

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: P333010-935

Luminaire Tested: **SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333010-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1195 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1205 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

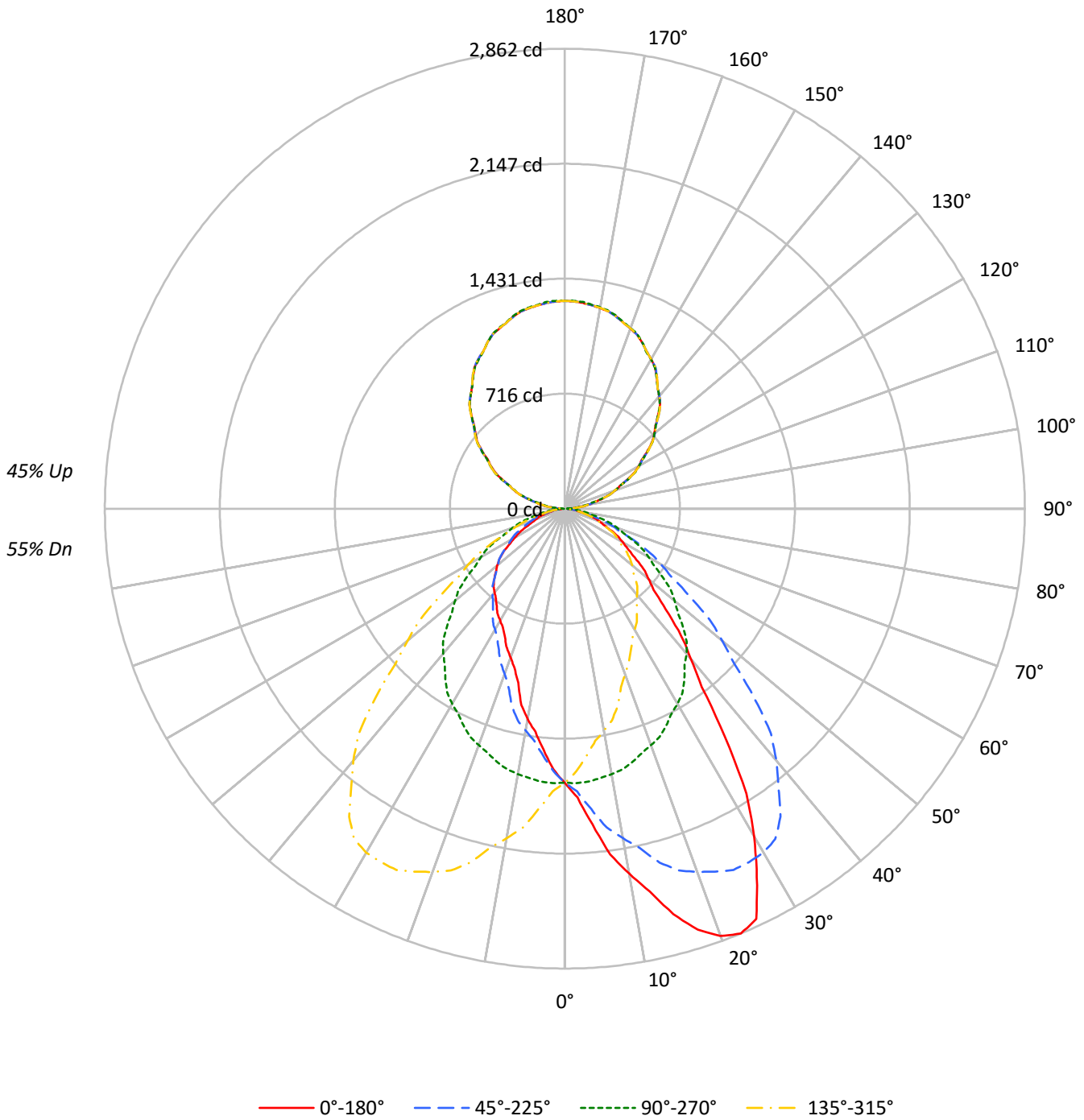
Lumens per Lamp: N/A
Luminaire Lumens: 7905.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 71.7
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: P333010-935
CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			
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	73	73	73	60	60	60	55		
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	54	53	52	47		
2	91	84	78	73	84	78	73	68	67	63	60	57	55	52	48	46	45	40		
3	83	74	67	61	77	69	63	58	60	55	51	51	48	45	43	41	38	35		
4	76	66	58	52	71	61	55	49	53	48	44	46	42	39	39	36	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	39	60	50	43	37	43	38	34	38	33	30	32	29	26	23		
7	60	48	40	35	56	45	38	33	39	34	30	34	30	26	29	26	23	21		
8	56	44	36	31	52	41	34	29	36	30	27	31	27	24	27	24	21	19		
9	52	40	32	27	48	38	31	26	33	28	24	29	25	21	25	22	19	17		
10	49	37	30	25	45	35	28	24	31	25	22	27	22	19	23	20	17	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13774	13774	13774	13774
5°	15977	13816	12211	13816
10°	18901	13755	10899	13755
15°	21833	13628	9365	13628
20°	24308	13454	8469	13454
25°	25093	13281	7863	13281
30°	21967	13073	7498	13073
35°	17100	12764	7276	12764
40°	12823	12410	7158	12410
45°	10123	11843	7096	11843
50°	8547	11189	6889	11189
55°	7450	10469	6521	10469
60°	6704	9723	5772	9723
65°	5910	8915	4963	8915
70°	5323	8080	4480	8080
75°	4460	7162	3815	7162
80°	3770	6104	3580	6104
85°	3186	4780	3186	4780



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	2.1
10°-20°	498.7	6.3
20°-30°	780.0	9.9
30°-40°	867.1	11.0
40°-50°	769.3	9.7
50°-60°	599.5	7.6
60°-70°	392.5	5.0
70°-80°	193.0	2.4
80°-90°	51.5	0.7
90°-100°	85.3	1.1
100°-110°	252.7	3.2
110°-120°	428.9	5.4
120°-130°	565.6	7.2
130°-140°	635.2	8.0
140°-150°	624.2	7.9
150°-160°	525.0	6.6
160°-170°	349.3	4.4
170°-180°	122.3	1.5
0°-30°	1444.0	18.3
0°-40°	2311.0	29.2
0°-60°	3679.8	46.5
0°-90°	4316.7	54.6
90°-120°	767.0	9.7
90°-150°	2591.9	32.8
90°-180°	3588.0	45.4
0°-180°	7905.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1972	1705	1507	1705	1972	199
15°	2612	1631	1120	1631	2612	743
25°	2817	1491	883	1491	2817	1250
35°	1735	1295	738	1295	1735	1088
45°	887	1037	622	1037	887	702
55°	529	744	463	744	529	481
65°	309	467	260	467	309	311
75°	143	230	122	230	143	157
85°	34	52	34	52	34	40
90°	30	3	30	3	30	17
95°	79	60	79	60	79	82
105°	244	233	244	233	244	257
115°	432	436	432	436	432	427
125°	630	635	630	635	630	562
135°	820	819	820	819	820	633
145°	996	995	996	995	996	623
155°	1139	1140	1139	1140	1139	524
165°	1238	1241	1238	1241	1238	349
175°	1285	1291	1285	1291	1285	122
180°	1293	1293	1293	1293	1293	



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1799.7	1804.7	1799.7	1799.1	1793.6	1792.0	1789.8	1782.6	1769.4	1761.8	1763.4
5°	1971.5	1988.7	1979.1	1977.7	1962.6	1947.5	1937.9	1915.9	1892.5	1876.7	1863.6
7.5°	2170.3	2180.2	2174.2	2164.6	2140.1	2126.2	2103.9	2074.9	2033.0	2001.0	1971.7
10°	2305.7	2313.9	2311.2	2293.3	2275.4	2238.9	2218.4	2177.8	2124.9	2082.9	2043.8
12.5°	2438.7	2447.6	2423.4	2424.1	2390.3	2361.6	2328.9	2277.9	2216.7	2162.7	2113.6
15°	2612.3	2601.3	2601.3	2587.5	2549.7	2509.8	2476.1	2422.5	2345.5	2280.9	2212.9
17.5°	2748.1	2751.9	2746.2	2713.9	2684.2	2642.9	2581.2	2518.6	2447.1	2360.3	2290.8
20°	2829.5	2829.5	2823.3	2801.3	2762.8	2718.8	2652.1	2584.0	2493.3	2406.0	2327.6
22.5°	2862.5	2864.6	2857.4	2839.2	2804.6	2761.7	2704.9	2635.8	2542.3	2443.9	2346.9
25°	2817.1	2830.2	2831.5	2826.7	2816.4	2790.2	2741.5	2670.6	2586.8	2480.3	2375.8
27.5°	2586.4	2602.9	2617.4	2641.1	2672.7	2689.2	2691.4	2655.4	2582.2	2479.7	2374.6
30°	2356.5	2370.2	2414.9	2473.4	2518.8	2560.0	2595.7	2605.4	2564.1	2472.0	2361.3
32.5°	2101.4	2120.0	2164.7	2227.6	2303.2	2373.0	2453.3	2494.2	2493.2	2437.9	2335.5
35°	1735.1	1748.9	1790.1	1856.1	1946.8	2050.6	2177.8	2276.7	2344.2	2339.3	2276.7
37.5°	1399.3	1414.9	1456.6	1511.2	1599.2	1727.8	1850.8	1987.2	2111.8	2181.8	2160.9
40°	1216.8	1217.5	1258.0	1314.4	1396.9	1508.9	1643.0	1794.2	1933.0	2046.5	2068.5
42.5°	1072.6	1072.8	1099.6	1160.4	1219.8	1325.3	1453.2	1603.4	1765.9	1896.9	1955.2
45°	886.7	892.9	915.0	951.4	998.2	1087.5	1189.9	1329.5	1511.7	1667.0	1763.9
47.5°	751.0	760.0	774.0	803.7	841.0	900.5	985.2	1110.6	1258.8	1429.7	1567.6
50°	680.5	681.9	699.8	716.3	748.6	796.1	870.3	974.7	1110.9	1275.1	1428.5
52.5°	620.1	619.7	630.5	651.4	677.7	714.6	774.6	869.7	990.4	1137.7	1296.0
55°	529.3	532.8	541.0	557.5	577.5	603.6	651.0	722.5	817.3	943.1	1086.8
57.5°	460.3	462.1	468.6	475.5	493.9	512.8	548.5	598.1	678.1	781.1	915.0
60°	415.2	415.9	417.9	428.3	442.7	460.5	484.7	526.6	593.9	688.1	794.0
62.5°	371.2	372.5	375.7	383.1	394.3	406.7	431.9	465.5	521.3	601.8	697.2
65°	309.4	310.0	314.9	317.6	326.5	337.5	356.1	378.8	417.2	484.7	556.8
67.5°	258.5	258.5	258.7	262.4	268.6	276.0	287.1	305.2	334.2	375.7	439.3
70°	225.5	225.5	226.9	228.9	232.4	238.5	244.7	258.5	279.8	313.5	362.3
72.5°	194.7	195.2	196.6	197.0	198.8	203.9	208.4	217.2	233.1	258.5	297.9
75°	143.0	145.1	148.5	151.3	154.6	153.9	158.8	164.3	169.1	184.3	206.9
77.5°	106.4	105.3	105.7	108.1	108.5	109.2	112.6	116.8	120.5	127.6	135.7
80°	81.1	81.1	83.2	83.9	83.2	83.9	87.3	89.4	90.7	93.5	101.1
82.5°	61.3	62.4	61.7	62.4	62.9	63.5	66.4	66.8	68.2	69.3	72.5
85°	34.4	35.0	35.7	34.4	34.4	34.4	35.7	36.4	37.8	37.1	38.5
87.5°	18.1	17.5	17.9	17.8	18.3	17.6	17.8	18.7	17.3	17.6	17.2
90°	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7	23.3	22.0	20.2
92.5°	44.4	44.2	43.9	43.7	43.3	42.8	42.0	41.2	40.4	39.6	38.4
95°	79.0	79.0	79.0	79.0	79.0	78.7	78.0	77.3	76.7	76.0	74.5
97.5°	123.8	123.8	123.8	123.8	123.8	123.5	122.6	121.8	121.1	120.2	118.4
100°	155.1	155.1	155.1	155.1	155.1	154.8	154.4	153.9	153.5	153.1	151.0
102.5°	190.3	190.1	189.9	189.8	189.5	189.2	188.6	187.9	187.3	186.7	184.9
105°	244.1	243.4	242.7	242.1	241.4	240.7	240.0	239.4	238.8	238.1	237.2
107.5°	296.5	296.5	296.6	296.6	296.7	296.4	295.8	295.2	294.5	293.9	293.8
110°	334.1	333.5	332.8	332.1	331.4	331.3	331.7	332.2	332.7	333.1	333.3



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	372.6	372.4	372.2	372.1	372.0	372.0	372.0	372.1	372.2	372.3	372.7
115°	432.1	432.4	432.6	432.8	433.0	433.3	433.4	433.7	433.9	434.1	434.5
117.5°	489.0	489.4	489.8	490.3	490.8	491.3	492.1	492.8	493.6	494.4	494.6
120°	532.2	531.8	531.2	530.8	530.4	530.7	531.8	533.0	534.1	535.2	535.8
122.5°	568.2	568.9	569.8	570.6	571.4	572.1	572.9	573.7	574.5	575.1	575.5
125°	630.2	630.6	631.1	631.5	632.0	632.4	632.8	633.3	633.8	634.2	634.4
127.5°	687.6	687.9	688.3	688.7	689.1	689.4	689.9	690.3	690.8	691.2	691.6
130°	725.2	726.1	727.0	727.9	728.8	729.4	729.9	730.3	730.8	731.2	731.2
132.5°	765.3	765.6	765.9	766.3	766.6	767.1	767.5	767.9	768.4	768.9	769.0
135°	820.3	820.9	821.6	822.3	822.9	823.5	823.9	824.4	824.8	825.3	825.3
137.5°	878.0	878.0	877.8	877.7	877.5	877.8	878.3	878.9	879.5	880.0	879.7
140°	913.3	913.5	913.7	914.0	914.2	914.4	914.6	914.8	915.1	915.2	915.2
142.5°	948.5	948.6	948.6	948.6	948.6	948.7	948.7	948.8	948.8	948.9	949.1
145°	996.3	997.0	997.6	998.3	998.9	999.4	999.6	999.9	1000.1	1000.3	1000.1
147.5°	1044.7	1044.9	1045.2	1045.4	1045.6	1045.8	1046.0	1046.2	1046.4	1046.5	1046.7
150°	1074.4	1074.5	1074.8	1075.0	1075.2	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
152.5°	1101.6	1102.1	1102.7	1103.3	1103.9	1103.9	1103.4	1102.8	1102.3	1101.7	1101.6
155°	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9	1142.0	1141.2	1140.2	1139.4	1139.5
157.5°	1173.2	1173.9	1174.7	1175.4	1176.2	1176.2	1175.5	1174.9	1174.2	1173.5	1173.6
160°	1192.4	1193.5	1194.6	1195.7	1196.8	1197.0	1196.4	1195.7	1195.1	1194.4	1194.6
162.5°	1212.4	1213.5	1214.6	1215.7	1216.9	1216.8	1215.6	1214.4	1213.1	1211.9	1212.2
165°	1238.4	1239.2	1240.2	1241.0	1241.9	1241.7	1240.4	1239.1	1237.7	1236.4	1236.8
167.5°	1257.0	1258.4	1259.7	1261.1	1262.5	1262.5	1261.2	1259.8	1258.5	1257.1	1257.1
170°	1267.4	1268.9	1270.5	1272.0	1273.6	1273.8	1272.4	1271.1	1269.7	1268.4	1268.2
172.5°	1276.2	1277.7	1279.3	1280.8	1282.5	1282.5	1280.9	1279.4	1277.9	1276.4	1276.3
175°	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6	1290.0	1288.5	1286.9	1285.4	1285.6
177.5°	1290.2	1291.6	1293.0	1294.4	1295.9	1296.0	1294.8	1293.5	1292.3	1291.0	1291.0
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1757.9	1750.2	1746.4	1737.6	1727.1	1721.6	1716.7	1709.5	1700.1	1690.2	1683.1
5°	1847.1	1830.7	1810.0	1785.3	1763.2	1742.0	1723.4	1704.9	1683.5	1661.6	1639.5
7.5°	1938.7	1906.3	1871.2	1830.7	1791.1	1755.3	1722.3	1690.7	1654.9	1622.9	1593.7
10°	2002.5	1958.5	1909.7	1858.1	1806.6	1761.9	1717.9	1678.0	1634.0	1594.8	1561.9
12.5°	2054.2	2002.5	1943.8	1879.6	1817.6	1763.5	1713.0	1661.0	1610.9	1568.5	1524.5
15°	2139.9	2069.2	1990.1	1913.1	1832.7	1759.1	1691.1	1630.6	1573.6	1513.7	1471.8
17.5°	2199.0	2115.0	2018.9	1926.3	1831.3	1744.6	1666.0	1594.1	1528.2	1467.1	1417.2
20°	2234.1	2141.3	2034.8	1929.6	1823.1	1730.3	1645.7	1566.0	1497.9	1431.9	1380.4
22.5°	2253.9	2151.2	2034.8	1924.7	1814.3	1713.7	1620.9	1537.9	1463.8	1397.8	1340.7
25°	2260.3	2150.3	2031.4	1904.9	1783.9	1677.3	1581.1	1491.0	1408.5	1342.6	1282.0
27.5°	2251.5	2121.9	2000.2	1870.4	1745.5	1633.2	1532.1	1437.5	1355.0	1284.1	1222.1
30°	2238.3	2099.4	1968.8	1834.1	1707.5	1599.7	1493.1	1402.4	1316.5	1242.9	1180.3
32.5°	2209.7	2071.9	1931.4	1793.4	1665.3	1554.0	1452.9	1361.7	1277.4	1202.2	1135.7
35°	2153.0	2013.4	1860.9	1719.2	1593.5	1478.0	1383.1	1295.1	1214.7	1134.3	1064.1
37.5°	2078.4	1935.8	1784.0	1628.9	1503.0	1394.0	1306.9	1224.3	1145.8	1072.4	994.7
40°	2008.0	1878.1	1721.3	1567.4	1438.1	1332.9	1252.5	1177.6	1098.5	1025.6	948.0
42.5°	1922.8	1812.1	1653.7	1499.2	1371.6	1270.2	1195.3	1122.1	1050.2	979.5	898.5
45°	1780.5	1696.6	1548.1	1399.6	1271.1	1170.7	1102.0	1037.3	974.0	906.7	830.4
47.5°	1617.4	1560.6	1432.4	1280.4	1161.5	1071.2	1004.8	951.9	898.5	831.1	764.1
50°	1504.1	1467.7	1343.9	1205.1	1091.7	1008.5	940.4	890.9	846.2	781.6	721.8
52.5°	1383.1	1363.7	1259.2	1126.4	1016.8	935.3	877.2	832.6	787.4	733.7	677.8
55°	1198.9	1209.2	1120.5	1005.7	902.6	833.9	780.9	743.8	705.3	660.0	616.6
57.5°	1010.6	1048.2	988.7	887.9	791.3	727.7	687.9	656.6	624.3	586.7	549.7
60°	897.8	929.4	895.7	807.0	722.5	663.4	626.3	602.2	569.9	535.5	507.3
62.5°	787.8	821.7	801.7	730.0	651.5	600.7	567.9	545.5	521.5	491.5	462.3
65°	649.6	671.6	662.0	612.5	556.8	513.5	483.3	466.7	444.8	422.8	396.7
67.5°	497.6	540.0	534.4	508.2	460.0	426.2	406.4	391.8	371.8	355.4	337.7
70°	409.1	448.2	447.5	426.2	400.1	368.4	354.7	342.3	324.4	308.7	294.2
72.5°	334.8	370.7	376.0	359.6	341.8	317.9	304.7	296.2	278.8	267.9	256.2
75°	234.5	260.5	267.4	267.4	259.2	246.8	235.1	229.6	217.2	207.6	200.7
77.5°	153.7	170.2	180.9	183.4	184.7	180.6	170.9	167.0	157.6	154.1	147.5
80°	108.6	119.6	132.0	136.1	139.6	138.2	134.1	131.3	122.3	118.9	116.1
82.5°	75.1	81.1	91.3	100.4	99.4	103.0	99.4	97.2	90.5	89.2	86.4
85°	39.2	39.9	41.2	47.4	50.9	52.3	53.0	51.6	49.5	49.5	44.7
87.5°	16.9	16.0	16.7	16.3	16.4	18.1	19.2	19.3	18.2	17.0	15.8
90°	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0	5.4	7.9	10.3
92.5°	37.1	35.9	34.6	32.6	29.8	27.0	24.2	21.4	24.2	27.0	29.8
95°	72.9	71.4	69.8	68.0	66.0	64.1	62.0	60.0	62.0	64.1	66.0
97.5°	116.6	114.8	113.0	111.2	109.6	108.1	106.4	104.9	106.4	108.1	109.6
100°	149.0	147.1	145.1	143.6	142.7	141.8	140.9	140.1	140.9	141.8	142.7
102.5°	183.0	181.2	179.3	178.3	177.9	177.5	177.2	176.8	177.2	177.5	177.9
105°	236.3	235.4	234.5	233.9	233.8	233.5	233.3	233.1	233.3	233.5	233.8
107.5°	293.6	293.5	293.3	293.2	292.9	292.7	292.4	292.1	292.4	292.7	292.9
110°	333.6	333.8	334.0	333.9	333.5	332.9	332.5	332.1	332.5	332.9	333.5



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	373.2	373.5	373.9	374.1	374.0	373.9	373.8	373.7	373.8	373.9	374.0
115°	435.1	435.5	435.9	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1
117.5°	495.0	495.2	495.6	495.7	495.5	495.3	495.2	495.0	495.2	495.3	495.5
120°	536.5	537.2	537.9	537.7	536.8	536.0	535.0	534.2	535.0	536.0	536.8
122.5°	575.8	576.1	576.4	576.4	576.0	575.7	575.3	575.0	575.3	575.7	576.0
125°	634.6	634.9	635.1	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
127.5°	691.9	692.2	692.7	692.5	691.8	691.1	690.5	689.8	690.5	691.1	691.8
130°	731.2	731.2	731.2	730.9	730.2	729.5	728.9	728.2	728.9	729.5	730.2
132.5°	769.2	769.4	769.6	769.4	768.9	768.4	767.9	767.4	767.9	768.4	768.9
135°	825.3	825.3	825.3	824.6	823.3	821.9	820.6	819.2	820.6	821.9	823.3
137.5°	879.3	879.0	878.7	878.1	877.5	876.9	876.3	875.6	876.3	876.9	877.5
140°	915.2	915.2	915.2	915.1	914.6	914.2	913.7	913.3	913.7	914.2	914.6
142.5°	949.3	949.4	949.6	949.5	949.0	948.6	948.1	947.7	948.1	948.6	949.0
145°	999.9	999.6	999.4	998.8	998.0	997.1	996.2	995.3	996.2	997.1	998.0
147.5°	1046.9	1047.1	1047.2	1046.8	1045.7	1044.7	1043.6	1042.5	1043.6	1044.7	1045.7
150°	1075.3	1075.3	1075.3	1074.9	1074.0	1073.2	1072.2	1071.3	1072.2	1073.2	1074.0
152.5°	1101.4	1101.2	1101.0	1100.7	1100.1	1099.6	1099.1	1098.5	1099.1	1099.6	1100.1
155°	1139.8	1140.1	1140.2	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3	1140.3
157.5°	1173.6	1173.7	1173.7	1174.0	1174.4	1174.7	1175.2	1175.5	1175.2	1174.7	1174.4
160°	1194.8	1195.1	1195.2	1195.5	1195.7	1195.9	1196.2	1196.4	1196.2	1195.9	1195.7
162.5°	1212.5	1212.6	1212.9	1213.2	1213.8	1214.4	1215.0	1215.6	1215.0	1214.4	1213.8
165°	1237.3	1237.7	1238.1	1238.7	1239.4	1240.0	1240.7	1241.4	1240.7	1240.0	1239.4
167.5°	1257.1	1257.1	1257.0	1257.5	1258.4	1259.3	1260.2	1261.2	1260.2	1259.3	1258.4
170°	1267.9	1267.7	1267.5	1267.9	1269.0	1270.1	1271.3	1272.4	1271.3	1270.1	1269.0
172.5°	1276.3	1276.3	1276.2	1276.7	1277.6	1278.5	1279.4	1280.4	1279.4	1278.5	1277.6
175°	1285.8	1286.1	1286.2	1286.9	1288.1	1289.2	1290.3	1291.4	1290.3	1289.2	1288.1
177.5°	1291.0	1291.0	1291.0	1291.4	1292.4	1293.2	1294.1	1295.0	1294.1	1293.2	1292.4
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1675.4	1669.9	1662.8	1654.5	1644.6	1635.8	1631.9	1635.3	1636.9	1632.5	1631.9
5°	1624.4	1607.2	1593.5	1572.9	1556.3	1542.6	1533.0	1528.9	1530.3	1519.2	1516.5
7.5°	1567.1	1546.7	1524.1	1499.7	1476.9	1456.6	1446.0	1440.3	1428.7	1423.7	1415.3
10°	1530.3	1502.7	1480.7	1451.8	1425.7	1401.7	1390.0	1380.4	1368.6	1363.1	1351.5
12.5°	1492.3	1460.3	1436.1	1406.2	1379.5	1350.6	1339.4	1321.5	1303.2	1291.7	1276.7
15°	1438.8	1400.3	1370.7	1335.0	1303.4	1270.4	1240.8	1207.8	1195.4	1169.3	1154.2
17.5°	1376.2	1337.2	1300.6	1252.7	1203.9	1162.9	1131.4	1099.8	1080.8	1064.1	1056.4
20°	1335.0	1299.2	1248.4	1192.7	1138.4	1093.0	1067.6	1047.0	1026.3	1014.7	1006.4
22.5°	1296.0	1250.3	1191.2	1131.1	1076.8	1041.3	1019.8	998.6	981.8	970.7	959.7
25°	1230.5	1170.7	1108.1	1039.4	1002.3	971.4	948.0	930.7	920.5	906.0	900.5
27.5°	1163.3	1090.8	1021.8	975.6	936.9	908.6	888.3	875.4	862.3	853.1	845.9
30°	1111.6	1038.0	976.1	932.1	892.9	869.6	853.1	838.0	827.7	820.1	814.6
32.5°	1060.4	986.9	934.9	887.6	856.7	833.9	816.2	804.9	796.9	787.1	783.8
35°	986.4	921.2	875.8	833.2	801.5	780.9	767.2	755.5	748.6	745.9	743.8
37.5°	915.4	861.9	813.1	778.2	750.0	733.7	717.6	711.8	707.1	702.1	704.4
40°	870.3	820.1	776.8	739.7	717.0	699.1	689.5	682.6	678.5	678.5	678.5
42.5°	831.2	782.1	739.9	706.7	684.0	668.9	658.1	652.4	651.0	650.5	653.8
45°	770.6	725.2	682.6	655.1	635.8	620.8	614.6	609.8	609.8	612.5	613.2
47.5°	710.5	668.0	633.8	603.0	585.4	575.9	570.6	568.1	568.3	571.1	574.3
50°	673.6	631.7	598.1	570.6	554.1	545.1	540.3	539.0	540.3	540.3	545.1
52.5°	633.5	596.0	562.8	539.8	521.1	512.7	510.1	508.2	508.9	511.2	513.2
55°	574.7	541.0	509.4	487.4	473.6	468.1	461.9	462.6	461.2	462.6	462.6
57.5°	515.7	485.4	456.1	438.6	426.5	418.5	411.7	413.7	411.6	411.4	410.3
60°	477.8	444.8	421.4	405.6	391.8	385.0	378.8	380.1	378.1	376.7	373.9
62.5°	436.5	409.1	386.8	371.5	360.5	352.5	346.3	344.9	340.2	335.4	329.4
65°	376.7	354.0	334.1	319.7	309.4	303.2	298.3	294.2	283.9	272.9	267.4
67.5°	318.6	302.2	283.6	271.4	263.0	254.9	245.7	238.7	229.0	223.0	219.6
70°	281.1	265.4	249.5	237.8	228.9	221.4	211.0	206.2	199.3	196.6	193.2
72.5°	245.4	230.7	216.0	205.4	195.9	190.0	181.9	177.1	174.1	173.0	169.5
75°	191.1	179.4	168.4	158.8	151.3	147.1	143.7	140.3	138.9	132.7	129.2
77.5°	139.4	131.7	124.8	118.0	112.6	109.9	103.2	99.3	96.9	94.0	93.3
80°	108.6	103.1	96.3	92.1	84.6	81.8	79.0	78.4	77.7	77.0	76.3
82.5°	81.7	76.2	69.3	66.8	64.7	63.1	61.5	60.8	60.1	60.5	60.4
85°	41.2	38.5	38.5	37.8	37.1	36.4	35.7	35.7	35.0	35.7	35.0
87.5°	16.3	16.2	16.5	15.8	16.7	17.0	16.8	17.0	17.8	17.0	17.2
90°	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7	26.0	27.4	28.2
92.5°	32.6	34.6	35.9	37.1	38.4	39.6	40.4	41.2	42.0	42.8	43.3
95°	68.0	69.8	71.4	72.9	74.5	76.0	76.7	77.3	78.0	78.7	79.0
97.5°	111.2	113.0	114.8	116.6	118.4	120.2	121.1	121.8	122.6	123.5	123.8
100°	143.6	145.1	147.1	149.0	151.0	153.1	153.5	153.9	154.4	154.8	155.1
102.5°	178.3	179.3	181.2	183.0	184.9	186.7	187.3	187.9	188.6	189.2	189.5
105°	233.9	234.5	235.4	236.3	237.2	238.1	238.8	239.4	240.0	240.7	241.4
107.5°	293.2	293.3	293.5	293.6	293.8	293.9	294.5	295.2	295.8	296.4	296.7
110°	333.9	334.0	333.8	333.6	333.3	333.1	332.7	332.2	331.7	331.3	331.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	374.1	373.9	373.5	373.2	372.7	372.3	372.2	372.1	372.0	372.0	372.0
115°	436.1	435.9	435.5	435.1	434.5	434.1	433.9	433.7	433.4	433.3	433.0
117.5°	495.7	495.6	495.2	495.0	494.6	494.4	493.6	492.8	492.1	491.3	490.8
120°	537.7	537.9	537.2	536.5	535.8	535.2	534.1	533.0	531.8	530.7	530.4
122.5°	576.4	576.4	576.1	575.8	575.5	575.1	574.5	573.7	572.9	572.1	571.4
125°	635.2	635.1	634.9	634.6	634.4	634.2	633.8	633.3	632.8	632.4	632.0
127.5°	692.5	692.7	692.2	691.9	691.6	691.2	690.8	690.3	689.9	689.4	689.1
130°	730.9	731.2	731.2	731.2	731.2	731.2	730.8	730.3	729.9	729.4	728.8
132.5°	769.4	769.6	769.4	769.2	769.0	768.9	768.4	767.9	767.5	767.1	766.6
135°	824.6	825.3	825.3	825.3	825.3	825.3	824.8	824.4	823.9	823.5	822.9
137.5°	878.1	878.7	879.0	879.3	879.7	880.0	879.5	878.9	878.3	877.8	877.5
140°	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.8	914.6	914.4	914.2
142.5°	949.5	949.6	949.4	949.3	949.1	948.9	948.8	948.8	948.7	948.7	948.6
145°	998.8	999.4	999.6	999.9	1000.1	1000.3	1000.1	999.9	999.6	999.4	998.9
147.5°	1046.8	1047.2	1047.1	1046.9	1046.7	1046.5	1046.4	1046.2	1046.0	1045.8	1045.6
150°	1074.9	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.2
152.5°	1100.7	1101.0	1101.2	1101.4	1101.6	1101.7	1102.3	1102.8	1103.4	1103.9	1103.9
155°	1140.3	1140.2	1140.1	1139.8	1139.5	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9
157.5°	1174.0	1173.7	1173.7	1173.6	1173.6	1173.5	1174.2	1174.9	1175.5	1176.2	1176.2
160°	1195.5	1195.2	1195.1	1194.8	1194.6	1194.4	1195.1	1195.7	1196.4	1197.0	1196.8
162.5°	1213.2	1212.9	1212.6	1212.5	1212.2	1211.9	1213.1	1214.4	1215.6	1216.8	1216.9
165°	1238.7	1238.1	1237.7	1237.3	1236.8	1236.4	1237.7	1239.1	1240.4	1241.7	1241.9
167.5°	1257.5	1257.0	1257.1	1257.1	1257.1	1257.1	1258.5	1259.8	1261.2	1262.5	1262.5
170°	1267.9	1267.5	1267.7	1267.9	1268.2	1268.4	1269.7	1271.1	1272.4	1273.8	1273.6
172.5°	1276.7	1276.2	1276.3	1276.3	1276.3	1276.4	1277.9	1279.4	1280.9	1282.5	1282.5
175°	1286.9	1286.2	1286.1	1285.8	1285.6	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6
177.5°	1291.4	1291.0	1291.0	1291.0	1291.0	1291.0	1292.3	1293.5	1294.8	1296.0	1295.9
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1628.7	1629.8	1625.9	1624.8	1625.9	1629.8	1628.7	1631.9	1632.5	1636.9	1635.3
5°	1511.0	1509.6	1506.1	1506.8	1506.1	1509.6	1511.0	1516.5	1519.2	1530.3	1528.9
7.5°	1410.3	1405.0	1406.4	1401.0	1406.4	1405.0	1410.3	1415.3	1423.7	1428.7	1440.3
10°	1348.8	1341.2	1335.0	1329.5	1335.0	1341.2	1348.8	1351.5	1363.1	1368.6	1380.4
12.5°	1264.6	1258.1	1249.7	1251.4	1249.7	1258.1	1264.6	1276.7	1291.7	1303.2	1321.5
15°	1145.2	1135.0	1118.4	1120.5	1118.4	1135.0	1145.2	1154.2	1169.3	1195.4	1207.8
17.5°	1044.2	1044.3	1036.8	1038.5	1036.8	1044.3	1044.2	1056.4	1064.1	1080.8	1099.8
20°	992.0	987.1	987.8	985.8	987.8	987.1	992.0	1006.4	1014.7	1026.3	1047.0
22.5°	955.6	949.8	944.9	940.6	944.9	949.8	955.6	959.7	970.7	981.8	998.6
25°	894.3	890.2	884.1	882.7	884.1	890.2	894.3	900.5	906.0	920.5	930.7
27.5°	840.4	839.6	837.2	834.0	837.2	839.6	840.4	845.9	853.1	862.3	875.4
30°	809.1	807.7	806.3	804.3	806.3	807.7	809.1	814.6	820.1	827.7	838.0
32.5°	781.1	780.2	778.9	779.0	778.9	780.2	781.1	783.8	787.1	796.9	804.9
35°	741.1	740.4	739.0	738.3	739.0	740.4	741.1	743.8	745.9	748.6	755.5
37.5°	703.7	705.4	704.6	704.5	704.6	705.4	703.7	704.4	702.1	707.1	711.8
40°	677.8	678.5	679.8	679.2	679.8	678.5	677.8	678.5	678.5	678.5	682.6
42.5°	656.3	656.5	658.4	656.1	658.4	656.5	656.3	653.8	650.5	651.0	652.4
45°	618.0	622.2	621.5	621.5	621.5	622.2	618.0	613.2	612.5	609.8	609.8
47.5°	576.1	579.6	580.6	580.5	580.6	579.6	576.1	574.3	571.1	568.3	568.1
50°	548.5	547.2	549.2	548.5	549.2	547.2	548.5	545.1	540.3	540.3	539.0
52.5°	515.1	515.3	515.1	514.4	515.1	515.3	515.1	513.2	511.2	508.9	508.2
55°	463.3	464.0	462.6	463.3	462.6	464.0	463.3	462.6	462.6	461.2	462.6
57.5°	407.3	403.9	405.3	403.6	405.3	403.9	407.3	410.3	411.4	411.6	413.7
60°	367.1	361.6	360.2	357.5	360.2	361.6	367.1	373.9	376.7	378.1	380.1
62.5°	322.0	318.1	313.5	315.6	313.5	318.1	322.0	329.4	335.4	340.2	344.9
65°	261.9	259.2	257.1	259.8	257.1	259.2	261.9	267.4	272.9	283.9	294.2
67.5°	216.8	215.3	215.3	214.0	215.3	215.3	216.8	219.6	223.0	229.0	238.7
70°	193.2	191.1	191.1	189.8	191.1	191.1	193.2	193.2	196.6	199.3	206.2
72.5°	168.9	166.9	167.5	166.6	167.5	166.9	168.9	169.5	173.0	174.1	177.1
75°	125.1	121.7	121.7	122.3	121.7	121.7	125.1	129.2	132.7	138.9	140.3
77.5°	93.3	92.6	93.6	92.4	93.6	92.6	93.3	93.3	94.0	96.9	99.3
80°	76.3	75.6	74.9	77.0	74.9	75.6	76.3	76.3	77.0	77.7	78.4
82.5°	59.2	59.2	59.0	61.6	59.0	59.2	59.2	60.4	60.5	60.1	60.8
85°	35.7	34.4	35.7	34.4	35.7	34.4	35.7	35.0	35.7	35.0	35.7
87.5°	18.4	17.9	17.5	18.1	17.5	17.9	18.4	17.2	17.0	17.8	17.0
90°	28.7	29.1	29.5	30.0	29.5	29.1	28.7	28.2	27.4	26.0	24.7
92.5°	43.7	43.9	44.2	44.4	44.2	43.9	43.7	43.3	42.8	42.0	41.2
95°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.7	78.0	77.3
97.5°	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.8	123.5	122.6	121.8
100°	155.1	155.1	155.1	155.1	155.1	155.1	155.1	155.1	154.8	154.4	153.9
102.5°	189.8	189.9	190.1	190.3	190.1	189.9	189.8	189.5	189.2	188.6	187.9
105°	242.1	242.7	243.4	244.1	243.4	242.7	242.1	241.4	240.7	240.0	239.4
107.5°	296.6	296.6	296.5	296.5	296.5	296.6	296.6	296.7	296.4	295.8	295.2
110°	332.1	332.8	333.5	334.1	333.5	332.8	332.1	331.4	331.3	331.7	332.2



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	372.1	372.2	372.4	372.6	372.4	372.2	372.1	372.0	372.0	372.0	372.1
115°	432.8	432.6	432.4	432.1	432.4	432.6	432.8	433.0	433.3	433.4	433.7
117.5°	490.3	489.8	489.4	489.0	489.4	489.8	490.3	490.8	491.3	492.1	492.8
120°	530.8	531.2	531.8	532.2	531.8	531.2	530.8	530.4	530.7	531.8	533.0
122.5°	570.6	569.8	568.9	568.2	568.9	569.8	570.6	571.4	572.1	572.9	573.7
125°	631.5	631.1	630.6	630.2	630.6	631.1	631.5	632.0	632.4	632.8	633.3
127.5°	688.7	688.3	687.9	687.6	687.9	688.3	688.7	689.1	689.4	689.9	690.3
130°	727.9	727.0	726.1	725.2	726.1	727.0	727.9	728.8	729.4	729.9	730.3
132.5°	766.3	765.9	765.6	765.3	765.6	765.9	766.3	766.6	767.1	767.5	767.9
135°	822.3	821.6	820.9	820.3	820.9	821.6	822.3	822.9	823.5	823.9	824.4
137.5°	877.7	877.8	878.0	878.0	878.0	877.8	877.7	877.5	877.8	878.3	878.9
140°	914.0	913.7	913.5	913.3	913.5	913.7	914.0	914.2	914.4	914.6	914.8
142.5°	948.6	948.6	948.6	948.5	948.6	948.6	948.6	948.6	948.7	948.7	948.8
145°	998.3	997.6	997.0	996.3	997.0	997.6	998.3	998.9	999.4	999.6	999.9
147.5°	1045.4	1045.2	1044.9	1044.7	1044.9	1045.2	1045.4	1045.6	1045.8	1046.0	1046.2
150°	1075.0	1074.8	1074.5	1074.4	1074.5	1074.8	1075.0	1075.2	1075.3	1075.3	1075.3
152.5°	1103.3	1102.7	1102.1	1101.6	1102.1	1102.7	1103.3	1103.9	1103.9	1103.4	1102.8
155°	1142.0	1141.2	1140.2	1139.4	1140.2	1141.2	1142.0	1142.9	1142.9	1142.0	1141.2
157.5°	1175.4	1174.7	1173.9	1173.2	1173.9	1174.7	1175.4	1176.2	1176.2	1175.5	1174.9
160°	1195.7	1194.6	1193.5	1192.4	1193.5	1194.6	1195.7	1196.8	1197.0	1196.4	1195.7
162.5°	1215.7	1214.6	1213.5	1212.4	1213.5	1214.6	1215.7	1216.9	1216.8	1215.6	1214.4
165°	1241.0	1240.2	1239.2	1238.4	1239.2	1240.2	1241.0	1241.9	1241.7	1240.4	1239.1
167.5°	1261.1	1259.7	1258.4	1257.0	1258.4	1259.7	1261.1	1262.5	1262.5	1261.2	1259.8
170°	1272.0	1270.5	1268.9	1267.4	1268.9	1270.5	1272.0	1273.6	1273.8	1272.4	1271.1
172.5°	1280.8	1279.3	1277.7	1276.2	1277.7	1279.3	1280.8	1282.5	1282.5	1280.9	1279.4
175°	1290.0	1288.5	1286.9	1285.4	1286.9	1288.5	1290.0	1291.6	1291.6	1290.0	1288.5
177.5°	1294.4	1293.0	1291.6	1290.2	1291.6	1293.0	1294.4	1295.9	1296.0	1294.8	1293.5
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935
 CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1631.9	1635.8	1644.6	1654.5	1662.8	1669.9	1675.4	1683.1	1690.2	1700.1	1709.5
5°	1533.0	1542.6	1556.3	1572.9	1593.5	1607.2	1624.4	1639.5	1661.6	1683.5	1704.9
7.5°	1446.0	1456.6	1476.9	1499.7	1524.1	1546.7	1567.1	1593.7	1622.9	1654.9	1690.7
10°	1390.0	1401.7	1425.7	1451.8	1480.7	1502.7	1530.3	1561.9	1594.8	1634.0	1678.0
12.5°	1339.4	1350.6	1379.5	1406.2	1436.1	1460.3	1492.3	1524.5	1568.5	1610.9	1661.0
15°	1240.8	1270.4	1303.4	1335.0	1370.7	1400.3	1438.8	1471.8	1513.7	1573.6	1630.6
17.5°	1131.4	1162.9	1203.9	1252.7	1300.6	1337.2	1376.2	1417.2	1467.1	1528.2	1594.1
20°	1067.6	1093.0	1138.4	1192.7	1248.4	1299.2	1335.0	1380.4	1431.9	1497.9	1566.0
22.5°	1019.8	1041.3	1076.8	1131.1	1191.2	1250.3	1296.0	1340.7	1397.8	1463.8	1537.9
25°	948.0	971.4	1002.3	1039.4	1108.1	1170.7	1230.5	1282.0	1342.6	1408.5	1491.0
27.5°	888.3	908.6	936.9	975.6	1021.8	1090.8	1163.3	1222.1	1284.1	1355.0	1437.5
30°	853.1	869.6	892.9	932.1	976.1	1038.0	1111.6	1180.3	1242.9	1316.5	1402.4
32.5°	816.2	833.9	856.7	887.6	934.9	986.9	1060.4	1135.7	1202.2	1277.4	1361.7
35°	767.2	780.9	801.5	833.2	875.8	921.2	986.4	1064.1	1134.3	1214.7	1295.1
37.5°	717.6	733.7	750.0	778.2	813.1	861.9	915.4	994.7	1072.4	1145.8	1224.3
40°	689.5	699.1	717.0	739.7	776.8	820.1	870.3	948.0	1025.6	1098.5	1177.6
42.5°	658.1	668.9	684.0	706.7	739.9	782.1	831.2	898.5	979.5	1050.2	1122.1
45°	614.6	620.8	635.8	655.1	682.6	725.2	770.6	830.4	906.7	974.0	1037.3
47.5°	570.6	575.9	585.4	603.0	633.8	668.0	710.5	764.1	831.1	898.5	951.9
50°	540.3	545.1	554.1	570.6	598.1	631.7	673.6	721.8	781.6	846.2	890.9
52.5°	510.1	512.7	521.1	539.8	562.8	596.0	633.5	677.8	733.7	787.4	832.6
55°	461.9	468.1	473.6	487.4	509.4	541.0	574.7	616.6	660.0	705.3	743.8
57.5°	411.7	418.5	426.5	438.6	456.1	485.4	515.7	549.7	586.7	624.3	656.6
60°	378.8	385.0	391.8	405.6	421.4	444.8	477.8	507.3	535.5	569.9	602.2
62.5°	346.3	352.5	360.5	371.5	386.8	409.1	436.5	462.3	491.5	521.5	545.5
65°	298.3	303.2	309.4	319.7	334.1	354.0	376.7	396.7	422.8	444.8	466.7
67.5°	245.7	254.9	263.0	271.4	283.6	302.2	318.6	337.7	355.4	371.8	391.8
70°	211.0	221.4	228.9	237.8	249.5	265.4	281.1	294.2	308.7	324.4	342.3
72.5°	181.9	190.0	195.9	205.4	216.0	230.7	245.4	256.2	267.9	278.8	296.2
75°	143.7	147.1	151.3	158.8	168.4	179.4	191.1	200.7	207.6	217.2	229.6
77.5°	103.2	109.9	112.6	118.0	124.8	131.7	139.4	147.5	154.1	157.6	167.0
80°	79.0	81.8	84.6	92.1	96.3	103.1	108.6	116.1	118.9	122.3	131.3
82.5°	61.5	63.1	64.7	66.8	69.3	76.2	81.7	86.4	89.2	90.5	97.2
85°	35.7	36.4	37.1	37.8	38.5	38.5	41.2	44.7	49.5	49.5	51.6
87.5°	16.8	17.0	16.7	15.8	16.5	16.2	16.3	15.8	17.0	18.2	19.3
90°	23.3	22.0	20.2	18.4	16.7	14.9	12.7	10.3	7.9	5.4	3.0
92.5°	40.4	39.6	38.4	37.1	35.9	34.6	32.6	29.8	27.0	24.2	21.4
95°	76.7	76.0	74.5	72.9	71.4	69.8	68.0	66.0	64.1	62.0	60.0
97.5°	121.1	120.2	118.4	116.6	114.8	113.0	111.2	109.6	108.1	106.4	104.9
100°	153.5	153.1	151.0	149.0	147.1	145.1	143.6	142.7	141.8	140.9	140.1
102.5°	187.3	186.7	184.9	183.0	181.2	179.3	178.3	177.9	177.5	177.2	176.8
105°	238.8	238.1	237.2	236.3	235.4	234.5	233.9	233.8	233.5	233.3	233.1
107.5°	294.5	293.9	293.8	293.6	293.5	293.3	293.2	292.9	292.7	292.4	292.1
110°	332.7	333.1	333.3	333.6	333.8	334.0	333.9	333.5	332.9	332.5	332.1



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	372.2	372.3	372.7	373.2	373.5	373.9	374.1	374.0	373.9	373.8	373.7
115°	433.9	434.1	434.5	435.1	435.5	435.9	436.1	436.1	436.1	436.1	436.1
117.5°	493.6	494.4	494.6	495.0	495.2	495.6	495.7	495.5	495.3	495.2	495.0
120°	534.1	535.2	535.8	536.5	537.2	537.9	537.7	536.8	536.0	535.0	534.2
122.5°	574.5	575.1	575.5	575.8	576.1	576.4	576.4	576.0	575.7	575.3	575.0
125°	633.8	634.2	634.4	634.6	634.9	635.1	635.2	635.2	635.2	635.2	635.2
127.5°	690.8	691.2	691.6	691.9	692.2	692.7	692.5	691.8	691.1	690.5	689.8
130°	730.8	731.2	731.2	731.2	731.2	731.2	730.9	730.2	729.5	728.9	728.2
132.5°	768.4	768.9	769.0	769.2	769.4	769.6	769.4	768.9	768.4	767.9	767.4
135°	824.8	825.3	825.3	825.3	825.3	825.3	824.6	823.3	821.9	820.6	819.2
137.5°	879.5	880.0	879.7	879.3	879.0	878.7	878.1	877.5	876.9	876.3	875.6
140°	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.6	914.2	913.7	913.3
142.5°	948.8	948.9	949.1	949.3	949.4	949.6	949.5	949.0	948.6	948.1	947.7
145°	1000.1	1000.3	1000.1	999.9	999.6	999.4	998.8	998.0	997.1	996.2	995.3
147.5°	1046.4	1046.5	1046.7	1046.9	1047.1	1047.2	1046.8	1045.7	1044.7	1043.6	1042.5
150°	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1074.9	1074.0	1073.2	1072.2	1071.3
152.5°	1102.3	1101.7	1101.6	1101.4	1101.2	1101.0	1100.7	1100.1	1099.6	1099.1	1098.5
155°	1140.2	1139.4	1139.5	1139.8	1140.1	1140.2	1140.3	1140.3	1140.3	1140.3	1140.3
157.5°	1174.2	1173.5	1173.6	1173.6	1173.7	1173.7	1174.0	1174.4	1174.7	1175.2	1175.5
160°	1195.1	1194.4	1194.6	1194.8	1195.1	1195.2	1195.5	1195.7	1195.9	1196.2	1196.4
162.5°	1213.1	1211.9	1212.2	1212.5	1212.6	1212.9	1213.2	1213.8	1214.4	1215.0	1215.6
165°	1237.7	1236.4	1236.8	1237.3	1237.7	1238.1	1238.7	1239.4	1240.0	1240.7	1241.4
167.5°	1258.5	1257.1	1257.1	1257.1	1257.1	1257.0	1257.5	1258.4	1259.3	1260.2	1261.2
170°	1269.7	1268.4	1268.2	1267.9	1267.7	1267.5	1267.9	1269.0	1270.1	1271.3	1272.4
172.5°	1277.9	1276.4	1276.3	1276.3	1276.3	1276.2	1276.7	1277.6	1278.5	1279.4	1280.4
175°	1286.9	1285.4	1285.6	1285.8	1286.1	1286.2	1286.9	1288.1	1289.2	1290.3	1291.4
177.5°	1292.3	1291.0	1291.0	1291.0	1291.0	1291.0	1291.4	1292.4	1293.2	1294.1	1295.0
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1716.7	1721.6	1727.1	1737.6	1746.4	1750.2	1757.9	1763.4	1761.8	1769.4	1782.6
5°	1723.4	1742.0	1763.2	1785.3	1810.0	1830.7	1847.1	1863.6	1876.7	1892.5	1915.9
7.5°	1722.3	1755.3	1791.1	1830.7	1871.2	1906.3	1938.7	1971.7	2001.0	2033.0	2074.9
10°	1717.9	1761.9	1806.6	1858.1	1909.7	1958.5	2002.5	2043.8	2082.9	2124.9	2177.8
12.5°	1713.0	1763.5	1817.6	1879.6	1943.8	2002.5	2054.2	2113.6	2162.7	2216.7	2277.9
15°	1691.1	1759.1	1832.7	1913.1	1990.1	2069.2	2139.9	2212.9	2280.9	2345.5	2422.5
17.5°	1666.0	1744.6	1831.3	1926.3	2018.9	2115.0	2199.0	2290.8	2360.3	2447.1	2518.6
20°	1645.7	1730.3	1823.1	1929.6	2034.8	2141.3	2234.1	2327.6	2406.0	2493.3	2584.0
22.5°	1620.9	1713.7	1814.3	1924.7	2034.8	2151.2	2253.9	2346.9	2443.9	2542.3	2635.8
25°	1581.1	1677.3	1783.9	1904.9	2031.4	2150.3	2260.3	2375.8	2480.3	2586.8	2670.6
27.5°	1532.1	1633.2	1745.5	1870.4	2000.2	2121.9	2251.5	2374.6	2479.7	2582.2	2655.4
30°	1493.1	1599.7	1707.5	1834.1	1968.8	2099.4	2238.3	2361.3	2472.0	2564.1	2605.4
32.5°	1452.9	1554.0	1665.3	1793.4	1931.4	2071.9	2209.7	2335.5	2437.9	2493.2	2494.2
35°	1383.1	1478.0	1593.5	1719.2	1860.9	2013.4	2153.0	2276.7	2339.3	2344.2	2276.7
37.5°	1306.9	1394.0	1503.0	1628.9	1784.0	1935.8	2078.4	2160.9	2181.8	2111.8	1987.2
40°	1252.5	1332.9	1438.1	1567.4	1721.3	1878.1	2008.0	2068.5	2046.5	1933.0	1794.2
42.5°	1195.3	1270.2	1371.6	1499.2	1653.7	1812.1	1922.8	1955.2	1896.9	1765.9	1603.4
45°	1102.0	1170.7	1271.1	1399.6	1548.1	1696.6	1780.5	1763.9	1667.0	1511.7	1329.5
47.5°	1004.8	1071.2	1161.5	1280.4	1432.4	1560.6	1617.4	1567.6	1429.7	1258.8	1110.6
50°	940.4	1008.5	1091.7	1205.1	1343.9	1467.7	1504.1	1428.5	1275.1	1110.9	974.7
52.5°	877.2	935.3	1016.8	1126.4	1259.2	1363.7	1383.1	1296.0	1137.7	990.4	869.7
55°	780.9	833.9	902.6	1005.7	1120.5	1209.2	1198.9	1086.8	943.1	817.3	722.5
57.5°	687.9	727.7	791.3	887.9	988.7	1048.2	1010.6	915.0	781.1	678.1	598.1
60°	626.3	663.4	722.5	807.0	895.7	929.4	897.8	794.0	688.1	593.9	526.6
62.5°	567.9	600.7	651.5	730.0	801.7	821.7	787.8	697.2	601.8	521.3	465.5
65°	483.3	513.5	556.8	612.5	662.0	671.6	649.6	556.8	484.7	417.2	378.8
67.5°	406.4	426.2	460.0	508.2	534.4	540.0	497.6	439.3	375.7	334.2	305.2
70°	354.7	368.4	400.1	426.2	447.5	448.2	409.1	362.3	313.5	279.8	258.5
72.5°	304.7	317.9	341.8	359.6	376.0	370.7	334.8	297.9	258.5	233.1	217.2
75°	235.1	246.8	259.2	267.4	267.4	260.5	234.5	206.9	184.3	169.1	164.3
77.5°	170.9	180.6	184.7	183.4	180.9	170.2	153.7	135.7	127.6	120.5	116.8
80°	134.1	138.2	139.6	136.1	132.0	119.6	108.6	101.1	93.5	90.7	89.4
82.5°	99.4	103.0	99.4	100.4	91.3	81.1	75.1	72.5	69.3	68.2	66.8
85°	53.0	52.3	50.9	47.4	41.2	39.9	39.2	38.5	37.1	37.8	36.4
87.5°	19.2	18.1	16.4	16.3	16.7	16.0	16.9	17.2	17.6	17.3	18.7
90°	5.4	7.9	10.3	12.7	14.9	16.7	18.4	20.2	22.0	23.3	24.7
92.5°	24.2	27.0	29.8	32.6	34.6	35.9	37.1	38.4	39.6	40.4	41.2
95°	62.0	64.1	66.0	68.0	69.8	71.4	72.9	74.5	76.0	76.7	77.3
97.5°	106.4	108.1	109.6	111.2	113.0	114.8	116.6	118.4	120.2	121.1	121.8
100°	140.9	141.8	142.7	143.6	145.1	147.1	149.0	151.0	153.1	153.5	153.9
102.5°	177.2	177.5	177.9	178.3	179.3	181.2	183.0	184.9	186.7	187.3	187.9
105°	233.3	233.5	233.8	233.9	234.5	235.4	236.3	237.2	238.1	238.8	239.4
107.5°	292.4	292.7	292.9	293.2	293.3	293.5	293.6	293.8	293.9	294.5	295.2
110°	332.5	332.9	333.5	333.9	334.0	333.8	333.6	333.3	333.1	332.7	332.2



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	373.8	373.9	374.0	374.1	373.9	373.5	373.2	372.7	372.3	372.2	372.1
115°	436.1	436.1	436.1	436.1	435.9	435.5	435.1	434.5	434.1	433.9	433.7
117.5°	495.2	495.3	495.5	495.7	495.6	495.2	495.0	494.6	494.4	493.6	492.8
120°	535.0	536.0	536.8	537.7	537.9	537.2	536.5	535.8	535.2	534.1	533.0
122.5°	575.3	575.7	576.0	576.4	576.4	576.1	575.8	575.5	575.1	574.5	573.7
125°	635.2	635.2	635.2	635.2	635.1	634.9	634.6	634.4	634.2	633.8	633.3
127.5°	690.5	691.1	691.8	692.5	692.7	692.2	691.9	691.6	691.2	690.8	690.3
130°	728.9	729.5	730.2	730.9	731.2	731.2	731.2	731.2	731.2	730.8	730.3
132.5°	767.9	768.4	768.9	769.4	769.6	769.4	769.2	769.0	768.9	768.4	767.9
135°	820.6	821.9	823.3	824.6	825.3	825.3	825.3	825.3	825.3	824.8	824.4
137.5°	876.3	876.9	877.5	878.1	878.7	879.0	879.3	879.7	880.0	879.5	878.9
140°	913.7	914.2	914.6	915.1	915.2	915.2	915.2	915.2	915.2	915.1	914.8
142.5°	948.1	948.6	949.0	949.5	949.6	949.4	949.3	949.1	948.9	948.8	948.8
145°	996.2	997.1	998.0	998.8	999.4	999.6	999.9	1000.1	1000.3	1000.1	999.9
147.5°	1043.6	1044.7	1045.7	1046.8	1047.2	1047.1	1046.9	1046.7	1046.5	1046.4	1046.2
150°	1072.2	1073.2	1074.0	1074.9	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3	1075.3
152.5°	1099.1	1099.6	1100.1	1100.7	1101.0	1101.2	1101.4	1101.6	1101.7	1102.3	1102.8
155°	1140.3	1140.3	1140.3	1140.3	1140.2	1140.1	1139.8	1139.5	1139.4	1140.2	1141.2
157.5°	1175.2	1174.7	1174.4	1174.0	1173.7	1173.7	1173.6	1173.6	1173.5	1174.2	1174.9
160°	1196.2	1195.9	1195.7	1195.5	1195.2	1195.1	1194.8	1194.6	1194.4	1195.1	1195.7
162.5°	1215.0	1214.4	1213.8	1213.2	1212.9	1212.6	1212.5	1212.2	1211.9	1213.1	1214.4
165°	1240.7	1240.0	1239.4	1238.7	1238.1	1237.7	1237.3	1236.8	1236.4	1237.7	1239.1
167.5°	1260.2	1259.3	1258.4	1257.5	1257.0	1257.1	1257.1	1257.1	1257.1	1258.5	1259.8
170°	1271.3	1270.1	1269.0	1267.9	1267.5	1267.7	1267.9	1268.2	1268.4	1269.7	1271.1
172.5°	1279.4	1278.5	1277.6	1276.7	1276.2	1276.3	1276.3	1276.3	1276.4	1277.9	1279.4
175°	1290.3	1289.2	1288.1	1286.9	1286.2	1286.1	1285.8	1285.6	1285.4	1286.9	1288.5
177.5°	1294.1	1293.2	1292.4	1291.4	1291.0	1291.0	1291.0	1291.0	1291.0	1292.3	1293.5
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2	1706.2
2.5°	1789.8	1792.0	1793.6	1799.1	1799.7	1804.7	1799.7
5°	1937.9	1947.5	1962.6	1977.7	1979.1	1988.7	1971.5
7.5°	2103.9	2126.2	2140.1	2164.6	2174.2	2180.2	2170.3
10°	2218.4	2238.9	2275.4	2293.3	2311.2	2313.9	2305.7
12.5°	2328.9	2361.6	2390.3	2424.1	2423.4	2447.6	2438.7
15°	2476.1	2509.8	2549.7	2587.5	2601.3	2601.3	2612.3
17.5°	2581.2	2642.9	2684.2	2713.9	2746.2	2751.9	2748.1
20°	2652.1	2718.8	2762.8	2801.3	2823.3	2829.5	2829.5
22.5°	2704.9	2761.7	2804.6	2839.2	2857.4	2864.6	2862.5
25°	2741.5	2790.2	2816.4	2826.7	2831.5	2830.2	2817.1
27.5°	2691.4	2689.2	2672.7	2641.1	2617.4	2602.9	2586.4
30°	2595.7	2560.0	2518.8	2473.4	2414.9	2370.2	2356.5
32.5°	2453.3	2373.0	2303.2	2227.6	2164.7	2120.0	2101.4
35°	2177.8	2050.6	1946.8	1856.1	1790.1	1748.9	1735.1
37.5°	1850.8	1727.8	1599.2	1511.2	1456.6	1414.9	1399.3
40°	1643.0	1508.9	1396.9	1314.4	1258.0	1217.5	1216.8
42.5°	1453.2	1325.3	1219.8	1160.4	1099.6	1072.8	1072.6
45°	1189.9	1087.5	998.2	951.4	915.0	892.9	886.7
47.5°	985.2	900.5	841.0	803.7	774.0	760.0	751.0
50°	870.3	796.1	748.6	716.3	699.8	681.9	680.5
52.5°	774.6	714.6	677.7	651.4	630.5	619.7	620.1
55°	651.0	603.6	577.5	557.5	541.0	532.8	529.3
57.5°	548.5	512.8	493.9	475.5	468.6	462.1	460.3
60°	484.7	460.5	442.7	428.3	417.9	415.9	415.2
62.5°	431.9	406.7	394.3	383.1	375.7	372.5	371.2
65°	356.1	337.5	326.5	317.6	314.9	310.0	309.4
67.5°	287.1	276.0	268.6	262.4	258.7	258.5	258.5
70°	244.7	238.5	232.4	228.9	226.9	225.5	225.5
72.5°	208.4	203.9	198.8	197.0	196.6	195.2	194.7
75°	158.8	153.9	154.6	151.3	148.5	145.1	143.0
77.5°	112.6	109.2	108.5	108.1	105.7	105.3	106.4
80°	87.3	83.9	83.2	83.9	83.2	81.1	81.1
82.5°	66.4	63.5	62.9	62.4	61.7	62.4	61.3
85°	35.7	34.4	34.4	34.4	35.7	35.0	34.4
87.5°	17.8	17.6	18.3	17.8	17.9	17.5	18.1
90°	26.0	27.4	28.2	28.7	29.1	29.5	30.0
92.5°	42.0	42.8	43.3	43.7	43.9	44.2	44.4
95°	78.0	78.7	79.0	79.0	79.0	79.0	79.0
97.5°	122.6	123.5	123.8	123.8	123.8	123.8	123.8
100°	154.4	154.8	155.1	155.1	155.1	155.1	155.1
102.5°	188.6	189.2	189.5	189.8	189.9	190.1	190.3
105°	240.0	240.7	241.4	242.1	242.7	243.4	244.1
107.5°	295.8	296.4	296.7	296.6	296.6	296.5	296.5
110°	331.7	331.3	331.4	332.1	332.8	333.5	334.1



TEST NUMBER: P333010-935

CATALOG NUMBER: SA4XXRDIP-C1195D1205U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	372.0	372.0	372.0	372.1	372.2	372.4	372.6
115°	433.4	433.3	433.0	432.8	432.6	432.4	432.1
117.5°	492.1	491.3	490.8	490.3	489.8	489.4	489.0
120°	531.8	530.7	530.4	530.8	531.2	531.8	532.2
122.5°	572.9	572.1	571.4	570.6	569.8	568.9	568.2
125°	632.8	632.4	632.0	631.5	631.1	630.6	630.2
127.5°	689.9	689.4	689.1	688.7	688.3	687.9	687.6
130°	729.9	729.4	728.8	727.9	727.0	726.1	725.2
132.5°	767.5	767.1	766.6	766.3	765.9	765.6	765.3
135°	823.9	823.5	822.9	822.3	821.6	820.9	820.3
137.5°	878.3	877.8	877.5	877.7	877.8	878.0	878.0
140°	914.6	914.4	914.2	914.0	913.7	913.5	913.3
142.5°	948.7	948.7	948.6	948.6	948.6	948.6	948.5
145°	999.6	999.4	998.9	998.3	997.6	997.0	996.3
147.5°	1046.0	1045.8	1045.6	1045.4	1045.2	1044.9	1044.7
150°	1075.3	1075.3	1075.2	1075.0	1074.8	1074.5	1074.4
152.5°	1103.4	1103.9	1103.9	1103.3	1102.7	1102.1	1101.6
155°	1142.0	1142.9	1142.9	1142.0	1141.2	1140.2	1139.4
157.5°	1175.5	1176.2	1176.2	1175.4	1174.7	1173.9	1173.2
160°	1196.4	1197.0	1196.8	1195.7	1194.6	1193.5	1192.4
162.5°	1215.6	1216.8	1216.9	1215.7	1214.6	1213.5	1212.4
165°	1240.4	1241.7	1241.9	1241.0	1240.2	1239.2	1238.4
167.5°	1261.2	1262.5	1262.5	1261.1	1259.7	1258.4	1257.0
170°	1272.4	1273.8	1273.6	1272.0	1270.5	1268.9	1267.4
172.5°	1280.9	1282.5	1282.5	1280.8	1279.3	1277.7	1276.2
175°	1290.0	1291.6	1291.6	1290.0	1288.5	1286.9	1285.4
177.5°	1294.8	1296.0	1295.9	1294.4	1293.0	1291.6	1290.2
180°	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4	1293.4

(END OF REPORT)