

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: P332349-830

Luminaire Tested: **S123RDIP-S1000D1025U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332349-830  
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: S123RDIP-S1000D1025U830-4F0-1E-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: 7052.7 lumens  
Efficiency: N/A  
Efficacy: 116.6 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

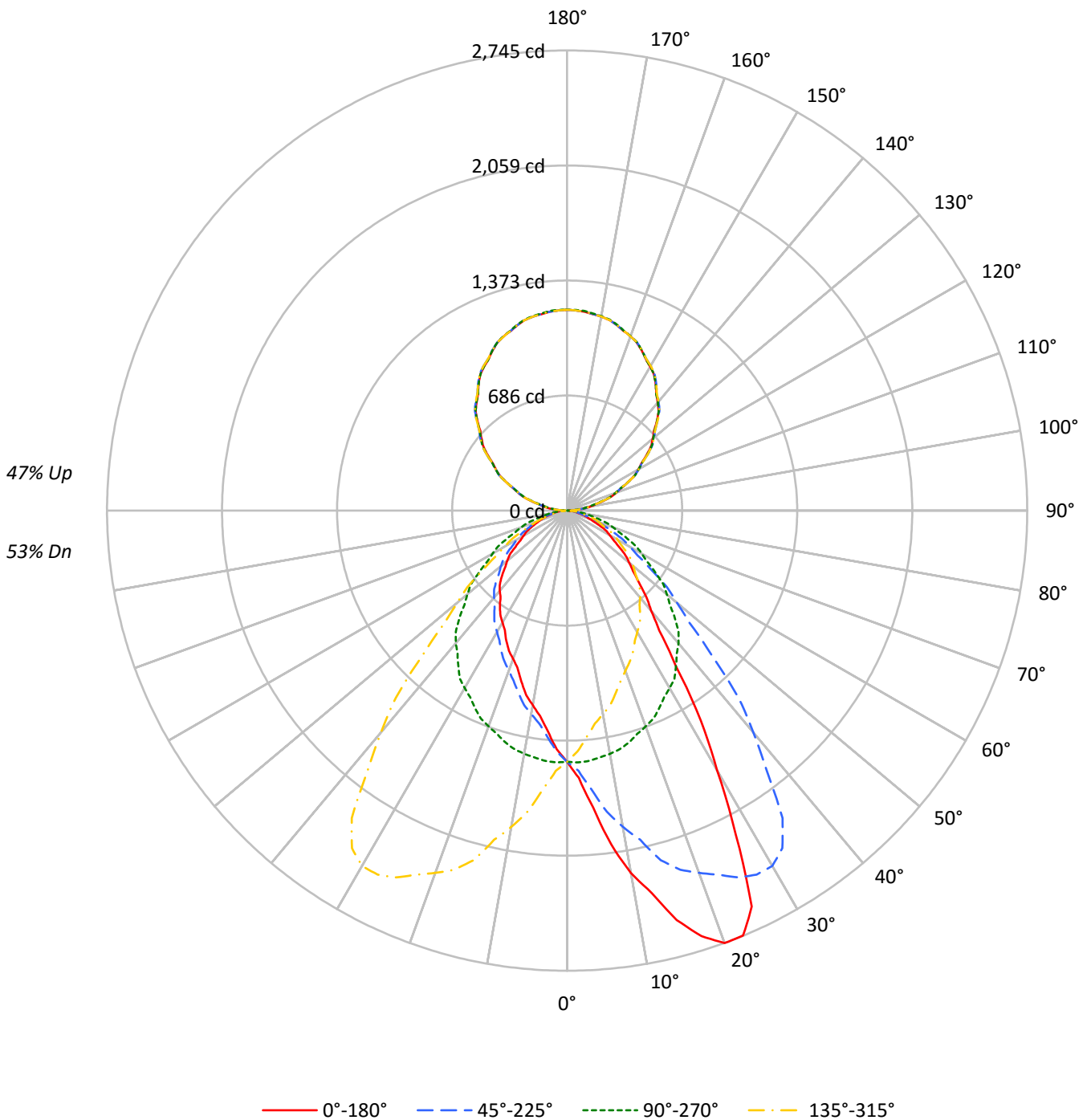
Input Watts (W): 60.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

### Luminous Intensity Polar Plot





TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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	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°	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: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.4	2.1
10°-20°	460.3	6.5
20°-30°	723.2	10.3
30°-40°	754.5	10.7
40°-50°	645.7	9.2
50°-60°	492.2	7.0
60°-70°	315.5	4.5
70°-80°	151.8	2.2
80°-90°	43.7	0.6
90°-100°	78.0	1.1
100°-110°	233.5	3.3
110°-120°	397.2	5.6
120°-130°	522.5	7.4
130°-140°	587.2	8.3
140°-150°	577.2	8.2
150°-160°	486.0	6.9
160°-170°	323.5	4.6
170°-180°	113.3	1.6
0°-30°	1330.9	18.9
0°-40°	2085.5	29.6
0°-60°	3223.3	45.7
0°-90°	3734.3	52.9
90°-120°	708.8	10.0
90°-150°	2395.7	34.0
90°-180°	3318.0	47.0
0°-180°	7052.7	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°	28	1	28	1	28	14
95°	73	56	73	56	73	75
105°	224	212	224	212	224	238
115°	401	400	401	400	401	397
125°	579	585	579	585	579	517
135°	758	759	758	759	758	583
145°	921	921	921	921	921	575
155°	1053	1055	1053	1055	1053	485
165°	1145	1149	1145	1149	1145	323
175°	1190	1195	1190	1195	1190	113
180°	1198	1198	1198	1198	1198	



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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°	10.7	11.7	10.7	11.0	10.9	11.3	11.2	11.0	11.9	11.2	11.1
90°	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2	23.4	22.6	19.9
92.5°	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5	36.8	36.1	34.6
95°	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3	70.5	69.7	68.0
97.5°	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8	109.9	109.0	107.7
100°	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6	138.9	138.3	137.2
102.5°	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7	172.0	171.4	170.0
105°	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1	222.1	222.1	220.2
107.5°	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5	274.8	274.2	273.4
110°	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2	310.4	309.5	309.2



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9	345.9	344.9	344.9
115°	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2	401.1	400.8	401.2
117.5°	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0	456.1	456.1	456.7
120°	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6	492.8	493.0	494.1
122.5°	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5	530.1	530.7	531.2
125°	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5	585.3	586.2	586.5
127.5°	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8	639.9	641.1	641.6
130°	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8	675.6	676.5	677.1
132.5°	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8	710.9	711.8	712.3
135°	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3	763.2	763.9	764.2
137.5°	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6	814.5	815.3	814.8
140°	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3	847.5	847.7	847.5
142.5°	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9	879.1	879.3	878.9
145°	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4	925.6	925.8	925.2
147.5°	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4	996.4	996.4	996.0
152.5°	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2	1020.8	1020.5	1020.2
155°	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3	1056.5	1055.6	1055.5
157.5°	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4	1087.6	1086.7	1086.6
160°	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6	1106.5	1105.5	1105.5
162.5°	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7	1124.6	1123.6	1123.4
165°	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5	1147.2	1145.9	1145.9
167.5°	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4	1164.2
170°	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2	1174.2
172.5°	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1	1183.7	1182.4	1182.4
175°	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6	1192.4	1191.1	1191.1
177.5°	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5	1196.5	1195.4	1195.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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°	11.6	10.6	11.0	10.6	11.7	11.8	14.4	16.6	17.5	15.9	16.3
90°	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9	3.0	5.1	7.3
92.5°	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8	24.2	25.6	27.1
95°	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5	56.9	58.4	59.9
97.5°	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6	99.7	100.8	101.9
100°	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0	129.2	130.4	131.7
102.5°	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8	162.6	163.3	164.1
105°	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7	212.1	212.5	212.9
107.5°	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7	269.9	270.1	270.4
110°	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8	306.2	306.6	307.0





TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4	343.7	343.9	344.1
115°	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8	400.5	401.1	401.7
117.5°	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7	457.1	457.5	458.0
120°	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1	493.3	494.6	495.9
122.5°	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0	529.9	530.7	531.7
125°	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2	585.9	586.4	587.1
127.5°	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2	638.5	639.8	641.1
130°	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8	673.4	675.1	676.7
132.5°	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4	708.0	709.7	711.4
135°	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3	760.5	761.8	763.0
137.5°	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2	809.3	810.3	811.3
140°	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1	843.1	844.1	845.2
142.5°	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9	873.9	875.1	876.1
145°	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1	921.5	921.9	922.4
147.5°	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3	964.0	964.8	965.5
150°	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6	993.1	993.4	993.8
152.5°	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7	1017.3	1017.9	1018.4
155°	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0	1086.8	1086.6	1086.3
160°	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4	1106.9	1106.5	1106.2
162.5°	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5	1124.8	1124.3	1123.7
165°	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8	1148.1	1147.5	1146.9
167.5°	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4	1166.6	1165.7	1164.9
170°	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0	1177.1	1176.3	1175.4
172.5°	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2	1185.4	1184.6	1183.7
175°	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9	1194.0	1193.2	1192.4
177.5°	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4	1197.8	1197.1	1196.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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	20.4	21.4	21.5	22.1	22.3	23.0	23.2	23.3
90°	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2	25.1	25.9	26.6
92.5°	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5	38.2	38.8	39.0
95°	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3	72.1	73.0	73.4
97.5°	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8	111.9	112.8	113.2
100°	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6	140.2	140.8	141.4
102.5°	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7	173.3	173.9	174.2
105°	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1	222.1	222.1	222.3
107.5°	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5	276.2	276.8	277.0
110°	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2	312.1	312.9	313.1



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9	347.9	348.9	349.4
115°	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2	401.4	401.6	401.6
117.5°	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0	456.0	456.0	455.6
120°	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6	492.4	492.2	491.8
122.5°	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5	529.0	528.5	527.9
125°	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5	583.6	582.8	581.9
127.5°	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8	637.6	636.4	635.4
130°	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8	673.9	673.2	671.9
132.5°	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8	708.9	707.8	706.8
135°	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3	761.5	760.6	760.0
137.5°	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6	812.8	811.8	811.0
140°	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3	847.1	846.9	846.0
142.5°	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9	878.7	878.4	877.8
145°	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4	925.2	924.9	924.4
147.5°	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3	969.3	969.3	968.7
150°	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4	996.4	996.4	995.7
152.5°	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2	1021.4	1021.8	1021.4
155°	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3	1058.2	1058.9	1058.7
157.5°	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4	1089.3	1090.2	1090.1
160°	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6	1108.6	1109.7	1109.7
162.5°	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7	1126.7	1127.8	1127.6
165°	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5	1149.7	1150.9	1150.8
167.5°	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6
170°	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1
172.5°	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1	1186.4	1187.6	1187.6
175°	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6	1194.9	1196.2	1196.0
177.5°	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5	1198.4	1199.5	1199.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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°	24.4	23.5	23.6	24.1	23.6	23.5	24.4	23.3	23.2	23.0	22.3
90°	27.0	27.4	27.8	28.2	27.8	27.4	27.0	26.6	25.9	25.1	24.2
92.5°	38.7	38.5	38.3	38.0	38.3	38.5	38.7	39.0	38.8	38.2	37.5
95°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.0	72.1	71.3
97.5°	113.2	113.1	113.0	112.9	113.0	113.1	113.2	113.2	112.8	111.9	110.8
100°	141.8	142.1	142.6	143.0	142.6	142.1	141.8	141.4	140.8	140.2	139.6
102.5°	174.1	174.0	174.0	173.9	174.0	174.0	174.1	174.2	173.9	173.3	172.7
105°	222.6	223.1	223.5	223.9	223.5	223.1	222.6	222.3	222.1	222.1	222.1
107.5°	276.8	276.5	276.3	276.1	276.3	276.5	276.8	277.0	276.8	276.2	275.5
110°	312.6	312.3	311.9	311.4	311.9	312.3	312.6	313.1	312.9	312.1	311.2



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	349.3	349.2	349.1	349.0	349.1	349.2	349.3	349.4	348.9	347.9	346.9
115°	401.4	401.2	401.1	400.8	401.1	401.2	401.4	401.6	401.6	401.4	401.2
117.5°	455.1	454.5	453.9	453.3	453.9	454.5	455.1	455.6	456.0	456.0	456.0
120°	491.4	491.1	490.6	490.2	490.6	491.1	491.4	491.8	492.2	492.4	492.6
122.5°	527.4	526.7	526.1	525.6	526.1	526.7	527.4	527.9	528.5	529.0	529.5
125°	581.2	580.3	579.5	578.6	579.5	580.3	581.2	581.9	582.8	583.6	584.5
127.5°	634.4	633.4	632.4	631.5	632.4	633.4	634.4	635.4	636.4	637.6	638.8
130°	670.5	669.0	667.6	666.1	667.6	669.0	670.5	671.9	673.2	673.9	674.8
132.5°	705.7	704.6	703.4	702.3	703.4	704.6	705.7	706.8	707.8	708.9	709.8
135°	759.6	759.1	758.7	758.4	758.7	759.1	759.6	760.0	760.6	761.5	762.3
137.5°	810.2	809.4	808.6	807.9	808.6	809.4	810.2	811.0	811.8	812.8	813.6
140°	844.6	843.1	841.7	840.2	841.7	843.1	844.6	846.0	846.9	847.1	847.3
142.5°	876.7	875.5	874.4	873.3	874.4	875.5	876.7	877.8	878.4	878.7	878.9
145°	923.6	922.7	921.9	921.1	921.9	922.7	923.6	924.4	924.9	925.2	925.4
147.5°	967.4	966.1	964.9	963.7	964.9	966.1	967.4	968.7	969.3	969.3	969.3
150°	994.5	993.3	991.9	990.7	991.9	993.3	994.5	995.7	996.4	996.4	996.4
152.5°	1020.3	1019.3	1018.1	1017.1	1018.1	1019.3	1020.3	1021.4	1021.8	1021.4	1021.2
155°	1057.2	1055.7	1054.2	1052.8	1054.2	1055.7	1057.2	1058.7	1058.9	1058.2	1057.3
157.5°	1088.9	1087.7	1086.6	1085.3	1086.6	1087.7	1088.9	1090.1	1090.2	1089.3	1088.4
160°	1109.0	1108.1	1107.3	1106.5	1107.3	1108.1	1109.0	1109.7	1109.7	1108.6	1107.6
162.5°	1126.2	1124.9	1123.6	1122.3	1123.6	1124.9	1126.2	1127.6	1127.8	1126.7	1125.7
165°	1149.4	1147.9	1146.5	1145.0	1146.5	1147.9	1149.4	1150.8	1150.9	1149.7	1148.5
167.5°	1168.3	1167.0	1165.7	1164.4	1165.7	1167.0	1168.3	1169.6	1169.6	1168.3	1167.0
170°	1178.6	1177.1	1175.6	1174.2	1175.6	1177.1	1178.6	1180.1	1180.1	1178.6	1177.1
172.5°	1186.1	1184.7	1183.2	1181.7	1183.2	1184.7	1186.1	1187.6	1187.6	1186.4	1185.1
175°	1194.6	1193.1	1191.7	1190.1	1191.7	1193.1	1194.6	1196.0	1196.2	1194.9	1193.6
177.5°	1198.3	1197.0	1195.9	1194.7	1195.9	1197.0	1198.3	1199.4	1199.5	1198.4	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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°	22.1	21.5	21.4	20.4	19.3	18.3	16.2	16.3	15.9	17.5	16.6
90°	23.4	22.6	19.9	17.2	14.4	11.7	9.3	7.3	5.1	3.0	0.9
92.5°	36.8	36.1	34.6	33.0	31.5	30.0	28.5	27.1	25.6	24.2	22.8
95°	70.5	69.7	68.0	66.3	64.6	63.0	61.4	59.9	58.4	56.9	55.5
97.5°	109.9	109.0	107.7	106.5	105.3	104.1	102.9	101.9	100.8	99.7	98.6
100°	138.9	138.3	137.2	136.2	135.2	134.1	133.0	131.7	130.4	129.2	128.0
102.5°	172.0	171.4	170.0	168.6	167.3	165.9	164.9	164.1	163.3	162.6	161.8
105°	222.1	222.1	220.2	218.3	216.4	214.5	213.4	212.9	212.5	212.1	211.7
107.5°	274.8	274.2	273.4	272.7	271.9	271.2	270.7	270.4	270.1	269.9	269.7
110°	310.4	309.5	309.2	308.7	308.3	307.8	307.5	307.0	306.6	306.2	305.8



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	345.9	344.9	344.9	344.8	344.7	344.6	344.4	344.1	343.9	343.7	343.4
115°	401.1	400.8	401.2	401.6	402.1	402.5	402.4	401.7	401.1	400.5	399.8
117.5°	456.1	456.1	456.7	457.2	457.8	458.3	458.4	458.0	457.5	457.1	456.7
120°	492.8	493.0	494.1	495.1	496.2	497.2	497.1	495.9	494.6	493.3	492.1
122.5°	530.1	530.7	531.2	531.7	532.3	532.8	532.6	531.7	530.7	529.9	529.0
125°	585.3	586.2	586.5	587.0	587.4	587.9	587.7	587.1	586.4	585.9	585.2
127.5°	639.9	641.1	641.6	642.1	642.4	642.9	642.5	641.1	639.8	638.5	637.2
130°	675.6	676.5	677.1	677.7	678.3	679.0	678.4	676.7	675.1	673.4	671.8
132.5°	710.9	711.8	712.3	712.8	713.2	713.7	713.1	711.4	709.7	708.0	706.4
135°	763.2	763.9	764.2	764.4	764.6	764.8	764.3	763.0	761.8	760.5	759.3
137.5°	814.5	815.3	814.8	814.3	813.7	813.1	812.4	811.3	810.3	809.3	808.2
140°	847.5	847.7	847.5	847.3	847.1	846.9	846.2	845.2	844.1	843.1	842.1
142.5°	879.1	879.3	878.9	878.5	878.2	877.8	877.1	876.1	875.1	873.9	872.9
145°	925.6	925.8	925.2	924.5	923.9	923.3	922.7	922.4	921.9	921.5	921.1
147.5°	969.3	969.3	968.7	968.1	967.5	967.0	966.3	965.5	964.8	964.0	963.3
150°	996.4	996.4	996.0	995.5	995.1	994.7	994.3	993.8	993.4	993.1	992.6
152.5°	1020.8	1020.5	1020.2	1019.9	1019.7	1019.5	1019.0	1018.4	1017.9	1017.3	1016.7
155°	1056.5	1055.6	1055.5	1055.2	1055.0	1054.8	1054.7	1054.7	1054.7	1054.7	1054.7
157.5°	1087.6	1086.7	1086.6	1086.4	1086.2	1086.0	1086.1	1086.3	1086.6	1086.8	1087.0
160°	1106.5	1105.5	1105.5	1105.5	1105.5	1105.5	1105.7	1106.2	1106.5	1106.9	1107.4
162.5°	1124.6	1123.6	1123.4	1123.2	1123.0	1122.9	1123.1	1123.7	1124.3	1124.8	1125.5
165°	1147.2	1145.9	1145.9	1145.9	1145.9	1145.9	1146.3	1146.9	1147.5	1148.1	1148.8
167.5°	1165.7	1164.4	1164.2	1164.0	1163.9	1163.8	1164.0	1164.9	1165.7	1166.6	1167.4
170°	1175.6	1174.2	1174.2	1174.2	1174.2	1174.2	1174.6	1175.4	1176.3	1177.1	1178.0
172.5°	1183.7	1182.4	1182.4	1182.4	1182.4	1182.4	1182.9	1183.7	1184.6	1185.4	1186.2
175°	1192.4	1191.1	1191.1	1191.1	1191.1	1191.1	1191.6	1192.4	1193.2	1194.0	1194.9
177.5°	1196.5	1195.4	1195.4	1195.4	1195.4	1195.4	1195.8	1196.5	1197.1	1197.8	1198.4
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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°	14.4	11.8	11.7	10.6	11.0	10.6	11.6	11.1	11.2	11.9	11.0
90°	3.0	5.1	7.3	9.3	11.7	14.4	17.2	19.9	22.6	23.4	24.2
92.5°	24.2	25.6	27.1	28.5	30.0	31.5	33.0	34.6	36.1	36.8	37.5
95°	56.9	58.4	59.9	61.4	63.0	64.6	66.3	68.0	69.7	70.5	71.3
97.5°	99.7	100.8	101.9	102.9	104.1	105.3	106.5	107.7	109.0	109.9	110.8
100°	129.2	130.4	131.7	133.0	134.1	135.2	136.2	137.2	138.3	138.9	139.6
102.5°	162.6	163.3	164.1	164.9	165.9	167.3	168.6	170.0	171.4	172.0	172.7
105°	212.1	212.5	212.9	213.4	214.5	216.4	218.3	220.2	222.1	222.1	222.1
107.5°	269.9	270.1	270.4	270.7	271.2	271.9	272.7	273.4	274.2	274.8	275.5
110°	306.2	306.6	307.0	307.5	307.8	308.3	308.7	309.2	309.5	310.4	311.2





TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	343.7	343.9	344.1	344.4	344.6	344.7	344.8	344.9	344.9	345.9	346.9
115°	400.5	401.1	401.7	402.4	402.5	402.1	401.6	401.2	400.8	401.1	401.2
117.5°	457.1	457.5	458.0	458.4	458.3	457.8	457.2	456.7	456.1	456.1	456.0
120°	493.3	494.6	495.9	497.1	497.2	496.2	495.1	494.1	493.0	492.8	492.6
122.5°	529.9	530.7	531.7	532.6	532.8	532.3	531.7	531.2	530.7	530.1	529.5
125°	585.9	586.4	587.1	587.7	587.9	587.4	587.0	586.5	586.2	585.3	584.5
127.5°	638.5	639.8	641.1	642.5	642.9	642.4	642.1	641.6	641.1	639.9	638.8
130°	673.4	675.1	676.7	678.4	679.0	678.3	677.7	677.1	676.5	675.6	674.8
132.5°	708.0	709.7	711.4	713.1	713.7	713.2	712.8	712.3	711.8	710.9	709.8
135°	760.5	761.8	763.0	764.3	764.8	764.6	764.4	764.2	763.9	763.2	762.3
137.5°	809.3	810.3	811.3	812.4	813.1	813.7	814.3	814.8	815.3	814.5	813.6
140°	843.1	844.1	845.2	846.2	846.9	847.1	847.3	847.5	847.7	847.5	847.3
142.5°	873.9	875.1	876.1	877.1	877.8	878.2	878.5	878.9	879.3	879.1	878.9
145°	921.5	921.9	922.4	922.7	923.3	923.9	924.5	925.2	925.8	925.6	925.4
147.5°	964.0	964.8	965.5	966.3	967.0	967.5	968.1	968.7	969.3	969.3	969.3
150°	993.1	993.4	993.8	994.3	994.7	995.1	995.5	996.0	996.4	996.4	996.4
152.5°	1017.3	1017.9	1018.4	1019.0	1019.5	1019.7	1019.9	1020.2	1020.5	1020.8	1021.2
155°	1054.7	1054.7	1054.7	1054.7	1054.8	1055.0	1055.2	1055.5	1055.6	1056.5	1057.3
157.5°	1086.8	1086.6	1086.3	1086.1	1086.0	1086.2	1086.4	1086.6	1086.7	1087.6	1088.4
160°	1106.9	1106.5	1106.2	1105.7	1105.5	1105.5	1105.5	1105.5	1105.5	1106.5	1107.6
162.5°	1124.8	1124.3	1123.7	1123.1	1122.9	1123.0	1123.2	1123.4	1123.6	1124.6	1125.7
165°	1148.1	1147.5	1146.9	1146.3	1145.9	1145.9	1145.9	1145.9	1145.9	1147.2	1148.5
167.5°	1166.6	1165.7	1164.9	1164.0	1163.8	1163.9	1164.0	1164.2	1164.4	1165.7	1167.0
170°	1177.1	1176.3	1175.4	1174.6	1174.2	1174.2	1174.2	1174.2	1174.2	1175.6	1177.1
172.5°	1185.4	1184.6	1183.7	1182.9	1182.4	1182.4	1182.4	1182.4	1182.4	1183.7	1185.1
175°	1194.0	1193.2	1192.4	1191.6	1191.1	1191.1	1191.1	1191.1	1191.1	1192.4	1193.6
177.5°	1197.8	1197.1	1196.5	1195.8	1195.4	1195.4	1195.4	1195.4	1195.4	1196.5	1197.5
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-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	11.3	10.9	11.0	10.7	11.7	10.7
90°	25.1	25.9	26.6	27.0	27.4	27.8	28.2
92.5°	38.2	38.8	39.0	38.7	38.5	38.3	38.0
95°	72.1	73.0	73.4	73.4	73.4	73.4	73.4
97.5°	111.9	112.8	113.2	113.2	113.1	113.0	112.9
100°	140.2	140.8	141.4	141.8	142.1	142.6	143.0
102.5°	173.3	173.9	174.2	174.1	174.0	174.0	173.9
105°	222.1	222.1	222.3	222.6	223.1	223.5	223.9
107.5°	276.2	276.8	277.0	276.8	276.5	276.3	276.1
110°	312.1	312.9	313.1	312.6	312.3	311.9	311.4



TEST NUMBER: P332349-830

CATALOG NUMBER: S123RDIP-S1000D1025U830-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	347.9	348.9	349.4	349.3	349.2	349.1	349.0
115°	401.4	401.6	401.6	401.4	401.2	401.1	400.8
117.5°	456.0	456.0	455.6	455.1	454.5	453.9	453.3
120°	492.4	492.2	491.8	491.4	491.1	490.6	490.2
122.5°	529.0	528.5	527.9	527.4	526.7	526.1	525.6
125°	583.6	582.8	581.9	581.2	580.3	579.5	578.6
127.5°	637.6	636.4	635.4	634.4	633.4	632.4	631.5
130°	673.9	673.2	671.9	670.5	669.0	667.6	666.1
132.5°	708.9	707.8	706.8	705.7	704.6	703.4	702.3
135°	761.5	760.6	760.0	759.6	759.1	758.7	758.4
137.5°	812.8	811.8	811.0	810.2	809.4	808.6	807.9
140°	847.1	846.9	846.0	844.6	843.1	841.7	840.2
142.5°	878.7	878.4	877.8	876.7	875.5	874.4	873.3
145°	925.2	924.9	924.4	923.6	922.7	921.9	921.1
147.5°	969.3	969.3	968.7	967.4	966.1	964.9	963.7
150°	996.4	996.4	995.7	994.5	993.3	991.9	990.7
152.5°	1021.4	1021.8	1021.4	1020.3	1019.3	1018.1	1017.1
155°	1058.2	1058.9	1058.7	1057.2	1055.7	1054.2	1052.8
157.5°	1089.3	1090.2	1090.1	1088.9	1087.7	1086.6	1085.3
160°	1108.6	1109.7	1109.7	1109.0	1108.1	1107.3	1106.5
162.5°	1126.7	1127.8	1127.6	1126.2	1124.9	1123.6	1122.3
165°	1149.7	1150.9	1150.8	1149.4	1147.9	1146.5	1145.0
167.5°	1168.3	1169.6	1169.6	1168.3	1167.0	1165.7	1164.4
170°	1178.6	1180.1	1180.1	1178.6	1177.1	1175.6	1174.2
172.5°	1186.4	1187.6	1187.6	1186.1	1184.7	1183.2	1181.7
175°	1194.9	1196.2	1196.0	1194.6	1193.1	1191.7	1190.1
177.5°	1198.4	1199.5	1199.4	1198.3	1197.0	1195.9	1194.7
180°	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7	1197.7

(END OF REPORT)