

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: P332072-935

Luminaire Tested: **S123DIP-S1165D1025U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332072-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S1165D1025U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 1165 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1025 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7746.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 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

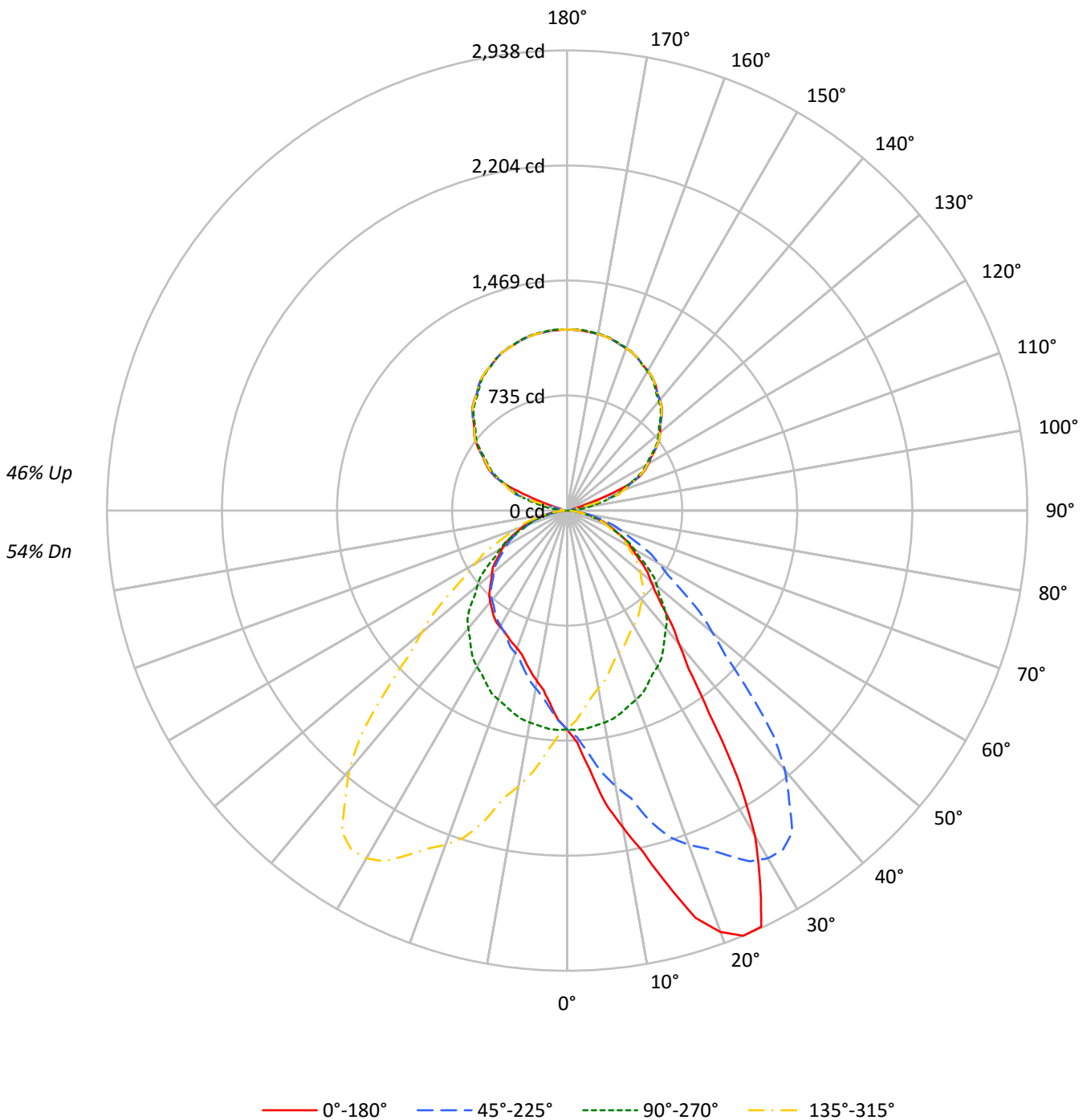
Input Watts (W): 66.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**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	86	86	86	72	72	72	60	60	60	54
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	51	46
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44	39
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33	29
5	70	58	50	44	64	54	47	42	47	42	37	41	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	26	29	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	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	15

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

	0°	90°	180°	270°
0°	15033	15033	15033	15033
5°	17928	15098	13380	15098
10°	22440	15021	12085	15021
15°	27524	14900	11251	14900
20°	32787	14712	10711	14712
25°	34815	14481	10592	14481
30°	29840	14315	10648	14315
35°	20752	14076	10759	14076
40°	15632	13797	10725	13797
45°	12979	13381	10589	13381
50°	11627	12532	10493	12532
55°	10869	11618	10363	11618
60°	10196	10663	10256	10663
65°	9584	9722	9928	9722
70°	8988	8645	9454	8645
75°	8052	7569	8667	7569
80°	7048	6205	7469	6205
85°	5521	4508	5014	4508



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.6	1.8
10°-20°	441.2	5.7
20°-30°	740.4	9.6
30°-40°	838.4	10.8
40°-50°	751.8	9.7
50°-60°	606.7	7.8
60°-70°	422.8	5.5
70°-80°	222.2	2.9
80°-90°	57.6	0.7
90°-100°	42.1	0.5
100°-110°	200.4	2.6
110°-120°	481.5	6.2
120°-130°	613.1	7.9
130°-140°	655.1	8.5
140°-150°	612.6	7.9
150°-160°	494.1	6.4
160°-170°	318.9	4.1
170°-180°	109.9	1.4
0°-30°	1319.2	17.0
0°-40°	2157.5	27.9
0°-60°	3516.1	45.4
0°-90°	4218.7	54.5
90°-120°	724.0	9.3
90°-150°	2604.6	33.6
90°-180°	3528.0	45.5
0°-180°	7746.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1397	1397	1397	1397	1397	
5°	1659	1397	1238	1397	1659	172
15°	2470	1337	1010	1337	2470	713
25°	2931	1219	892	1219	2931	1286
35°	1579	1071	819	1071	1579	1026
45°	853	879	696	879	853	675
55°	579	619	552	619	579	520
65°	376	382	390	382	376	375
75°	194	182	208	182	194	207
85°	45	36	41	36	45	53
90°	26	1	26	1	26	14
95°	33	52	33	52	33	27
105°	38	256	38	256	38	86
115°	505	480	505	480	505	467
125°	691	677	691	677	691	617
135°	852	843	852	843	852	657
145°	982	973	982	973	982	613
155°	1070	1072	1070	1072	1070	493
165°	1128	1130	1128	1130	1128	318
175°	1152	1157	1152	1157	1152	110
180°	1157	1157	1157	1157	1157	



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1482.2	1481.1	1478.4	1480.6	1476.3	1470.2	1469.7	1464.3	1448.6	1447.5	1443.2
5°	1659.2	1653.8	1653.1	1652.4	1643.0	1630.1	1605.8	1603.7	1571.2	1555.0	1535.4
7.5°	1888.4	1891.3	1881.5	1872.8	1843.8	1824.7	1798.6	1765.2	1725.3	1684.8	1657.9
10°	2053.1	2075.4	2047.6	2028.7	2011.1	1977.9	1939.4	1891.3	1843.2	1787.1	1744.5
12.5°	2229.6	2240.5	2234.9	2217.1	2189.7	2139.2	2070.9	2018.0	1973.8	1880.3	1842.5
15°	2469.9	2511.2	2484.8	2423.9	2425.2	2377.1	2287.8	2189.7	2137.6	2055.7	1944.1
17.5°	2725.9	2731.1	2719.8	2669.1	2635.3	2569.2	2486.8	2392.7	2287.2	2188.1	2069.7
20°	2862.3	2858.3	2834.6	2808.2	2750.0	2698.6	2608.6	2503.7	2368.4	2271.0	2141.7
22.5°	2938.2	2931.4	2920.2	2898.0	2849.7	2794.4	2713.6	2599.0	2470.1	2335.9	2186.6
25°	2931.4	2940.1	2941.5	2935.4	2918.5	2885.4	2821.8	2730.4	2601.9	2429.3	2273.6
27.5°	2666.1	2678.6	2714.7	2746.8	2782.7	2819.2	2814.3	2769.0	2673.8	2524.8	2334.5
30°	2400.8	2373.8	2440.8	2525.4	2582.9	2684.3	2741.3	2744.6	2691.1	2563.3	2377.8
32.5°	2032.7	2062.5	2092.1	2196.2	2321.9	2435.9	2549.1	2640.2	2650.6	2565.4	2403.3
35°	1579.3	1616.6	1670.7	1724.8	1860.2	1976.6	2175.5	2348.7	2486.8	2505.1	2405.5
37.5°	1272.7	1291.1	1325.3	1379.6	1468.1	1606.2	1760.1	1979.0	2179.0	2327.8	2334.3
40°	1112.5	1117.8	1156.4	1197.7	1269.5	1383.1	1521.8	1715.4	1954.9	2162.7	2249.3
42.5°	992.3	1004.2	1020.5	1060.2	1117.3	1202.9	1331.9	1491.8	1711.3	1950.4	2119.9
45°	852.6	866.2	876.3	902.7	943.3	1000.8	1090.8	1237.0	1404.1	1651.1	1879.1
47.5°	760.3	761.4	769.0	788.8	816.5	859.6	923.3	1017.2	1170.6	1371.0	1605.1
50°	694.3	705.1	707.8	723.3	745.0	776.8	829.6	909.5	1035.4	1211.3	1426.4
52.5°	647.7	651.0	658.6	669.8	688.7	713.5	759.2	821.7	920.6	1070.5	1268.3
55°	579.2	579.2	586.7	595.5	606.3	628.6	659.1	705.1	780.2	896.6	1060.3
57.5°	515.9	519.3	524.5	527.3	536.5	551.2	576.7	611.6	667.6	757.2	887.4
60°	473.6	479.7	479.1	484.5	492.7	504.1	525.8	554.2	604.2	676.0	785.7
62.5°	436.9	436.4	436.4	442.8	450.9	461.9	476.0	500.6	543.1	606.7	700.1
65°	376.3	374.9	379.6	383.7	386.4	394.5	405.4	427.0	455.4	502.7	575.1
67.5°	322.4	318.5	321.0	322.4	327.0	333.3	343.5	356.9	379.4	417.5	472.1
70°	285.6	282.1	281.5	282.8	286.9	291.6	299.1	311.9	332.9	363.3	403.3
72.5°	247.6	245.4	245.2	248.2	250.1	253.2	258.5	270.3	286.9	309.8	347.0
75°	193.6	193.6	193.6	194.2	196.2	199.0	203.0	209.1	222.0	238.2	263.2
77.5°	145.1	144.9	144.1	144.0	147.0	148.2	149.1	154.8	162.0	173.0	191.2
80°	113.7	110.3	111.7	113.7	115.0	115.7	117.8	119.1	125.2	131.3	144.1
82.5°	84.5	81.6	81.9	85.0	85.2	85.9	88.0	89.9	92.1	97.7	104.6
85°	44.7	44.7	45.4	45.4	46.0	45.4	47.4	48.0	48.0	51.4	55.4
87.5°	21.4	20.2	20.7	21.2	20.6	21.0	21.4	21.8	22.1	22.6	22.6
90°	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1	21.4	20.7	18.2
92.5°	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5	23.2	22.0	20.1
95°	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3	28.0	26.6	24.5
97.5°	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7	29.2	27.6	41.4
100°	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4	29.9	28.3	58.1
102.5°	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1	51.8	56.6	89.1
105°	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6	154.4	188.2	205.4
107.5°	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4	320.2	345.0	342.2
110°	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0	381.3	387.6	385.5



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1	431.0	430.9	428.8
115°	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1	495.2	493.3	491.5
117.5°	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9	555.3	553.8	552.9
120°	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1	594.5	593.0	592.5
122.5°	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3	633.3	632.1	631.5
125°	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3	687.9	687.5	686.7
127.5°	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4	741.8	741.1	740.2
130°	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0	774.2	773.4	772.7
132.5°	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9	805.2	804.4	803.8
135°	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8	852.2	851.7	850.9
137.5°	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6	893.6	892.8	892.3
140°	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1	920.3	919.5	919.0
142.5°	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2	945.6	945.0	944.4
145°	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4	980.9	980.6	980.2
147.5°	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8	1012.4	1012.0	1011.7
150°	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1	1031.7	1031.3	1030.9
152.5°	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1	1048.4	1047.8	1047.6
155°	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7	1071.8	1070.8	1070.7
157.5°	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2	1092.1	1090.9	1091.1
160°	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9	1103.8	1102.6	1102.8
162.5°	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5	1114.2	1112.9	1113.1
165°	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7	1128.2	1126.7	1126.9
167.5°	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6	1137.6
170°	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8	1143.8
172.5°	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1	1149.5	1148.0	1147.8
175°	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0	1154.7	1153.3	1153.1
177.5°	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8	1156.6	1155.4	1155.2
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1439.9	1435.6	1431.3	1423.7	1417.2	1408.0	1405.3	1402.1	1392.3	1383.7	1377.2
5°	1527.9	1511.7	1488.0	1466.4	1448.8	1425.1	1411.5	1397.3	1377.0	1358.7	1343.8
7.5°	1620.0	1588.0	1551.2	1511.4	1474.4	1438.6	1409.8	1384.1	1355.6	1328.7	1307.8
10°	1693.1	1647.0	1595.6	1540.2	1492.7	1446.7	1408.2	1374.3	1337.8	1306.0	1279.6
12.5°	1776.4	1708.2	1637.3	1569.9	1513.9	1450.0	1403.3	1360.3	1318.9	1280.6	1250.9
15°	1875.1	1788.5	1704.5	1611.9	1526.6	1446.7	1391.3	1337.1	1289.1	1249.8	1211.9
17.5°	1965.0	1866.8	1756.3	1643.5	1540.7	1446.0	1368.2	1307.1	1247.0	1198.9	1161.1
20°	2015.9	1904.2	1779.0	1661.9	1548.3	1442.7	1357.5	1284.4	1219.3	1168.6	1126.0
22.5°	2059.7	1929.1	1799.6	1674.4	1547.7	1434.0	1337.4	1262.1	1191.8	1142.1	1096.7
25°	2105.1	1948.9	1818.9	1672.1	1530.7	1412.9	1304.7	1219.3	1149.0	1090.8	1044.1
27.5°	2144.1	1947.5	1793.3	1635.4	1503.8	1385.9	1270.2	1178.8	1104.1	1040.9	993.5
30°	2170.1	1950.2	1766.8	1610.5	1477.9	1356.1	1243.7	1151.7	1073.2	1008.9	964.2
32.5°	2186.3	1948.5	1742.4	1575.9	1436.8	1329.0	1215.0	1119.7	1039.1	975.9	932.9
35°	2195.8	1936.6	1700.5	1504.3	1370.3	1265.4	1170.0	1071.2	986.6	927.7	879.0
37.5°	2176.9	1911.6	1651.7	1435.2	1288.6	1185.3	1105.0	1020.8	939.9	875.1	833.1
40°	2147.1	1895.4	1613.9	1386.6	1232.3	1132.7	1064.5	981.9	902.0	840.4	801.2
42.5°	2090.2	1862.3	1572.2	1332.4	1173.8	1074.3	1011.3	942.4	866.9	809.0	769.8
45°	1951.5	1790.4	1509.7	1251.2	1087.4	984.6	929.1	879.0	810.6	754.5	720.7
47.5°	1759.1	1682.4	1419.3	1165.5	997.3	898.4	840.7	800.4	750.4	705.1	672.6
50°	1625.4	1593.5	1358.1	1107.1	937.2	840.4	785.0	748.4	712.6	667.2	637.4
52.5°	1471.1	1490.7	1286.7	1046.4	876.1	780.9	728.7	699.6	667.1	629.8	603.9
55°	1253.9	1324.9	1163.2	944.6	785.0	694.3	644.9	619.1	600.2	572.5	550.2
57.5°	1050.5	1140.9	1029.8	839.7	695.5	617.3	569.9	541.9	529.7	515.2	497.7
60°	929.8	1019.1	934.5	769.4	635.4	560.9	519.0	495.3	483.1	473.0	458.1
62.5°	822.0	912.4	841.4	697.9	576.4	507.4	470.8	447.7	438.2	432.9	420.3
65°	674.0	751.8	704.4	586.7	492.0	431.0	397.9	381.7	372.8	370.8	362.7
67.5°	548.5	607.8	573.3	486.6	412.1	359.5	331.3	317.5	310.7	310.0	303.9
70°	466.2	521.7	495.3	416.8	352.6	311.3	286.9	274.7	270.7	270.0	266.7
72.5°	402.3	441.1	420.1	354.6	304.9	267.4	249.5	236.9	232.2	233.2	230.9
75°	297.7	326.8	314.7	269.3	229.4	205.0	190.1	182.0	178.0	180.0	177.3
77.5°	214.2	232.6	221.7	190.3	165.7	148.1	137.1	132.1	128.5	128.3	127.1
80°	161.7	172.5	166.4	147.5	127.3	112.4	103.5	100.1	98.2	97.5	96.8
82.5°	115.2	124.4	117.2	104.2	90.4	81.5	76.5	72.0	70.5	70.9	70.3
85°	58.2	61.6	58.9	50.7	45.4	41.2	38.6	36.5	35.2	35.9	34.5
87.5°	23.2	23.2	21.1	18.5	17.0	15.0	14.6	13.2	12.5	12.8	12.7
90°	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9	2.8	4.6	6.6
92.5°	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0	15.4	14.9	14.4
95°	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4	44.6	36.8	28.9
97.5°	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4	101.9	98.3	94.8
100°	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3	149.0	152.9	156.7
102.5°	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6	193.4	196.1	198.9
105°	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1	258.2	260.3	262.4
107.5°	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2	326.9	328.6	330.3
110°	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3	372.8	374.3	375.8





TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3	416.6	418.0	419.4
115°	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4	481.6	482.7	483.9
117.5°	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5	544.9	546.3	547.8
120°	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6	584.4	586.1	587.8
122.5°	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6	624.0	625.3	626.8
125°	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2	678.7	680.3	681.8
127.5°	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1	731.7	733.2	734.7
130°	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2	764.7	766.2	767.8
132.5°	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8	796.3	797.8	799.4
135°	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1	844.2	845.3	846.5
137.5°	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3	885.8	887.3	888.7
140°	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8	913.0	914.1	915.2
142.5°	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3	938.4	939.5	940.7
145°	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8	974.2	975.5	976.9
147.5°	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3	1007.3	1008.1	1009.0
150°	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0	1027.6	1028.1	1028.7
152.5°	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5	1045.9	1046.1	1046.4
155°	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7	1071.3	1070.9	1070.6
157.5°	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9	1091.9	1091.9	1091.8
160°	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3	1104.1	1104.0	1103.8
162.5°	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0	1115.5	1115.0	1114.6
165°	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1	1129.5	1128.9	1128.4
167.5°	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1	1140.4	1139.6	1138.8
170°	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3	1146.5	1145.8	1145.0
172.5°	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4	1150.6	1149.6	1148.7
175°	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8	1155.8	1154.9	1153.9
177.5°	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1	1157.4	1156.6	1155.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1373.4	1369.6	1364.2	1356.1	1349.5	1339.3	1339.3	1340.9	1340.9	1340.4	1339.3
5°	1331.7	1321.5	1309.4	1295.2	1280.3	1265.4	1262.7	1257.2	1253.2	1250.5	1247.2
7.5°	1287.7	1269.7	1252.0	1232.1	1213.9	1198.9	1188.5	1179.8	1174.3	1168.4	1164.0
10°	1257.9	1235.6	1214.6	1193.7	1170.6	1152.4	1140.9	1132.7	1126.7	1121.3	1118.5
12.5°	1222.8	1197.2	1174.1	1154.2	1128.9	1110.2	1099.2	1095.4	1088.2	1076.9	1070.9
15°	1171.3	1147.6	1119.9	1089.4	1077.3	1054.3	1041.4	1035.4	1031.2	1022.4	1019.8
17.5°	1127.3	1096.3	1065.2	1042.5	1019.9	1001.2	994.0	986.4	981.0	973.9	971.7
20°	1092.2	1064.5	1036.0	1011.7	987.9	967.7	961.6	956.1	950.7	947.4	944.6
22.5°	1056.4	1028.7	1005.1	982.4	957.1	943.8	937.2	931.3	927.5	925.1	922.5
25°	1006.3	981.9	955.5	935.1	914.9	906.0	902.0	898.6	896.0	892.5	891.8
27.5°	961.3	934.8	913.3	894.4	879.9	872.5	868.6	866.9	867.5	868.7	869.5
30°	927.7	903.4	885.8	869.5	856.0	849.2	848.5	848.5	851.3	852.0	853.3
32.5°	896.9	876.8	859.3	843.5	833.3	828.6	831.2	831.2	833.4	835.2	837.6
35°	852.0	834.3	820.8	807.3	798.5	800.5	801.8	803.2	806.6	810.6	813.4
37.5°	809.0	793.8	779.6	769.1	765.1	768.7	772.0	774.8	778.7	781.9	784.5
40°	778.2	766.6	753.1	743.6	745.0	747.1	749.8	753.1	756.6	758.5	761.3
42.5°	749.5	737.4	727.2	719.3	721.2	723.8	725.4	727.2	731.1	734.8	736.3
45°	705.8	696.3	686.8	682.1	683.5	684.8	686.1	688.2	691.6	694.3	694.9
47.5°	656.7	650.1	643.7	639.0	641.2	640.7	642.5	646.8	647.8	649.5	653.2
50°	625.3	619.1	611.7	610.4	610.4	610.4	611.1	616.5	616.5	619.1	621.9
52.5°	590.6	586.7	581.9	579.5	578.4	578.4	581.3	584.0	585.0	588.8	591.6
55°	539.3	535.3	531.2	529.2	527.8	529.2	534.6	535.9	539.3	541.3	543.4
57.5°	485.9	482.8	479.5	478.4	478.1	479.9	482.8	486.9	487.8	494.0	497.1
60°	450.6	445.9	443.2	443.2	441.9	448.0	446.6	453.4	454.7	458.8	463.6
62.5°	414.4	408.0	407.0	407.0	408.9	410.6	412.5	415.5	419.0	424.1	427.8
65°	355.9	352.6	357.3	356.6	355.2	359.3	359.3	362.7	366.8	371.5	378.9
67.5°	300.6	298.9	299.2	299.2	301.3	303.6	305.5	308.4	313.3	318.3	323.2
70°	263.2	265.3	261.9	264.6	266.7	267.3	268.6	272.7	278.1	281.5	286.9
72.5°	227.0	226.8	227.2	228.3	230.3	231.5	232.9	237.5	243.5	246.3	250.6
75°	174.6	173.9	175.9	175.9	179.3	180.6	182.0	184.1	189.5	193.6	196.9
77.5°	127.5	128.3	127.9	130.2	129.2	129.5	133.7	135.8	136.3	144.3	146.0
80°	96.1	97.5	98.2	98.8	99.4	98.2	102.9	104.9	104.9	109.6	113.0
82.5°	69.1	69.8	71.6	72.2	72.4	73.8	74.1	75.7	77.3	79.3	83.8
85°	34.5	36.5	37.2	36.5	37.2	35.9	37.9	38.6	39.3	39.3	39.3
87.5°	12.5	13.5	13.4	14.5	14.5	15.5	15.7	14.7	14.9	16.6	14.6
90°	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1	22.9	23.7	24.3
92.5°	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5	25.7	26.9	27.6
95°	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3	30.7	32.0	32.6
97.5°	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7	32.3	33.8	34.6
100°	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4	33.0	34.4	35.3
102.5°	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1	42.4	37.6	35.4
105°	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6	86.8	53.0	36.2
107.5°	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4	270.6	245.8	220.7
110°	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0	368.7	362.4	345.6



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1	431.3	431.4	428.5
115°	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1	499.0	500.9	502.3
117.5°	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9	558.4	559.9	560.8
120°	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1	597.5	599.1	599.9
122.5°	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3	635.4	636.5	637.1
125°	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3	688.6	689.1	689.4
127.5°	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4	743.0	743.6	743.7
130°	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0	775.8	776.5	776.7
132.5°	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9	806.7	807.4	807.5
135°	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8	853.4	853.9	853.9
137.5°	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6	895.5	896.4	896.6
140°	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1	921.9	922.6	922.8
142.5°	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2	946.8	947.4	947.4
145°	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4	981.7	982.1	982.3
147.5°	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8	1013.1	1013.6	1013.3
150°	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1	1032.4	1032.9	1032.7
152.5°	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1	1049.8	1050.5	1050.4
155°	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7	1073.7	1074.6	1074.5
157.5°	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2	1094.3	1095.5	1095.4
160°	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9	1106.0	1107.2	1107.1
162.5°	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5	1116.8	1118.1	1118.2
165°	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7	1131.3	1132.8	1132.9
167.5°	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8
170°	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0
172.5°	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1	1152.5	1154.1	1154.0
175°	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0	1157.4	1158.6	1158.6
177.5°	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8	1159.1	1160.3	1160.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1335.5	1335.0	1338.8	1336.0	1338.8	1335.0	1335.5	1339.3	1340.4	1340.9	1340.9
5°	1243.0	1245.1	1238.3	1238.3	1238.3	1245.1	1243.0	1247.2	1250.5	1253.2	1257.2
7.5°	1160.8	1157.8	1158.0	1154.4	1158.0	1157.8	1160.8	1164.0	1168.4	1174.3	1179.8
10°	1110.4	1106.4	1105.0	1105.7	1105.0	1106.4	1110.4	1118.5	1121.3	1126.7	1132.7
12.5°	1068.8	1067.9	1059.0	1059.1	1059.0	1067.9	1068.8	1070.9	1076.9	1088.2	1095.4
15°	1019.8	1006.9	1005.6	1009.6	1005.6	1006.9	1019.8	1019.8	1022.4	1031.2	1035.4
17.5°	970.6	963.9	964.2	962.3	964.2	963.9	970.6	971.7	973.9	981.0	986.4
20°	944.6	940.6	939.9	935.1	939.9	940.6	944.6	944.6	947.4	950.7	956.1
22.5°	920.8	919.5	919.9	914.6	919.9	919.5	920.8	922.5	925.1	927.5	931.3
25°	891.2	894.6	891.8	891.8	891.8	894.6	891.2	891.8	892.5	896.0	898.6
27.5°	871.2	871.0	869.7	869.7	869.7	871.0	871.2	869.5	868.7	867.5	866.9
30°	856.0	855.3	856.7	856.7	856.7	855.3	856.0	853.3	852.0	851.3	848.5
32.5°	840.9	841.8	842.1	842.6	842.1	841.8	840.9	837.6	835.2	833.4	831.2
35°	817.4	818.1	820.1	818.8	820.1	818.1	817.4	813.4	810.6	806.6	803.2
37.5°	785.7	788.8	788.2	789.3	788.2	788.8	785.7	784.5	781.9	778.7	774.8
40°	761.9	764.0	763.3	763.3	763.3	764.0	761.9	761.3	758.5	756.6	753.1
42.5°	737.6	739.1	737.3	736.2	737.3	739.1	737.6	736.3	734.8	731.1	727.2
45°	697.7	696.3	698.4	695.6	698.4	696.3	697.7	694.9	694.3	691.6	688.2
47.5°	653.0	654.4	654.9	656.9	654.9	654.4	653.0	653.2	649.5	647.8	646.8
50°	623.2	627.2	627.2	626.6	627.2	627.2	623.2	621.9	619.1	616.5	616.5
52.5°	594.0	595.9	598.6	598.5	598.6	595.9	594.0	591.6	588.8	585.0	584.0
55°	548.8	550.2	551.5	552.2	551.5	550.2	548.8	543.4	541.3	539.3	535.9
57.5°	502.0	501.4	504.6	505.6	504.6	501.4	502.0	497.1	494.0	487.8	486.9
60°	468.9	468.9	474.3	476.4	474.3	468.9	468.9	463.6	458.8	454.7	453.4
62.5°	433.8	435.9	441.3	438.5	441.3	435.9	433.8	427.8	424.1	419.0	415.5
65°	382.3	387.7	387.0	389.8	387.0	387.7	382.3	378.9	371.5	366.8	362.7
67.5°	328.6	332.0	336.8	337.3	336.8	332.0	328.6	323.2	318.3	313.3	308.4
70°	292.3	295.7	298.4	300.4	298.4	295.7	292.3	286.9	281.5	278.1	272.7
72.5°	257.2	258.9	265.4	262.5	265.4	258.9	257.2	250.6	246.3	243.5	237.5
75°	201.6	206.4	210.4	208.4	210.4	206.4	201.6	196.9	193.6	189.5	184.1
77.5°	149.1	153.9	155.8	154.0	155.8	153.9	149.1	146.0	144.3	136.3	135.8
80°	117.8	117.1	121.1	120.5	121.1	117.1	117.8	113.0	109.6	104.9	104.9
82.5°	86.4	85.7	87.6	88.0	87.6	85.7	86.4	83.8	79.3	77.3	75.7
85°	41.9	44.0	41.2	40.6	41.2	44.0	41.9	39.3	39.3	39.3	38.6
87.5°	14.6	14.7	14.3	13.8	14.3	14.7	14.6	14.6	16.6	14.9	14.7
90°	24.6	25.1	25.4	25.7	25.4	25.1	24.6	24.3	23.7	22.9	22.1
92.5°	27.8	28.1	28.3	28.5	28.3	28.1	27.8	27.6	26.9	25.7	24.5
95°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.0	30.7	29.3
97.5°	34.9	35.0	35.2	35.4	35.2	35.0	34.9	34.6	33.8	32.3	30.7
100°	35.6	35.7	35.9	36.1	35.9	35.7	35.6	35.3	34.4	33.0	31.4
102.5°	35.7	36.1	36.4	36.8	36.4	36.1	35.7	35.4	37.6	42.4	47.1
105°	36.7	37.0	37.5	37.8	37.5	37.0	36.7	36.2	53.0	86.8	120.6
107.5°	195.2	169.7	144.2	118.7	144.2	169.7	195.2	220.7	245.8	270.6	295.4
110°	318.2	290.9	263.6	236.3	263.6	290.9	318.2	345.6	362.4	368.7	375.0



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	422.8	417.0	411.2	405.4	411.2	417.0	422.8	428.5	431.4	431.3	431.1
115°	503.0	503.8	504.5	505.3	504.5	503.8	503.0	502.3	500.9	499.0	497.1
117.5°	560.9	561.0	561.2	561.4	561.2	561.0	560.9	560.8	559.9	558.4	556.9
120°	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.9	599.1	597.5	596.1
122.5°	637.2	637.4	637.5	637.7	637.5	637.4	637.2	637.1	636.5	635.4	634.3
125°	689.8	690.2	690.6	691.0	690.6	690.2	689.8	689.4	689.1	688.6	688.3
127.5°	743.3	743.0	742.5	742.2	742.5	743.0	743.3	743.7	743.6	743.0	742.4
130°	776.4	775.9	775.6	775.2	775.6	775.9	776.4	776.7	776.5	775.8	775.0
132.5°	807.0	806.5	806.0	805.5	806.0	806.5	807.0	807.5	807.4	806.7	805.9
135°	853.4	852.8	852.2	851.7	852.2	852.8	853.4	853.9	853.9	853.4	852.8
137.5°	896.3	896.0	895.5	895.2	895.5	896.0	896.3	896.6	896.4	895.5	894.6
140°	922.4	922.0	921.7	921.3	921.7	922.0	922.4	922.8	922.6	921.9	921.1
142.5°	946.9	946.4	945.9	945.4	945.9	946.4	946.9	947.4	947.4	946.8	946.2
145°	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.3	982.1	981.7	981.4
147.5°	1012.4	1011.6	1010.6	1009.8	1010.6	1011.6	1012.4	1013.3	1013.6	1013.1	1012.8
150°	1032.2	1031.6	1031.0	1030.4	1031.0	1031.6	1032.2	1032.7	1032.9	1032.4	1032.1
152.5°	1049.6	1048.7	1047.8	1046.9	1047.8	1048.7	1049.6	1050.4	1050.5	1049.8	1049.1
155°	1073.4	1072.3	1071.1	1070.0	1071.1	1072.3	1073.4	1074.5	1074.6	1073.7	1072.7
157.5°	1093.8	1092.4	1090.9	1089.4	1090.9	1092.4	1093.8	1095.4	1095.5	1094.3	1093.2
160°	1105.8	1104.4	1103.1	1101.7	1103.1	1104.4	1105.8	1107.1	1107.2	1106.0	1104.9
162.5°	1117.0	1115.8	1114.7	1113.4	1114.7	1115.8	1117.0	1118.2	1118.1	1116.8	1115.5
165°	1131.5	1130.2	1128.9	1127.6	1128.9	1130.2	1131.5	1132.9	1132.8	1131.3	1129.7
167.5°	1142.3	1140.7	1139.2	1137.6	1139.2	1140.7	1142.3	1143.8	1143.8	1142.3	1140.7
170°	1148.5	1146.9	1145.4	1143.8	1145.4	1146.9	1148.5	1150.0	1150.0	1148.5	1146.9
172.5°	1152.4	1150.6	1149.0	1147.3	1149.0	1150.6	1152.4	1154.0	1154.1	1152.5	1151.1
175°	1157.0	1155.5	1154.0	1152.4	1154.0	1155.5	1157.0	1158.6	1158.6	1157.4	1156.0
177.5°	1158.6	1157.1	1155.5	1154.0	1155.5	1157.1	1158.6	1160.1	1160.3	1159.1	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1339.3	1339.3	1349.5	1356.1	1364.2	1369.6	1373.4	1377.2	1383.7	1392.3	1402.1
5°	1262.7	1265.4	1280.3	1295.2	1309.4	1321.5	1331.7	1343.8	1358.7	1377.0	1397.3
7.5°	1188.5	1198.9	1213.9	1232.1	1252.0	1269.7	1287.7	1307.8	1328.7	1355.6	1384.1
10°	1140.9	1152.4	1170.6	1193.7	1214.6	1235.6	1257.9	1279.6	1306.0	1337.8	1374.3
12.5°	1099.2	1110.2	1128.9	1154.2	1174.1	1197.2	1222.8	1250.9	1280.6	1318.9	1360.3
15°	1041.4	1054.3	1077.3	1089.4	1119.9	1147.6	1171.3	1211.9	1249.8	1289.1	1337.1
17.5°	994.0	1001.2	1019.9	1042.5	1065.2	1096.3	1127.3	1161.1	1198.9	1247.0	1307.1
20°	961.6	967.7	987.9	1011.7	1036.0	1064.5	1092.2	1126.0	1168.6	1219.3	1284.4
22.5°	937.2	943.8	957.1	982.4	1005.1	1028.7	1056.4	1096.7	1142.1	1191.8	1262.1
25°	902.0	906.0	914.9	935.1	955.5	981.9	1006.3	1044.1	1090.8	1149.0	1219.3
27.5°	868.6	872.5	879.9	894.4	913.3	934.8	961.3	993.5	1040.9	1104.1	1178.8
30°	848.5	849.2	856.0	869.5	885.8	903.4	927.7	964.2	1008.9	1073.2	1151.7
32.5°	831.2	828.6	833.3	843.5	859.3	876.8	896.9	932.9	975.9	1039.1	1119.7
35°	801.8	800.5	798.5	807.3	820.8	834.3	852.0	879.0	927.7	986.6	1071.2
37.5°	772.0	768.7	765.1	769.1	779.6	793.8	809.0	833.1	875.1	939.9	1020.8
40°	749.8	747.1	745.0	743.6	753.1	766.6	778.2	801.2	840.4	902.0	981.9
42.5°	725.4	723.8	721.2	719.3	727.2	737.4	749.5	769.8	809.0	866.9	942.4
45°	686.1	684.8	683.5	682.1	686.8	696.3	705.8	720.7	754.5	810.6	879.0
47.5°	642.5	640.7	641.2	639.0	643.7	650.1	656.7	672.6	705.1	750.4	800.4
50°	611.1	610.4	610.4	610.4	611.7	619.1	625.3	637.4	667.2	712.6	748.4
52.5°	581.3	578.4	578.4	579.5	581.9	586.7	590.6	603.9	629.8	667.1	699.6
55°	534.6	529.2	527.8	529.2	531.2	535.3	539.3	550.2	572.5	600.2	619.1
57.5°	482.8	479.9	478.1	478.4	479.5	482.8	485.9	497.7	515.2	529.7	541.9
60°	446.6	448.0	441.9	443.2	443.2	445.9	450.6	458.1	473.0	483.1	495.3
62.5°	412.5	410.6	408.9	407.0	407.0	408.0	414.4	420.3	432.9	438.2	447.7
65°	359.3	359.3	355.2	356.6	357.3	352.6	355.9	362.7	370.8	372.8	381.7
67.5°	305.5	303.6	301.3	299.2	299.2	298.9	300.6	303.9	310.0	310.7	317.5
70°	268.6	267.3	266.7	264.6	261.9	265.3	263.2	266.7	270.0	270.7	274.7
72.5°	232.9	231.5	230.3	228.3	227.2	226.8	227.0	230.9	233.2	232.2	236.9
75°	182.0	180.6	179.3	175.9	175.9	173.9	174.6	177.3	180.0	178.0	182.0
77.5°	133.7	129.5	129.2	130.2	127.9	128.3	127.5	127.1	128.3	128.5	132.1
80°	102.9	98.2	99.4	98.8	98.2	97.5	96.1	96.8	97.5	98.2	100.1
82.5°	74.1	73.8	72.4	72.2	71.6	69.8	69.1	70.3	70.9	70.5	72.0
85°	37.9	35.9	37.2	36.5	37.2	36.5	34.5	34.5	35.9	35.2	36.5
87.5°	15.7	15.5	14.5	14.5	13.4	13.5	12.5	12.7	12.8	12.5	13.2
90°	21.4	20.7	18.2	15.7	13.2	10.7	8.5	6.6	4.6	2.8	0.9
92.5°	23.2	22.0	20.1	18.3	16.4	14.6	13.9	14.4	14.9	15.4	16.0
95°	28.0	26.6	24.5	22.5	20.3	18.3	21.1	28.9	36.8	44.6	52.4
97.5°	29.2	27.6	41.4	55.2	69.0	82.7	91.3	94.8	98.3	101.9	105.4
100°	29.9	28.3	58.1	87.9	117.7	147.5	160.5	156.7	152.9	149.0	145.3
102.5°	51.8	56.6	89.1	121.7	154.2	186.8	201.6	198.9	196.1	193.4	190.6
105°	154.4	188.2	205.4	222.6	239.8	256.9	264.5	262.4	260.3	258.2	256.1
107.5°	320.2	345.0	342.2	339.6	336.8	334.2	331.9	330.3	328.6	326.9	325.2
110°	381.3	387.6	385.5	383.4	381.3	379.2	377.4	375.8	374.3	372.8	371.3



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	431.0	430.9	428.8	426.7	424.6	422.5	420.8	419.4	418.0	416.6	415.3
115°	495.2	493.3	491.5	489.8	488.1	486.5	485.0	483.9	482.7	481.6	480.4
117.5°	555.3	553.8	552.9	552.1	551.1	550.3	549.1	547.8	546.3	544.9	543.5
120°	594.5	593.0	592.5	591.9	591.2	590.7	589.5	587.8	586.1	584.4	582.6
122.5°	633.3	632.1	631.5	630.8	630.0	629.3	628.2	626.8	625.3	624.0	622.6
125°	687.9	687.5	686.7	686.0	685.3	684.5	683.3	681.8	680.3	678.7	677.2
127.5°	741.8	741.1	740.2	739.3	738.4	737.4	736.2	734.7	733.2	731.7	730.1
130°	774.2	773.4	772.7	772.0	771.2	770.4	769.3	767.8	766.2	764.7	763.2
132.5°	805.2	804.4	803.8	803.1	802.5	801.9	800.9	799.4	797.8	796.3	794.8
135°	852.2	851.7	850.9	850.2	849.4	848.6	847.7	846.5	845.3	844.2	843.1
137.5°	893.6	892.8	892.3	891.9	891.5	891.0	890.1	888.7	887.3	885.8	884.3
140°	920.3	919.5	919.0	918.4	917.8	917.3	916.4	915.2	914.1	913.0	911.8
142.5°	945.6	945.0	944.4	943.8	943.3	942.7	941.8	940.7	939.5	938.4	937.3
145°	980.9	980.6	980.2	979.8	979.5	979.0	978.2	976.9	975.5	974.2	972.8
147.5°	1012.4	1012.0	1011.7	1011.2	1010.9	1010.5	1009.9	1009.0	1008.1	1007.3	1006.3
150°	1031.7	1031.3	1030.9	1030.5	1030.1	1029.8	1029.2	1028.7	1028.1	1027.6	1027.0
152.5°	1048.4	1047.8	1047.6	1047.3	1047.1	1046.9	1046.6	1046.4	1046.1	1045.9	1045.5
155°	1071.8	1070.8	1070.7	1070.4	1070.2	1070.1	1070.1	1070.6	1070.9	1071.3	1071.7
157.5°	1092.1	1090.9	1091.1	1091.3	1091.5	1091.7	1091.8	1091.8	1091.9	1091.9	1091.9
160°	1103.8	1102.6	1102.8	1103.0	1103.2	1103.4	1103.5	1103.8	1104.0	1104.1	1104.3
162.5°	1114.2	1112.9	1113.1	1113.3	1113.5	1113.7	1114.0	1114.6	1115.0	1115.5	1116.0
165°	1128.2	1126.7	1126.9	1127.0	1127.2	1127.5	1127.8	1128.4	1128.9	1129.5	1130.1
167.5°	1139.2	1137.6	1137.6	1137.6	1137.6	1137.6	1138.1	1138.8	1139.6	1140.4	1141.1
170°	1145.4	1143.8	1143.8	1143.8	1143.8	1143.8	1144.3	1145.0	1145.8	1146.5	1147.3
172.5°	1149.5	1148.0	1147.8	1147.7	1147.5	1147.4	1147.8	1148.7	1149.6	1150.6	1151.4
175°	1154.7	1153.3	1153.1	1153.0	1152.7	1152.5	1153.0	1153.9	1154.9	1155.8	1156.8
177.5°	1156.6	1155.4	1155.2	1155.1	1154.9	1154.8	1155.1	1155.8	1156.6	1157.4	1158.1
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1405.3	1408.0	1417.2	1423.7	1431.3	1435.6	1439.9	1443.2	1447.5	1448.6	1464.3
5°	1411.5	1425.1	1448.8	1466.4	1488.0	1511.7	1527.9	1535.4	1555.0	1571.2	1603.7
7.5°	1409.8	1438.6	1474.4	1511.4	1551.2	1588.0	1620.0	1657.9	1684.8	1725.3	1765.2
10°	1408.2	1446.7	1492.7	1540.2	1595.6	1647.0	1693.1	1744.5	1787.1	1843.2	1891.3
12.5°	1403.3	1450.0	1513.9	1569.9	1637.3	1708.2	1776.4	1842.5	1880.3	1973.8	2018.0
15°	1391.3	1446.7	1526.6	1611.9	1704.5	1788.5	1875.1	1944.1	2055.7	2137.6	2189.7
17.5°	1368.2	1446.0	1540.7	1643.5	1756.3	1866.8	1965.0	2069.7	2188.1	2287.2	2392.7
20°	1357.5	1442.7	1548.3	1661.9	1779.0	1904.2	2015.9	2141.7	2271.0	2368.4	2503.7
22.5°	1337.4	1434.0	1547.7	1674.4	1799.6	1929.1	2059.7	2186.6	2335.9	2470.1	2599.0
25°	1304.7	1412.9	1530.7	1672.1	1818.9	1948.9	2105.1	2273.6	2429.3	2601.9	2730.4
27.5°	1270.2	1385.9	1503.8	1635.4	1793.3	1947.5	2144.1	2334.5	2524.8	2673.8	2769.0
30°	1243.7	1356.1	1477.9	1610.5	1766.8	1950.2	2170.1	2377.8	2563.3	2691.1	2744.6
32.5°	1215.0	1329.0	1436.8	1575.9	1742.4	1948.5	2186.3	2403.3	2565.4	2650.6	2640.2
35°	1170.0	1265.4	1370.3	1504.3	1700.5	1936.6	2195.8	2405.5	2505.1	2486.8	2348.7
37.5°	1105.0	1185.3	1288.6	1435.2	1651.7	1911.6	2176.9	2334.3	2327.8	2179.0	1979.0
40°	1064.5	1132.7	1232.3	1386.6	1613.9	1895.4	2147.1	2249.3	2162.7	1954.9	1715.4
42.5°	1011.3	1074.3	1173.8	1332.4	1572.2	1862.3	2090.2	2119.9	1950.4	1711.3	1491.8
45°	929.1	984.6	1087.4	1251.2	1509.7	1790.4	1951.5	1879.1	1651.1	1404.1	1237.0
47.5°	840.7	898.4	997.3	1165.5	1419.3	1682.4	1759.1	1605.1	1371.0	1170.6	1017.2
50°	785.0	840.4	937.2	1107.1	1358.1	1593.5	1625.4	1426.4	1211.3	1035.4	909.5
52.5°	728.7	780.9	876.1	1046.4	1286.7	1490.7	1471.1	1268.3	1070.5	920.6	821.7
55°	644.9	694.3	785.0	944.6	1163.2	1324.9	1253.9	1060.3	896.6	780.2	705.1
57.5°	569.9	617.3	695.5	839.7	1029.8	1140.9	1050.5	887.4	757.2	667.6	611.6
60°	519.0	560.9	635.4	769.4	934.5	1019.1	929.8	785.7	676.0	604.2	554.2
62.5°	470.8	507.4	576.4	697.9	841.4	912.4	822.0	700.1	606.7	543.1	500.6
65°	397.9	431.0	492.0	586.7	704.4	751.8	674.0	575.1	502.7	455.4	427.0
67.5°	331.3	359.5	412.1	486.6	573.3	607.8	548.5	472.1	417.5	379.4	356.9
70°	286.9	311.3	352.6	416.8	495.3	521.7	466.2	403.3	363.3	332.9	311.9
72.5°	249.5	267.4	304.9	354.6	420.1	441.1	402.3	347.0	309.8	286.9	270.3
75°	190.1	205.0	229.4	269.3	314.7	326.8	297.7	263.2	238.2	222.0	209.1
77.5°	137.1	148.1	165.7	190.3	221.7	232.6	214.2	191.2	173.0	162.0	154.8
80°	103.5	112.4	127.3	147.5	166.4	172.5	161.7	144.1	131.3	125.2	119.1
82.5°	76.5	81.5	90.4	104.2	117.2	124.4	115.2	104.6	97.7	92.1	89.9
85°	38.6	41.2	45.4	50.7	58.9	61.6	58.2	55.4	51.4	48.0	48.0
87.5°	14.6	15.0	17.0	18.5	21.1	23.2	23.2	22.6	22.6	22.1	21.8
90°	2.8	4.6	6.6	8.5	10.7	13.2	15.7	18.2	20.7	21.4	22.1
92.5°	15.4	14.9	14.4	13.9	14.6	16.4	18.3	20.1	22.0	23.2	24.5
95°	44.6	36.8	28.9	21.1	18.3	20.3	22.5	24.5	26.6	28.0	29.3
97.5°	101.9	98.3	94.8	91.3	82.7	69.0	55.2	41.4	27.6	29.2	30.7
100°	149.0	152.9	156.7	160.5	147.5	117.7	87.9	58.1	28.3	29.9	31.4
102.5°	193.4	196.1	198.9	201.6	186.8	154.2	121.7	89.1	56.6	51.8	47.1
105°	258.2	260.3	262.4	264.5	256.9	239.8	222.6	205.4	188.2	154.4	120.6
107.5°	326.9	328.6	330.3	331.9	334.2	336.8	339.6	342.2	345.0	320.2	295.4
110°	372.8	374.3	375.8	377.4	379.2	381.3	383.4	385.5	387.6	381.3	375.0





TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	416.6	418.0	419.4	420.8	422.5	424.6	426.7	428.8	430.9	431.0	431.1
115°	481.6	482.7	483.9	485.0	486.5	488.1	489.8	491.5	493.3	495.2	497.1
117.5°	544.9	546.3	547.8	549.1	550.3	551.1	552.1	552.9	553.8	555.3	556.9
120°	584.4	586.1	587.8	589.5	590.7	591.2	591.9	592.5	593.0	594.5	596.1
122.5°	624.0	625.3	626.8	628.2	629.3	630.0	630.8	631.5	632.1	633.3	634.3
125°	678.7	680.3	681.8	683.3	684.5	685.3	686.0	686.7	687.5	687.9	688.3
127.5°	731.7	733.2	734.7	736.2	737.4	738.4	739.3	740.2	741.1	741.8	742.4
130°	764.7	766.2	767.8	769.3	770.4	771.2	772.0	772.7	773.4	774.2	775.0
132.5°	796.3	797.8	799.4	800.9	801.9	802.5	803.1	803.8	804.4	805.2	805.9
135°	844.2	845.3	846.5	847.7	848.6	849.4	850.2	850.9	851.7	852.2	852.8
137.5°	885.8	887.3	888.7	890.1	891.0	891.5	891.9	892.3	892.8	893.6	894.6
140°	913.0	914.1	915.2	916.4	917.3	917.8	918.4	919.0	919.5	920.3	921.1
142.5°	938.4	939.5	940.7	941.8	942.7	943.3	943.8	944.4	945.0	945.6	946.2
145°	974.2	975.5	976.9	978.2	979.0	979.5	979.8	980.2	980.6	980.9	981.4
147.5°	1007.3	1008.1	1009.0	1009.9	1010.5	1010.9	1011.2	1011.7	1012.0	1012.4	1012.8
150°	1027.6	1028.1	1028.7	1029.2	1029.8	1030.1	1030.5	1030.9	1031.3	1031.7	1032.1
152.5°	1045.9	1046.1	1046.4	1046.6	1046.9	1047.1	1047.3	1047.6	1047.8	1048.4	1049.1
155°	1071.3	1070.9	1070.6	1070.1	1070.1	1070.2	1070.4	1070.7	1070.8	1071.8	1072.7
157.5°	1091.9	1091.9	1091.8	1091.8	1091.7	1091.5	1091.3	1091.1	1090.9	1092.1	1093.2
160°	1104.1	1104.0	1103.8	1103.5	1103.4	1103.2	1103.0	1102.8	1102.6	1103.8	1104.9
162.5°	1115.5	1115.0	1114.6	1114.0	1113.7	1113.5	1113.3	1113.1	1112.9	1114.2	1115.5
165°	1129.5	1128.9	1128.4	1127.8	1127.5	1127.2	1127.0	1126.9	1126.7	1128.2	1129.7
167.5°	1140.4	1139.6	1138.8	1138.1	1137.6	1137.6	1137.6	1137.6	1137.6	1139.2	1140.7
170°	1146.5	1145.8	1145.0	1144.3	1143.8	1143.8	1143.8	1143.8	1143.8	1145.4	1146.9
172.5°	1150.6	1149.6	1148.7	1147.8	1147.4	1147.5	1147.7	1147.8	1148.0	1149.5	1151.1
175°	1155.8	1154.9	1153.9	1153.0	1152.5	1152.7	1153.0	1153.1	1153.3	1154.7	1156.0
177.5°	1157.4	1156.6	1155.8	1155.1	1154.8	1154.9	1155.1	1155.2	1155.4	1156.6	1157.8
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1469.7	1470.2	1476.3	1480.6	1478.4	1481.1	1482.2
5°	1605.8	1630.1	1643.0	1652.4	1653.1	1653.8	1659.2
7.5°	1798.6	1824.7	1843.8	1872.8	1881.5	1891.3	1888.4
10°	1939.4	1977.9	2011.1	2028.7	2047.6	2075.4	2053.1
12.5°	2070.9	2139.2	2189.7	2217.1	2234.9	2240.5	2229.6
15°	2287.8	2377.1	2425.2	2423.9	2484.8	2511.2	2469.9
17.5°	2486.8	2569.2	2635.3	2669.1	2719.8	2731.1	2725.9
20°	2608.6	2698.6	2750.0	2808.2	2834.6	2858.3	2862.3
22.5°	2713.6	2794.4	2849.7	2898.0	2920.2	2931.4	2938.2
25°	2821.8	2885.4	2918.5	2935.4	2941.5	2940.1	2931.4
27.5°	2814.3	2819.2	2782.7	2746.8	2714.7	2678.6	2666.1
30°	2741.3	2684.3	2582.9	2525.4	2440.8	2373.8	2400.8
32.5°	2549.1	2435.9	2321.9	2196.2	2092.1	2062.5	2032.7
35°	2175.5	1976.6	1860.2	1724.8	1670.7	1616.6	1579.3
37.5°	1760.1	1606.2	1468.1	1379.6	1325.3	1291.1	1272.7
40°	1521.8	1383.1	1269.5	1197.7	1156.4	1117.8	1112.5
42.5°	1331.9	1202.9	1117.3	1060.2	1020.5	1004.2	992.3
45°	1090.8	1000.8	943.3	902.7	876.3	866.2	852.6
47.5°	923.3	859.6	816.5	788.8	769.0	761.4	760.3
50°	829.6	776.8	745.0	723.3	707.8	705.1	694.3
52.5°	759.2	713.5	688.7	669.8	658.6	651.0	647.7
55°	659.1	628.6	606.3	595.5	586.7	579.2	579.2
57.5°	576.7	551.2	536.5	527.3	524.5	519.3	515.9
60°	525.8	504.1	492.7	484.5	479.1	479.7	473.6
62.5°	476.0	461.9	450.9	442.8	436.4	436.4	436.9
65°	405.4	394.5	386.4	383.7	379.6	374.9	376.3
67.5°	343.5	333.3	327.0	322.4	321.0	318.5	322.4
70°	299.1	291.6	286.9	282.8	281.5	282.1	285.6
72.5°	258.5	253.2	250.1	248.2	245.2	245.4	247.6
75°	203.0	199.0	196.2	194.2	193.6	193.6	193.6
77.5°	149.1	148.2	147.0	144.0	144.1	144.9	145.1
80°	117.8	115.7	115.0	113.7	111.7	110.3	113.7
82.5°	88.0	85.9	85.2	85.0	81.9	81.6	84.5
85°	47.4	45.4	46.0	45.4	45.4	44.7	44.7
87.5°	21.4	21.0	20.6	21.2	20.7	20.2	21.4
90°	22.9	23.7	24.3	24.6	25.1	25.4	25.7
92.5°	25.7	26.9	27.6	27.8	28.1	28.3	28.5
95°	30.7	32.0	32.6	32.6	32.6	32.6	32.6
97.5°	32.3	33.8	34.6	34.9	35.0	35.2	35.4
100°	33.0	34.4	35.3	35.6	35.7	35.9	36.1
102.5°	42.4	37.6	35.4	35.7	36.1	36.4	36.8
105°	86.8	53.0	36.2	36.7	37.0	37.5	37.8
107.5°	270.6	245.8	220.7	195.2	169.7	144.2	118.7
110°	368.7	362.4	345.6	318.2	290.9	263.6	236.3



TEST NUMBER: P332072-935

CATALOG NUMBER: S123DIP-S1165D1025U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	431.3	431.4	428.5	422.8	417.0	411.2	405.4
115°	499.0	500.9	502.3	503.0	503.8	504.5	505.3
117.5°	558.4	559.9	560.8	560.9	561.0	561.2	561.4
120°	597.5	599.1	599.9	599.9	599.9	599.9	599.9
122.5°	635.4	636.5	637.1	637.2	637.4	637.5	637.7
125°	688.6	689.1	689.4	689.8	690.2	690.6	691.0
127.5°	743.0	743.6	743.7	743.3	743.0	742.5	742.2
130°	775.8	776.5	776.7	776.4	775.9	775.6	775.2
132.5°	806.7	807.4	807.5	807.0	806.5	806.0	805.5
135°	853.4	853.9	853.9	853.4	852.8	852.2	851.7
137.5°	895.5	896.4	896.6	896.3	896.0	895.5	895.2
140°	921.9	922.6	922.8	922.4	922.0	921.7	921.3
142.5°	946.8	947.4	947.4	946.9	946.4	945.9	945.4
145°	981.7	982.1	982.3	982.3	982.3	982.3	982.3
147.5°	1013.1	1013.6	1013.3	1012.4	1011.6	1010.6	1009.8
150°	1032.4	1032.9	1032.7	1032.2	1031.6	1031.0	1030.4
152.5°	1049.8	1050.5	1050.4	1049.6	1048.7	1047.8	1046.9
155°	1073.7	1074.6	1074.5	1073.4	1072.3	1071.1	1070.0
157.5°	1094.3	1095.5	1095.4	1093.8	1092.4	1090.9	1089.4
160°	1106.0	1107.2	1107.1	1105.8	1104.4	1103.1	1101.7
162.5°	1116.8	1118.1	1118.2	1117.0	1115.8	1114.7	1113.4
165°	1131.3	1132.8	1132.9	1131.5	1130.2	1128.9	1127.6
167.5°	1142.3	1143.8	1143.8	1142.3	1140.7	1139.2	1137.6
170°	1148.5	1150.0	1150.0	1148.5	1146.9	1145.4	1143.8
172.5°	1152.5	1154.1	1154.0	1152.4	1150.6	1149.0	1147.3
175°	1157.4	1158.6	1158.6	1157.0	1155.5	1154.0	1152.4
177.5°	1159.1	1160.3	1160.1	1158.6	1157.1	1155.5	1154.0
180°	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8	1156.8

(END OF REPORT)