	802.4	776.1	741.5	697.9	654.9
52.5°	1133.4	1289.8	1222.7	1027.8	870.9	788.8	745.0	723.3	695.8	654.8	615.9
55°	924.3	1082.7	1067.3	921.7	771.7	697.9	664.5	640.2	621.5	590.8	560.0
57.5°	747.6	897.9	905.8	803.7	684.2	611.2	582.6	564.2	552.0	528.8	500.3
60°	636.3	774.2	801.2	724.2	621.5	557.4	529.1	514.4	504.8	486.2	464.4
62.5°	543.9	661.3	691.8	636.4	561.5	501.4	479.4	465.1	458.6	442.6	423.4
65°	416.3	513.8	543.3	512.5	473.3	425.3	407.3	395.1	389.4	380.4	366.3
67.5°	313.0	384.1	416.4	394.7	380.6	350.2	338.8	332.2	327.2	320.9	309.2
70°	251.5	304.1	337.4	331.6	320.1	304.1	295.7	291.2	286.1	281.0	270.7
72.5°	202.2	238.4	269.7	272.6	263.2	260.0	252.6	250.7	247.6	241.5	235.8
75°	134.0	159.1	180.9	189.3	193.0	196.2	193.0	192.5	191.8	186.6	183.4
77.5°	87.8	101.3	115.1	129.3	135.3	139.7	140.7	143.1	141.4	138.6	137.1
80°	67.4	70.6	80.2	92.4	102.0	105.8	108.4	109.7	109.1	108.4	105.8
82.5°	48.9	51.6	56.1	64.7	72.8	79.2	80.7	80.4	81.8	82.2	80.2
85°	26.3	27.0	28.2	29.5	34.0	41.1	43.0	44.3	45.5	45.5	41.7
87.5°	11.7	10.7	11.1	10.7	11.7	11.8	14.5	16.6	17.5	15.9	16.3
90°	17.4	14.6	11.9	9.4	7.4	5.2	3.1	0.9	3.1	5.2	7.4
92.5°	33.6	32.0	30.3	28.8	27.4	26.0	24.5	23.1	24.5	26.0	27.4
95°	67.3	65.6	63.9	62.3	60.8	59.3	57.8	56.4	57.8	59.3	60.8
97.5°	108.1	106.9	105.7	104.5	103.4	102.3	101.1	100.1	101.1	102.3	103.4
100°	138.3	137.2	136.1	135.0	133.7	132.4	131.1	129.9	131.1	132.4	133.7
102.5°	171.2	169.8	168.3	167.3	166.5	165.8	165.0	164.3	165.0	165.8	166.5
105°	221.5	219.6	217.7	216.6	216.1	215.7	215.3	214.9	215.3	215.7	216.1
107.5°	276.7	276.0	275.2	274.7	274.5	274.2	273.9	273.7	273.9	274.2	274.5
110°	313.3	312.9	312.5	312.1	311.6	311.2	310.8	310.4	310.8	311.2	311.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	349.9	349.8	349.7	349.6	349.3	349.0	348.8	348.6	348.8	349.0	349.3
115°	407.6	408.0	408.5	408.4	407.7	407.1	406.4	405.9	406.4	407.1	407.7
117.5°	464.0	464.6	465.1	465.2	464.8	464.4	463.9	463.5	463.9	464.4	464.8
120°	502.5	503.5	504.6	504.5	503.2	502.0	500.7	499.5	500.7	502.0	503.2
122.5°	539.7	540.3	540.7	540.5	539.6	538.8	537.8	536.9	537.8	538.8	539.6
125°	595.8	596.2	596.6	596.5	595.9	595.2	594.6	594.0	594.6	595.2	595.9
127.5°	651.6	652.1	652.5	652.1	650.7	649.4	648.0	646.7	648.0	649.4	650.7
130°	687.9	688.5	689.1	688.6	686.9	685.2	683.5	681.8	683.5	685.2	686.9
132.5°	723.4	723.9	724.3	723.8	722.1	720.3	718.6	716.9	718.6	720.3	722.1
135°	775.8	776.0	776.2	775.7	774.4	773.2	771.8	770.6	771.8	773.2	774.4
137.5°	826.4	825.9	825.3	824.5	823.4	822.4	821.3	820.3	821.3	822.4	823.4
140°	860.0	859.7	859.5	858.8	857.8	856.8	855.7	854.6	855.7	856.8	857.8
142.5°	891.6	891.3	890.9	890.2	889.1	888.1	887.0	886.0	887.0	888.1	889.1
145°	938.4	937.7	937.1	936.5	936.1	935.7	935.3	934.8	935.3	935.7	936.1
147.5°	982.6	981.9	981.4	980.7	980.0	979.1	978.4	977.6	978.4	979.1	980.0
150°	1010.4	1009.9	1009.6	1009.1	1008.7	1008.2	1007.9	1007.4	1007.9	1008.2	1008.7
152.5°	1035.2	1034.9	1034.6	1034.3	1033.7	1033.0	1032.5	1031.9	1032.5	1033.0	1033.7
155°	1071.0	1070.7	1070.5	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4	1070.4
157.5°	1102.6	1102.4	1102.2	1102.3	1102.5	1102.8	1103.1	1103.3	1103.1	1102.8	1102.5
160°	1122.0	1122.0	1122.0	1122.2	1122.7	1123.0	1123.5	1123.9	1123.5	1123.0	1122.7
162.5°	1140.0	1139.8	1139.6	1139.9	1140.5	1141.0	1141.7	1142.3	1141.7	1141.0	1140.5
165°	1163.1	1163.1	1163.1	1163.4	1164.0	1164.7	1165.3	1165.9	1165.3	1164.7	1164.0
167.5°	1181.5	1181.3	1181.1	1181.5	1182.3	1183.2	1184.0	1184.9	1184.0	1183.2	1182.3
170°	1191.8	1191.8	1191.8	1192.1	1193.0	1193.8	1194.7	1195.5	1194.7	1193.8	1193.0
172.5°	1200.1	1200.1	1200.1	1200.5	1201.4	1202.2	1203.1	1203.9	1203.1	1202.2	1201.4
175°	1208.9	1208.9	1208.9	1209.4	1210.2	1211.1	1211.9	1212.8	1211.9	1211.1	1210.2
177.5°	1213.3	1213.3	1213.3	1213.6	1214.3	1215.0	1215.7	1216.4	1215.7	1215.0	1214.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1472.7	1466.0	1461.4	1451.1	1444.5	1437.3	1430.1	1434.7	1434.3	1433.7	1433.7
5°	1423.3	1408.5	1395.2	1377.8	1366.9	1353.4	1343.1	1341.9	1344.4	1335.5	1330.3
7.5°	1374.3	1354.2	1335.1	1316.0	1295.7	1279.5	1269.4	1264.6	1258.1	1252.5	1246.8
10°	1339.9	1316.3	1297.6	1273.8	1252.1	1232.8	1220.7	1212.3	1207.8	1203.3	1195.0
12.5°	1304.6	1281.3	1257.6	1230.8	1210.0	1187.7	1178.6	1169.2	1160.6	1155.6	1144.2
15°	1252.7	1222.6	1197.6	1169.3	1146.2	1124.5	1111.6	1093.0	1090.4	1084.0	1072.5
17.5°	1200.8	1168.0	1133.5	1112.7	1086.6	1063.8	1044.3	1038.1	1019.7	1012.9	1002.8
20°	1159.7	1129.5	1103.2	1075.7	1037.8	1016.6	1001.3	993.0	978.2	969.2	962.8
22.5°	1124.3	1093.6	1063.3	1031.0	999.8	976.1	964.9	951.9	943.8	931.2	924.3
25°	1073.7	1040.4	1003.8	969.2	946.8	928.8	910.9	899.3	887.8	881.9	869.1
27.5°	1015.0	980.1	945.9	919.6	892.1	874.4	858.1	847.8	834.0	824.3	817.2
30°	982.7	941.6	912.1	888.3	853.1	836.4	824.3	811.4	801.2	790.9	783.8
32.5°	945.2	907.8	879.8	850.5	823.3	805.1	789.4	778.1	769.3	759.6	752.5
35°	886.5	855.1	826.1	796.6	776.7	758.2	739.6	729.9	721.6	712.7	706.2
37.5°	833.3	804.0	776.6	748.6	723.9	708.8	693.8	686.5	675.1	669.1	662.6
40°	800.5	771.7	742.2	715.2	689.6	678.0	664.5	653.7	643.4	638.9	631.8
42.5°	764.6	735.7	710.9	681.8	660.8	645.2	632.7	620.8	613.1	606.5	602.6
45°	711.3	685.7	661.3	632.4	612.6	599.1	584.9	574.1	567.0	562.5	555.4
47.5°	659.7	634.0	609.3	584.1	564.9	549.4	535.4	527.7	518.4	512.9	508.1
50°	622.2	599.1	572.8	549.7	530.5	515.1	503.5	493.9	485.6	478.5	475.3
52.5°	587.8	563.2	540.5	519.0	498.6	481.2	470.7	460.5	454.3	446.2	442.4
55°	531.1	507.4	488.1	466.9	447.0	432.3	419.5	410.5	404.1	395.1	390.0
57.5°	477.9	456.6	433.6	415.3	394.7	382.3	371.6	359.5	351.7	344.6	339.6
60°	442.0	417.5	397.7	380.4	362.4	346.4	336.8	327.2	318.8	311.7	307.3
62.5°	404.4	383.2	364.3	345.4	329.0	315.1	303.9	295.9	288.5	284.0	279.6
65°	347.0	330.4	311.1	295.7	280.3	270.0	261.1	254.0	248.8	245.6	241.9
67.5°	294.2	278.0	261.2	246.1	235.8	228.0	222.1	216.0	213.5	209.3	206.8
70°	259.8	243.1	228.4	216.8	206.5	200.8	196.9	192.5	189.8	184.7	182.2
72.5°	222.3	210.3	199.6	190.1	181.9	176.6	171.7	166.3	162.1	156.5	153.9
75°	175.1	164.2	155.9	149.5	144.3	137.2	130.2	124.4	122.5	120.6	120.0
77.5°	129.7	122.8	116.8	111.3	104.9	99.8	98.3	97.0	96.6	95.6	95.6
80°	102.0	95.6	91.0	84.6	80.8	80.8	80.8	79.6	80.2	80.2	80.2
82.5°	75.8	69.9	67.5	65.1	64.4	64.9	64.9	65.1	64.8	65.8	65.3
85°	39.1	39.8	41.1	40.4	41.1	41.1	42.3	41.7	42.3	41.1	42.3
87.5°	16.2	18.3	19.3	20.5	21.5	21.5	22.2	22.3	23.1	23.2	23.4
90°	9.4	11.9	14.6	17.4	20.2	22.9	23.8	24.6	25.4	26.3	27.0
92.5°	28.8	30.3	32.0	33.6	35.1	36.7	37.3	38.0	38.7	39.4	39.6
95°	62.3	63.9	65.6	67.3	69.0	70.7	71.5	72.4	73.2	74.1	74.5
97.5°	104.5	105.7	106.9	108.1	109.3	110.6	111.6	112.5	113.5	114.5	114.9
100°	135.0	136.1	137.2	138.3	139.3	140.3	141.0	141.7	142.3	142.9	143.5
102.5°	167.3	168.3	169.8	171.2	172.6	174.0	174.7	175.2	175.9	176.5	176.8
105°	216.6	217.7	219.6	221.5	223.5	225.4	225.4	225.4	225.4	225.4	225.6
107.5°	274.7	275.2	276.0	276.7	277.5	278.2	278.9	279.7	280.3	281.0	281.2
110°	312.1	312.5	312.9	313.3	313.8	314.1	315.0	315.8	316.7	317.5	317.7



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	349.6	349.7	349.8	349.9	350.0	350.1	351.1	352.1	353.1	354.1	354.6
115°	408.4	408.5	408.0	407.6	407.2	406.8	407.0	407.2	407.5	407.6	407.6
117.5°	465.2	465.1	464.6	464.0	463.4	463.0	462.9	462.9	462.8	462.8	462.4
120°	504.5	504.6	503.5	502.5	501.4	500.4	500.1	499.9	499.7	499.5	499.2
122.5°	540.5	540.7	540.3	539.7	539.1	538.6	538.0	537.4	536.9	536.4	535.7
125°	596.5	596.6	596.2	595.8	595.3	594.9	594.1	593.2	592.4	591.5	590.7
127.5°	652.1	652.5	652.1	651.6	651.1	650.6	649.5	648.3	647.1	645.9	644.8
130°	688.6	689.1	688.5	687.9	687.2	686.5	685.7	684.9	684.0	683.2	682.0
132.5°	723.8	724.3	723.9	723.4	722.9	722.5	721.4	720.5	719.4	718.4	717.4
135°	775.7	776.2	776.0	775.8	775.6	775.3	774.5	773.6	772.8	771.9	771.4
137.5°	824.5	825.3	825.9	826.4	827.0	827.6	826.6	825.8	824.8	824.0	823.1
140°	858.8	859.5	859.7	860.0	860.2	860.4	860.2	860.0	859.7	859.5	858.7
142.5°	890.2	890.9	891.3	891.6	892.1	892.5	892.2	892.0	891.8	891.6	890.9
145°	936.5	937.1	937.7	938.4	939.0	939.6	939.4	939.2	939.0	938.8	938.2
147.5°	980.7	981.4	981.9	982.6	983.2	983.7	983.7	983.7	983.7	983.7	983.1
150°	1009.1	1009.6	1009.9	1010.4	1010.8	1011.3	1011.3	1011.3	1011.3	1011.3	1010.6
152.5°	1034.3	1034.6	1034.9	1035.2	1035.5	1035.7	1036.0	1036.3	1036.7	1037.1	1036.7
155°	1070.4	1070.5	1070.7	1071.0	1071.2	1071.4	1072.2	1073.1	1073.9	1074.8	1074.5
157.5°	1102.3	1102.2	1102.4	1102.6	1102.8	1102.9	1103.8	1104.7	1105.6	1106.5	1106.4
160°	1122.2	1122.0	1122.0	1122.0	1122.0	1122.0	1123.0	1124.2	1125.2	1126.2	1126.3
162.5°	1139.9	1139.6	1139.8	1140.0	1140.2	1140.4	1141.4	1142.5	1143.5	1144.6	1144.4
165°	1163.4	1163.1	1163.1	1163.1	1163.1	1163.1	1164.3	1165.6	1166.9	1168.2	1168.1
167.5°	1181.5	1181.1	1181.3	1181.5	1181.7	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0
170°	1192.1	1191.8	1191.8	1191.8	1191.8	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7
172.5°	1200.5	1200.1	1200.1	1200.1	1200.1	1200.1	1201.5	1202.8	1204.1	1205.4	1205.3
175°	1209.4	1208.9	1208.9	1208.9	1208.9	1208.9	1210.2	1211.4	1212.8	1214.0	1213.9
177.5°	1213.6	1213.3	1213.3	1213.3	1213.3	1213.3	1214.3	1215.3	1216.4	1217.4	1217.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1427.6	1427.0	1427.6	1425.5	1427.6	1427.0	1427.6	1433.7	1433.7	1434.3	1434.7
5°	1328.4	1327.8	1325.9	1320.0	1325.9	1327.8	1328.4	1330.3	1335.5	1344.4	1341.9
7.5°	1241.8	1241.0	1235.3	1235.4	1235.3	1241.0	1241.8	1246.8	1252.5	1258.1	1264.6
10°	1190.5	1191.1	1183.5	1178.9	1183.5	1191.1	1190.5	1195.0	1203.3	1207.8	1212.3
12.5°	1140.8	1137.7	1131.6	1126.6	1131.6	1137.7	1140.8	1144.2	1155.6	1160.6	1169.2
15°	1075.1	1068.7	1053.2	1054.5	1053.2	1068.7	1075.1	1072.5	1084.0	1090.4	1093.0
17.5°	997.7	993.0	992.7	983.7	992.7	993.0	997.7	1002.8	1012.9	1019.7	1038.1
20°	952.5	949.3	950.6	941.6	950.6	949.3	952.5	962.8	969.2	978.2	993.0
22.5°	917.1	913.9	908.5	905.7	908.5	913.9	917.1	924.3	931.2	943.8	951.9
25°	865.3	860.2	855.1	858.3	855.1	860.2	865.3	869.1	881.9	887.8	899.3
27.5°	813.5	809.6	804.5	803.8	804.5	809.6	813.5	817.2	824.3	834.0	847.8
30°	780.6	776.7	774.2	771.0	774.2	776.7	780.6	783.8	790.9	801.2	811.4
32.5°	747.2	746.5	741.9	741.2	741.9	746.5	747.2	752.5	759.6	769.3	778.1
35°	703.6	699.8	698.5	699.2	698.5	699.8	703.6	706.2	712.7	721.6	729.9
37.5°	662.2	657.0	654.8	652.4	654.8	657.0	662.2	662.6	669.1	675.1	686.5
40°	632.4	627.4	626.0	624.7	626.0	627.4	632.4	631.8	638.9	643.4	653.7
42.5°	599.1	597.0	596.3	594.0	596.3	597.0	599.1	602.6	606.5	613.1	620.8
45°	553.6	552.9	549.0	550.4	549.0	552.9	553.6	555.4	562.5	567.0	574.1
47.5°	505.6	502.8	500.0	501.8	500.0	502.8	505.6	508.1	512.9	518.4	527.7
50°	472.8	471.5	465.7	466.9	465.7	471.5	472.8	475.3	478.5	485.6	493.9
52.5°	439.9	435.0	432.8	432.1	432.8	435.0	439.9	442.4	446.2	454.3	460.5
55°	385.5	379.8	377.2	375.9	377.2	379.8	385.5	390.0	395.1	404.1	410.5
57.5°	332.2	330.5	328.6	330.0	328.6	330.5	332.2	339.6	344.6	351.7	359.5
60°	300.9	300.9	300.9	300.2	300.9	300.9	300.9	307.3	311.7	318.8	327.2
62.5°	276.7	275.1	274.7	275.6	274.7	275.1	276.7	279.6	284.0	288.5	295.9
65°	239.9	239.2	236.7	236.0	236.7	239.2	239.9	241.9	245.6	248.8	254.0
67.5°	205.1	202.8	202.1	201.1	202.1	202.8	205.1	206.8	209.3	213.5	216.0
70°	179.0	177.7	173.8	174.5	173.8	177.7	179.0	182.2	184.7	189.8	192.5
72.5°	150.7	149.5	148.6	147.8	148.6	149.5	150.7	153.9	156.5	162.1	166.3
75°	119.3	118.7	118.0	120.6	118.0	118.7	119.3	120.0	120.6	122.5	124.4
77.5°	95.6	95.6	96.0	94.9	96.0	95.6	95.6	95.6	95.6	96.6	97.0
80°	80.2	80.2	79.6	79.6	79.6	80.2	80.2	80.2	80.2	80.2	79.6
82.5°	64.3	64.8	65.1	64.2	65.1	64.8	64.3	65.3	65.8	64.8	65.1
85°	42.3	41.7	43.0	42.3	43.0	41.7	42.3	42.3	41.1	42.3	41.7
87.5°	24.5	23.6	23.6	24.2	23.6	23.6	24.5	23.4	23.2	23.1	22.3
90°	27.3	27.8	28.2	28.7	28.2	27.8	27.3	27.0	26.3	25.4	24.6
92.5°	39.3	39.1	38.8	38.5	38.8	39.1	39.3	39.6	39.4	38.7	38.0
95°	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.1	73.2	72.4
97.5°	114.8	114.8	114.7	114.6	114.7	114.8	114.8	114.9	114.5	113.5	112.5
100°	143.8	144.3	144.7	145.2	144.7	144.3	143.8	143.5	142.9	142.3	141.7
102.5°	176.7	176.6	176.5	176.4	176.5	176.6	176.7	176.8	176.5	175.9	175.2
105°	226.0	226.4	226.9	227.2	226.9	226.4	226.0	225.6	225.4	225.4	225.4
107.5°	281.0	280.7	280.4	280.1	280.4	280.7	281.0	281.2	281.0	280.3	279.7
110°	317.4	316.9	316.5	316.0	316.5	316.9	317.4	317.7	317.5	316.7	315.8



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	354.5	354.4	354.4	354.3	354.4	354.4	354.5	354.6	354.1	353.1	352.1
115°	407.5	407.2	407.0	406.8	407.0	407.2	407.5	407.6	407.6	407.5	407.2
117.5°	461.8	461.3	460.6	460.1	460.6	461.3	461.8	462.4	462.8	462.8	462.9
120°	498.8	498.3	497.9	497.5	497.9	498.3	498.8	499.2	499.5	499.7	499.9
122.5°	535.2	534.6	534.0	533.4	534.0	534.6	535.2	535.7	536.4	536.9	537.4
125°	589.8	589.0	588.1	587.3	588.1	589.0	589.8	590.7	591.5	592.4	593.2
127.5°	643.9	642.9	641.9	640.9	641.9	642.9	643.9	644.8	645.9	647.1	648.3
130°	680.5	679.0	677.6	676.1	677.6	679.0	680.5	682.0	683.2	684.0	684.9
132.5°	716.1	715.0	713.9	712.8	713.9	715.0	716.1	717.4	718.4	719.4	720.5
135°	770.9	770.5	770.1	769.7	770.1	770.5	770.9	771.4	771.9	772.8	773.6
137.5°	822.3	821.5	820.7	819.9	820.7	821.5	822.3	823.1	824.0	824.8	825.8
140°	857.1	855.7	854.2	852.7	854.2	855.7	857.1	858.7	859.5	859.7	860.0
142.5°	889.8	888.6	887.5	886.4	887.5	888.6	889.8	890.9	891.6	891.8	892.0
145°	937.4	936.5	935.7	934.8	935.7	936.5	937.4	938.2	938.8	939.0	939.2
147.5°	981.8	980.5	979.3	978.0	979.3	980.5	981.8	983.1	983.7	983.7	983.7
150°	1009.4	1008.0	1006.8	1005.5	1006.8	1008.0	1009.4	1010.6	1011.3	1011.3	1011.3
152.5°	1035.6	1034.4	1033.3	1032.3	1033.3	1034.4	1035.6	1036.7	1037.1	1036.7	1036.3
155°	1073.0	1071.5	1070.1	1068.6	1070.1	1071.5	1073.0	1074.5	1074.8	1073.9	1073.1
157.5°	1105.1	1104.0	1102.8	1101.5	1102.8	1104.0	1105.1	1106.4	1106.5	1105.6	1104.7
160°	1125.5	1124.6	1123.8	1122.9	1123.8	1124.6	1125.5	1126.3	1126.2	1125.2	1124.2
162.5°	1143.1	1141.7	1140.4	1139.0	1140.4	1141.7	1143.1	1144.4	1144.6	1143.5	1142.5
165°	1166.6	1165.1	1163.6	1162.2	1163.6	1165.1	1166.6	1168.1	1168.2	1166.9	1165.6
167.5°	1185.7	1184.4	1183.1	1181.8	1183.1	1184.4	1185.7	1187.0	1187.0	1185.7	1184.4
170°	1196.2	1194.7	1193.2	1191.8	1193.2	1194.7	1196.2	1197.7	1197.7	1196.2	1194.7
172.5°	1203.8	1202.3	1200.8	1199.4	1200.8	1202.3	1203.8	1205.3	1205.4	1204.1	1202.8
175°	1212.4	1210.9	1209.5	1208.0	1209.5	1210.9	1212.4	1213.9	1214.0	1212.8	1211.4
177.5°	1216.1	1214.9	1213.7	1212.6	1213.7	1214.9	1216.1	1217.3	1217.4	1216.4	1215.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1430.1	1437.3	1444.5	1451.1	1461.4	1466.0	1472.7	1475.3	1483.0	1494.3	1503.5
5°	1343.1	1353.4	1366.9	1377.8	1395.2	1408.5	1423.3	1437.5	1454.2	1477.8	1499.0
7.5°	1269.4	1279.5	1295.7	1316.0	1335.1	1354.2	1374.3	1393.5	1417.4	1451.4	1485.2
10°	1220.7	1232.8	1252.1	1273.8	1297.6	1316.3	1339.9	1364.3	1393.8	1432.9	1473.4
12.5°	1178.6	1187.7	1210.0	1230.8	1257.6	1281.3	1304.6	1333.0	1366.6	1408.3	1457.0
15°	1111.6	1124.5	1146.2	1169.3	1197.6	1222.6	1252.7	1287.3	1320.0	1371.4	1430.4
17.5°	1044.3	1063.8	1086.6	1112.7	1133.5	1168.0	1200.8	1236.3	1276.6	1331.0	1395.7
20°	1001.3	1016.6	1037.8	1075.7	1103.2	1129.5	1159.7	1204.0	1241.1	1302.8	1370.1
22.5°	964.9	976.1	999.8	1031.0	1063.3	1093.6	1124.3	1166.5	1212.4	1270.9	1344.0
25°	910.9	928.8	946.8	969.2	1003.8	1040.4	1073.7	1109.7	1158.4	1220.7	1299.6
27.5°	858.1	874.4	892.1	919.6	945.9	980.1	1015.0	1056.2	1108.5	1174.3	1254.3
30°	824.3	836.4	853.1	888.3	912.1	941.6	982.7	1019.3	1068.0	1137.9	1222.6
32.5°	789.4	805.1	823.3	850.5	879.8	907.8	945.2	984.9	1034.6	1103.5	1190.2
35°	739.6	758.2	776.7	796.6	826.1	855.1	886.5	930.1	980.7	1047.4	1132.7
37.5°	693.8	708.8	723.9	748.6	776.6	804.0	833.3	876.3	924.1	996.0	1074.3
40°	664.5	678.0	689.6	715.2	742.2	771.7	800.5	838.4	889.7	957.1	1032.7
42.5°	632.7	645.2	660.8	681.8	710.9	735.7	764.6	800.4	848.6	917.0	983.4
45°	584.9	599.1	612.6	632.4	661.3	685.7	711.3	745.4	794.8	851.2	910.2
47.5°	535.4	549.4	564.9	584.1	609.3	634.0	659.7	689.8	734.8	790.2	830.0
50°	503.5	515.1	530.5	549.7	572.8	599.1	622.2	654.9	697.9	741.5	776.1
52.5°	470.7	481.2	498.6	519.0	540.5	563.2	587.8	615.9	654.8	695.8	723.3
55°	419.5	432.3	447.0	466.9	488.1	507.4	531.1	560.0	590.8	621.5	640.2
57.5°	371.6	382.3	394.7	415.3	433.6	456.6	477.9	500.3	528.8	552.0	564.2
60°	336.8	346.4	362.4	380.4	397.7	417.5	442.0	464.4	486.2	504.8	514.4
62.5°	303.9	315.1	329.0	345.4	364.3	383.2	404.4	423.4	442.6	458.6	465.1
65°	261.1	270.0	280.3	295.7	311.1	330.4	347.0	366.3	380.4	389.4	395.1
67.5°	222.1	228.0	235.8	246.1	261.2	278.0	294.2	309.2	320.9	327.2	332.2
70°	196.9	200.8	206.5	216.8	228.4	243.1	259.8	270.7	281.0	286.1	291.2
72.5°	171.7	176.6	181.9	190.1	199.6	210.3	222.3	235.8	241.5	247.6	250.7
75°	130.2	137.2	144.3	149.5	155.9	164.2	175.1	183.4	186.6	191.8	192.5
77.5°	98.3	99.8	104.9	111.3	116.8	122.8	129.7	137.1	138.6	141.4	143.1
80°	80.8	80.8	80.8	84.6	91.0	95.6	102.0	105.8	108.4	109.1	109.7
82.5°	64.9	64.9	64.4	65.1	67.5	69.9	75.8	80.2	82.2	81.8	80.4
85°	42.3	41.1	41.1	40.4	41.1	39.8	39.1	41.7	45.5	45.5	44.3
87.5°	22.2	21.5	21.5	20.5	19.3	18.3	16.2	16.3	15.9	17.5	16.6
90°	23.8	22.9	20.2	17.4	14.6	11.9	9.4	7.4	5.2	3.1	0.9
92.5°	37.3	36.7	35.1	33.6	32.0	30.3	28.8	27.4	26.0	24.5	23.1
95°	71.5	70.7	69.0	67.3	65.6	63.9	62.3	60.8	59.3	57.8	56.4
97.5°	111.6	110.6	109.3	108.1	106.9	105.7	104.5	103.4	102.3	101.1	100.1
100°	141.0	140.3	139.3	138.3	137.2	136.1	135.0	133.7	132.4	131.1	129.9
102.5°	174.7	174.0	172.6	171.2	169.8	168.3	167.3	166.5	165.8	165.0	164.3
105°	225.4	225.4	223.5	221.5	219.6	217.7	216.6	216.1	215.7	215.3	214.9
107.5°	278.9	278.2	277.5	276.7	276.0	275.2	274.7	274.5	274.2	273.9	273.7
110°	315.0	314.1	313.8	313.3	312.9	312.5	312.1	311.6	311.2	310.8	310.4



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	351.1	350.1	350.0	349.9	349.8	349.7	349.6	349.3	349.0	348.8	348.6
115°	407.0	406.8	407.2	407.6	408.0	408.5	408.4	407.7	407.1	406.4	405.9
117.5°	462.9	463.0	463.4	464.0	464.6	465.1	465.2	464.8	464.4	463.9	463.5
120°	500.1	500.4	501.4	502.5	503.5	504.6	504.5	503.2	502.0	500.7	499.5
122.5°	538.0	538.6	539.1	539.7	540.3	540.7	540.5	539.6	538.8	537.8	536.9
125°	594.1	594.9	595.3	595.8	596.2	596.6	596.5	595.9	595.2	594.6	594.0
127.5°	649.5	650.6	651.1	651.6	652.1	652.5	652.1	650.7	649.4	648.0	646.7
130°	685.7	686.5	687.2	687.9	688.5	689.1	688.6	686.9	685.2	683.5	681.8
132.5°	721.4	722.5	722.9	723.4	723.9	724.3	723.8	722.1	720.3	718.6	716.9
135°	774.5	775.3	775.6	775.8	776.0	776.2	775.7	774.4	773.2	771.8	770.6
137.5°	826.6	827.6	827.0	826.4	825.9	825.3	824.5	823.4	822.4	821.3	820.3
140°	860.2	860.4	860.2	860.0	859.7	859.5	858.8	857.8	856.8	855.7	854.6
142.5°	892.2	892.5	892.1	891.6	891.3	890.9	890.2	889.1	888.1	887.0	886.0
145°	939.4	939.6	939.0	938.4	937.7	937.1	936.5	936.1	935.7	935.3	934.8
147.5°	983.7	983.7	983.2	982.6	981.9	981.4	980.7	980.0	979.1	978.4	977.6
150°	1011.3	1011.3	1010.8	1010.4	1009.9	1009.6	1009.1	1008.7	1008.2	1007.9	1007.4
152.5°	1036.0	1035.7	1035.5	1035.2	1034.9	1034.6	1034.3	1033.7	1033.0	1032.5	1031.9
155°	1072.2	1071.4	1071.2	1071.0	1070.7	1070.5	1070.4	1070.4	1070.4	1070.4	1070.4
157.5°	1103.8	1102.9	1102.8	1102.6	1102.4	1102.2	1102.3	1102.5	1102.8	1103.1	1103.3
160°	1123.0	1122.0	1122.0	1122.0	1122.0	1122.0	1122.2	1122.7	1123.0	1123.5	1123.9
162.5°	1141.4	1140.4	1140.2	1140.0	1139.8	1139.6	1139.9	1140.5	1141.0	1141.7	1142.3
165°	1164.3	1163.1	1163.1	1163.1	1163.1	1163.1	1163.4	1164.0	1164.7	1165.3	1165.9
167.5°	1183.1	1181.8	1181.7	1181.5	1181.3	1181.1	1181.5	1182.3	1183.2	1184.0	1184.9
170°	1193.2	1191.8	1191.8	1191.8	1191.8	1191.8	1192.1	1193.0	1193.8	1194.7	1195.5
172.5°	1201.5	1200.1	1200.1	1200.1	1200.1	1200.1	1200.5	1201.4	1202.2	1203.1	1203.9
175°	1210.2	1208.9	1208.9	1208.9	1208.9	1208.9	1209.4	1210.2	1211.1	1211.9	1212.8
177.5°	1214.3	1213.3	1213.3	1213.3	1213.3	1213.3	1213.6	1214.3	1215.0	1215.7	1216.4
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1506.6	1512.2	1519.4	1530.2	1538.4	1545.6	1547.1	1549.2	1554.3	1563.0	1569.7
5°	1516.4	1531.1	1554.8	1577.9	1603.0	1623.4	1642.7	1656.1	1669.0	1695.9	1717.8
7.5°	1513.3	1546.1	1583.3	1624.8	1666.7	1707.3	1745.1	1778.9	1812.4	1851.7	1896.5
10°	1511.2	1549.7	1599.7	1652.9	1711.4	1768.4	1823.6	1866.6	1916.6	1961.5	2018.5
12.5°	1501.5	1556.9	1616.6	1684.8	1756.5	1822.3	1894.9	1954.3	2011.6	2076.4	2142.8
15°	1488.7	1556.1	1631.8	1722.2	1831.3	1910.8	1985.2	2088.5	2159.1	2229.6	2324.6
17.5°	1465.6	1547.7	1642.3	1759.8	1850.8	1957.7	2069.6	2151.3	2246.3	2345.7	2431.7
20°	1447.1	1542.7	1648.5	1764.0	1880.0	1996.1	2104.5	2202.1	2300.2	2415.0	2485.6
22.5°	1428.6	1523.1	1633.0	1755.8	1880.6	2002.8	2125.5	2240.0	2350.4	2466.3	2556.4
25°	1389.3	1501.6	1620.9	1746.0	1869.2	2003.8	2150.0	2277.7	2414.3	2533.6	2618.9
27.5°	1349.5	1452.5	1571.2	1698.1	1835.0	1994.2	2166.2	2311.3	2448.3	2533.6	2560.5
30°	1313.6	1422.7	1531.7	1660.7	1808.8	1986.5	2169.4	2335.4	2447.7	2484.9	2457.3
32.5°	1277.2	1376.0	1484.0	1616.0	1773.4	1967.6	2173.4	2321.1	2388.7	2360.2	2248.0
35°	1213.0	1302.1	1406.7	1538.8	1719.7	1957.0	2156.5	2256.5	2239.9	2079.5	1867.8
37.5°	1144.2	1216.8	1313.6	1451.8	1664.0	1915.3	2083.6	2098.4	1954.1	1707.9	1463.4
40°	1089.8	1155.2	1254.6	1398.9	1620.9	1874.2	2010.3	1950.6	1726.7	1452.8	1248.9
42.5°	1036.9	1092.1	1187.9	1343.5	1579.9	1818.4	1900.9	1771.0	1512.8	1253.8	1068.3
45°	947.3	999.4	1095.5	1255.3	1495.8	1711.4	1700.4	1474.6	1216.2	1007.7	853.8
47.5°	862.4	907.9	998.2	1161.2	1397.1	1551.0	1449.0	1208.7	989.5	822.2	712.4
50°	802.4	847.3	937.2	1098.2	1318.1	1430.4	1284.8	1053.2	852.4	713.9	626.7
52.5°	745.0	788.8	870.9	1027.8	1222.7	1289.8	1133.4	918.8	751.4	631.8	556.9
55°	664.5	697.9	771.7	921.7	1067.3	1082.7	924.3	744.7	606.8	523.4	472.1
57.5°	582.6	611.2	684.2	803.7	905.8	897.9	747.6	592.3	499.5	437.4	400.3
60°	529.1	557.4	621.5	724.2	801.2	774.2	636.3	511.2	431.7	386.2	356.7
62.5°	479.4	501.4	561.5	636.4	691.8	661.3	543.9	440.5	377.3	338.9	315.6
65°	407.3	425.3	473.3	512.5	543.3	513.8	416.3	344.4	298.9	271.9	255.9
67.5°	338.8	350.2	380.6	394.7	416.4	384.1	313.0	264.9	239.0	216.3	205.1
70°	295.7	304.1	320.1	331.6	337.4	304.1	251.5	216.1	194.4	178.3	171.3
72.5°	252.6	260.0	263.2	272.6	269.7	238.4	202.2	174.1	158.4	147.5	138.5
75°	193.0	196.2	193.0	189.3	180.9	159.1	134.0	120.0	108.4	103.3	100.1
77.5°	140.7	139.7	135.3	129.3	115.1	101.3	87.8	83.1	78.1	75.4	74.3
80°	108.4	105.8	102.0	92.4	80.2	70.6	67.4	64.2	62.2	59.0	58.3
82.5°	80.7	79.2	72.8	64.7	56.1	51.6	48.9	47.7	45.8	44.1	44.0
85°	43.0	41.1	34.0	29.5	28.2	27.0	26.3	26.3	23.8	23.1	23.1
87.5°	14.5	11.8	11.7	10.7	11.1	10.7	11.7	11.2	11.2	12.0	11.1
90°	3.1	5.2	7.4	9.4	11.9	14.6	17.4	20.2	22.9	23.8	24.6
92.5°	24.5	26.0	27.4	28.8	30.3	32.0	33.6	35.1	36.7	37.3	38.0
95°	57.8	59.3	60.8	62.3	63.9	65.6	67.3	69.0	70.7	71.5	72.4
97.5°	101.1	102.3	103.4	104.5	105.7	106.9	108.1	109.3	110.6	111.6	112.5
100°	131.1	132.4	133.7	135.0	136.1	137.2	138.3	139.3	140.3	141.0	141.7
102.5°	165.0	165.8	166.5	167.3	168.3	169.8	171.2	172.6	174.0	174.7	175.2
105°	215.3	215.7	216.1	216.6	217.7	219.6	221.5	223.5	225.4	225.4	225.4
107.5°	273.9	274.2	274.5	274.7	275.2	276.0	276.7	277.5	278.2	278.9	279.7
110°	310.8	311.2	311.6	312.1	312.5	312.9	313.3	313.8	314.1	315.0	315.8



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	348.8	349.0	349.3	349.6	349.7	349.8	349.9	350.0	350.1	351.1	352.1
115°	406.4	407.1	407.7	408.4	408.5	408.0	407.6	407.2	406.8	407.0	407.2
117.5°	463.9	464.4	464.8	465.2	465.1	464.6	464.0	463.4	463.0	462.9	462.9
120°	500.7	502.0	503.2	504.5	504.6	503.5	502.5	501.4	500.4	500.1	499.9
122.5°	537.8	538.8	539.6	540.5	540.7	540.3	539.7	539.1	538.6	538.0	537.4
125°	594.6	595.2	595.9	596.5	596.6	596.2	595.8	595.3	594.9	594.1	593.2
127.5°	648.0	649.4	650.7	652.1	652.5	652.1	651.6	651.1	650.6	649.5	648.3
130°	683.5	685.2	686.9	688.6	689.1	688.5	687.9	687.2	686.5	685.7	684.9
132.5°	718.6	720.3	722.1	723.8	724.3	723.9	723.4	722.9	722.5	721.4	720.5
135°	771.8	773.2	774.4	775.7	776.2	776.0	775.8	775.6	775.3	774.5	773.6
137.5°	821.3	822.4	823.4	824.5	825.3	825.9	826.4	827.0	827.6	826.6	825.8
140°	855.7	856.8	857.8	858.8	859.5	859.7	860.0	860.2	860.4	860.2	860.0
142.5°	887.0	888.1	889.1	890.2	890.9	891.3	891.6	892.1	892.5	892.2	892.0
145°	935.3	935.7	936.1	936.5	937.1	937.7	938.4	939.0	939.6	939.4	939.2
147.5°	978.4	979.1	980.0	980.7	981.4	981.9	982.6	983.2	983.7	983.7	983.7
150°	1007.9	1008.2	1008.7	1009.1	1009.6	1009.9	1010.4	1010.8	1011.3	1011.3	1011.3
152.5°	1032.5	1033.0	1033.7	1034.3	1034.6	1034.9	1035.2	1035.5	1035.7	1036.0	1036.3
155°	1070.4	1070.4	1070.4	1070.4	1070.5	1070.7	1071.0	1071.2	1071.4	1072.2	1073.1
157.5°	1103.1	1102.8	1102.5	1102.3	1102.2	1102.4	1102.6	1102.8	1102.9	1103.8	1104.7
160°	1123.5	1123.0	1122.7	1122.2	1122.0	1122.0	1122.0	1122.0	1122.0	1123.0	1124.2
162.5°	1141.7	1141.0	1140.5	1139.9	1139.6	1139.8	1140.0	1140.2	1140.4	1141.4	1142.5
165°	1165.3	1164.7	1164.0	1163.4	1163.1	1163.1	1163.1	1163.1	1163.1	1164.3	1165.6
167.5°	1184.0	1183.2	1182.3	1181.5	1181.1	1181.3	1181.5	1181.7	1181.8	1183.1	1184.4
170°	1194.7	1193.8	1193.0	1192.1	1191.8	1191.8	1191.8	1191.8	1191.8	1193.2	1194.7
172.5°	1203.1	1202.2	1201.4	1200.5	1200.1	1200.1	1200.1	1200.1	1200.1	1201.5	1202.8
175°	1211.9	1211.1	1210.2	1209.4	1208.9	1208.9	1208.9	1208.9	1208.9	1210.2	1211.4
177.5°	1215.7	1215.0	1214.3	1213.6	1213.3	1213.3	1213.3	1213.3	1213.3	1214.3	1215.3
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1580.5	1580.5	1582.5	1590.3	1591.3	1597.9	1595.9
5°	1737.0	1749.2	1753.7	1772.9	1784.4	1789.6	1779.3
7.5°	1928.4	1962.8	1979.1	1999.2	2017.0	2022.4	2008.5
10°	2067.9	2103.8	2134.0	2152.7	2169.9	2181.5	2196.2
12.5°	2202.9	2247.0	2275.7	2302.0	2319.8	2334.4	2336.8
15°	2349.6	2416.3	2466.9	2504.1	2522.7	2532.3	2528.6
17.5°	2497.5	2559.3	2595.4	2633.4	2659.1	2660.4	2661.2
20°	2581.2	2641.4	2683.1	2711.3	2740.2	2738.9	2745.3
22.5°	2637.0	2684.5	2716.5	2737.0	2746.9	2742.0	2743.3
25°	2663.2	2677.3	2671.5	2638.8	2630.5	2600.4	2605.5
27.5°	2528.3	2461.5	2392.6	2303.8	2233.7	2177.7	2180.6
30°	2345.0	2227.0	2092.4	1979.4	1878.1	1849.9	1789.6
32.5°	2089.1	1911.9	1754.2	1649.0	1562.0	1538.4	1485.8
35°	1654.9	1483.0	1320.7	1223.2	1184.7	1130.9	1130.2
37.5°	1286.3	1134.9	1049.1	976.0	937.6	905.0	901.8
40°	1082.1	964.0	899.3	846.7	808.9	784.5	778.7
42.5°	939.4	844.0	783.3	750.7	721.6	709.1	699.6
45°	767.1	703.0	660.6	631.1	617.7	608.0	602.9
47.5°	641.7	598.7	569.9	550.3	539.3	529.1	531.9
50°	573.4	538.2	517.0	498.4	490.0	483.0	483.6
52.5°	518.5	486.8	469.8	456.3	445.9	440.9	438.5
55°	440.0	420.1	402.8	393.2	387.4	380.4	378.4
57.5°	375.3	360.0	345.8	335.0	333.6	326.8	327.6
60°	332.2	319.4	307.9	302.1	297.7	291.8	293.8
62.5°	296.9	286.1	275.6	270.8	266.4	262.1	263.0
65°	243.1	232.8	226.4	223.9	222.0	220.0	218.1
67.5°	193.7	187.5	183.4	178.0	174.0	173.3	171.4
70°	163.0	154.6	147.5	140.4	138.6	137.9	138.6
72.5°	130.6	125.4	123.4	120.0	119.6	117.9	119.0
75°	98.1	96.2	94.9	92.4	92.4	92.4	92.4
77.5°	72.4	71.2	70.4	69.9	69.3	68.3	68.2
80°	56.5	55.8	54.5	54.5	53.9	54.5	53.9
82.5°	42.6	42.5	41.2	41.2	40.5	40.2	40.5
85°	21.8	21.2	22.4	21.2	21.8	20.5	21.8
87.5°	11.2	11.4	11.0	11.1	10.7	11.8	10.8
90°	25.4	26.3	27.0	27.3	27.8	28.2	28.7
92.5°	38.7	39.4	39.6	39.3	39.1	38.8	38.5
95°	73.2	74.1	74.5	74.5	74.5	74.5	74.5
97.5°	113.5	114.5	114.9	114.8	114.8	114.7	114.6
100°	142.3	142.9	143.5	143.8	144.3	144.7	145.2
102.5°	175.9	176.5	176.8	176.7	176.6	176.5	176.4
105°	225.4	225.4	225.6	226.0	226.4	226.9	227.2
107.5°	280.3	281.0	281.2	281.0	280.7	280.4	280.1
110°	316.7	317.5	317.7	317.4	316.9	316.5	316.0



TEST NUMBER: P332459-830

CATALOG NUMBER: S123RDIW-S1000D1030U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	353.1	354.1	354.6	354.5	354.4	354.4	354.3
115°	407.5	407.6	407.6	407.5	407.2	407.0	406.8
117.5°	462.8	462.8	462.4	461.8	461.3	460.6	460.1
120°	499.7	499.5	499.2	498.8	498.3	497.9	497.5
122.5°	536.9	536.4	535.7	535.2	534.6	534.0	533.4
125°	592.4	591.5	590.7	589.8	589.0	588.1	587.3
127.5°	647.1	645.9	644.8	643.9	642.9	641.9	640.9
130°	684.0	683.2	682.0	680.5	679.0	677.6	676.1
132.5°	719.4	718.4	717.4	716.1	715.0	713.9	712.8
135°	772.8	771.9	771.4	770.9	770.5	770.1	769.7
137.5°	824.8	824.0	823.1	822.3	821.5	820.7	819.9
140°	859.7	859.5	858.7	857.1	855.7	854.2	852.7
142.5°	891.8	891.6	890.9	889.8	888.6	887.5	886.4
145°	939.0	938.8	938.2	937.4	936.5	935.7	934.8
147.5°	983.7	983.7	983.1	981.8	980.5	979.3	978.0
150°	1011.3	1011.3	1010.6	1009.4	1008.0	1006.8	1005.5
152.5°	1036.7	1037.1	1036.7	1035.6	1034.4	1033.3	1032.3
155°	1073.9	1074.8	1074.5	1073.0	1071.5	1070.1	1068.6
157.5°	1105.6	1106.5	1106.4	1105.1	1104.0	1102.8	1101.5
160°	1125.2	1126.2	1126.3	1125.5	1124.6	1123.8	1122.9
162.5°	1143.5	1144.6	1144.4	1143.1	1141.7	1140.4	1139.0
165°	1166.9	1168.2	1168.1	1166.6	1165.1	1163.6	1162.2
167.5°	1185.7	1187.0	1187.0	1185.7	1184.4	1183.1	1181.8
170°	1196.2	1197.7	1197.7	1196.2	1194.7	1193.2	1191.8
172.5°	1204.1	1205.4	1205.3	1203.8	1202.3	1200.8	1199.4
175°	1212.8	1214.0	1213.9	1212.4	1210.9	1209.5	1208.0
177.5°	1216.4	1217.4	1217.3	1216.1	1214.9	1213.7	1212.6
180°	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6	1215.6

(END OF REPORT)