

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

Luminaire Tested: **SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333010
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-C1195D1205U835-4F0-1E-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

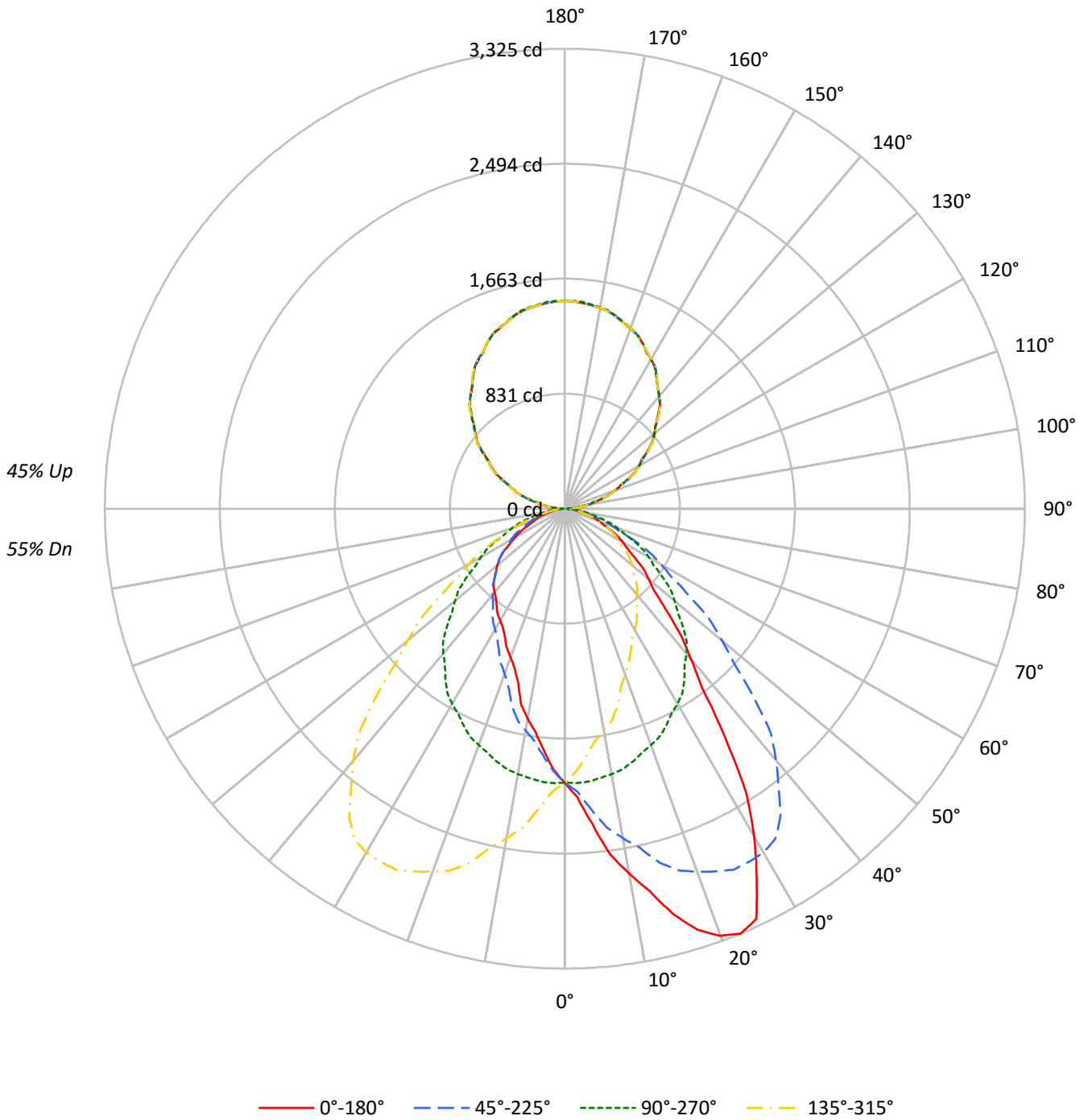
Lumens per Lamp: N/A
Luminaire Lumens: 9181.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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



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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	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°	15998	15998	15998	15998
5°	18556	16046	14182	16046
10°	21952	15976	12658	15976
15°	25357	15828	10877	15828
20°	28233	15625	9836	15625
25°	29144	15425	9132	15425
30°	25513	15183	8708	15183
35°	19860	14824	8451	14824
40°	14893	14413	8313	14413
45°	11758	13755	8241	13755
50°	9927	12995	8002	12995
55°	8653	12159	7574	12159
60°	7786	11292	6704	11292
65°	6863	10355	5765	10355
70°	6182	9385	5202	9385
75°	5181	8319	4432	8319
80°	4379	7090	4156	7090
85°	3696	5548	3696	5548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.0	2.1
10°-20°	579.2	6.3
20°-30°	905.9	9.9
30°-40°	1007.1	11.0
40°-50°	893.5	9.7
50°-60°	696.2	7.6
60°-70°	455.8	5.0
70°-80°	224.2	2.4
80°-90°	59.8	0.7
90°-100°	99.1	1.1
100°-110°	293.5	3.2
110°-120°	498.2	5.4
120°-130°	656.9	7.2
130°-140°	737.7	8.0
140°-150°	724.9	7.9
150°-160°	609.7	6.6
160°-170°	405.7	4.4
170°-180°	142.1	1.5
0°-30°	1677.1	18.3
0°-40°	2684.1	29.2
0°-60°	4273.8	46.5
0°-90°	5013.6	54.6
90°-120°	890.8	9.7
90°-150°	3010.3	32.8
90°-180°	4168.0	45.4
0°-180°	9181.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1982	1982	1982	1982	1982	
5°	2290	1980	1750	1980	2290	232
15°	3034	1894	1301	1894	3034	863
25°	3272	1732	1025	1732	3272	1452
35°	2015	1504	858	1504	2015	1263
45°	1030	1205	722	1205	1030	816
55°	615	864	538	864	615	559
65°	359	542	302	542	359	361
75°	166	267	142	267	166	183
85°	40	60	40	60	40	46
90°	35	4	35	4	35	20
95°	92	70	92	70	92	96
105°	284	271	284	271	284	299
115°	502	506	502	506	502	496
125°	732	738	732	738	732	653
135°	953	952	953	952	953	736
145°	1157	1156	1157	1156	1157	724
155°	1323	1324	1323	1324	1323	609
165°	1438	1442	1438	1442	1438	405
175°	1493	1500	1493	1500	1493	142
180°	1502	1502	1502	1502	1502	



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2090.2	2096.0	2090.2	2089.6	2083.2	2081.3	2078.7	2070.4	2055.1	2046.2	2048.1
5°	2289.8	2309.8	2298.6	2297.0	2279.5	2261.9	2250.7	2225.2	2198.0	2179.7	2164.5
7.5°	2520.7	2532.2	2525.2	2514.0	2485.6	2469.5	2443.6	2409.9	2361.2	2324.0	2290.0
10°	2677.9	2687.4	2684.3	2663.5	2642.7	2600.4	2576.5	2529.4	2467.9	2419.2	2373.7
12.5°	2832.4	2842.7	2814.6	2815.5	2776.2	2742.9	2704.9	2645.6	2574.6	2511.8	2454.8
15°	3034.0	3021.2	3021.2	3005.2	2961.3	2915.0	2875.9	2813.6	2724.2	2649.1	2570.1
17.5°	3191.7	3196.2	3189.6	3152.0	3117.5	3069.6	2997.9	2925.2	2842.2	2741.4	2660.6
20°	3286.3	3286.3	3279.1	3253.5	3208.8	3157.7	3080.3	3001.2	2895.8	2794.4	2703.4
22.5°	3324.6	3327.1	3318.7	3297.6	3257.4	3207.5	3141.6	3061.3	2952.7	2838.5	2725.8
25°	3271.9	3287.1	3288.6	3283.1	3271.1	3240.7	3184.1	3101.8	3004.4	2880.7	2759.3
27.5°	3003.9	3023.1	3039.9	3067.5	3104.2	3123.4	3125.9	3084.1	2999.1	2880.0	2757.9
30°	2736.9	2752.9	2804.8	2872.7	2925.4	2973.3	3014.8	3026.0	2978.1	2871.1	2742.5
32.5°	2440.6	2462.3	2514.2	2587.2	2675.0	2756.1	2849.4	2896.9	2895.7	2831.5	2712.5
35°	2015.2	2031.2	2079.1	2155.7	2261.1	2381.7	2529.4	2644.3	2722.6	2717.0	2644.3
37.5°	1625.2	1643.3	1691.7	1755.2	1857.4	2006.7	2149.6	2308.0	2452.7	2534.0	2509.7
40°	1413.2	1414.0	1461.1	1526.6	1622.4	1752.5	1908.2	2083.8	2245.1	2376.9	2402.4
42.5°	1245.8	1246.0	1277.1	1347.7	1416.7	1539.2	1687.8	1862.2	2051.0	2203.1	2270.8
45°	1029.9	1037.1	1062.7	1105.0	1159.3	1263.1	1382.0	1544.1	1755.7	1936.1	2048.7
47.5°	872.2	882.7	899.0	933.5	976.8	1045.9	1144.3	1289.9	1462.0	1660.5	1820.7
50°	790.4	792.0	812.8	831.9	869.5	924.6	1010.8	1132.1	1290.2	1481.0	1659.1
52.5°	720.2	719.8	732.3	756.6	787.1	830.0	899.6	1010.1	1150.3	1321.4	1505.2
55°	614.8	618.8	628.3	647.5	670.7	701.0	756.1	839.1	949.3	1095.4	1262.3
57.5°	534.6	536.7	544.2	552.3	573.6	595.6	637.0	694.6	787.6	907.2	1062.7
60°	482.2	483.0	485.4	497.4	514.2	534.9	562.9	611.6	689.8	799.2	922.2
62.5°	431.1	432.6	436.3	445.0	458.0	472.3	501.6	540.7	605.5	698.9	809.7
65°	359.3	360.1	365.7	368.9	379.2	392.0	413.6	439.9	484.6	562.9	646.7
67.5°	300.2	300.2	300.5	304.8	312.0	320.5	333.4	354.5	388.2	436.3	510.2
70°	261.9	261.9	263.5	265.9	269.9	277.0	284.2	300.2	325.0	364.1	420.8
72.5°	226.1	226.7	228.3	228.8	230.9	236.8	242.1	252.3	270.7	300.2	346.0
75°	166.1	168.5	172.5	175.7	179.6	178.8	184.4	190.8	196.4	214.0	240.3
77.5°	123.6	122.3	122.8	125.5	126.0	126.8	130.8	135.7	139.9	148.2	157.6
80°	94.2	94.2	96.6	97.4	96.6	97.4	101.4	103.8	105.4	108.6	117.4
82.5°	71.2	72.5	71.7	72.5	73.0	73.8	77.1	77.6	79.2	80.5	84.2
85°	39.9	40.7	41.5	39.9	39.9	39.9	41.5	42.3	43.9	43.1	44.7
87.5°	21.0	20.3	20.8	20.7	21.2	20.4	20.7	21.7	20.1	20.4	20.0
90°	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7	27.1	25.6	23.5
92.5°	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9	46.9	46.0	44.6
95°	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8	89.1	88.3	86.5
97.5°	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5	140.6	139.6	137.5
100°	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8	178.3	177.8	175.4
102.5°	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2	217.5	216.8	214.7
105°	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1	277.3	276.5	275.5
107.5°	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8	342.1	341.3	341.2
110°	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8	386.4	386.9	387.1



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2	432.3	432.4	432.9
115°	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7	504.0	504.2	504.7
117.5°	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4	573.3	574.2	574.5
120°	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0	620.3	621.6	622.3
122.5°	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3	667.2	668.0	668.4
125°	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5	736.1	736.6	736.8
127.5°	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8	802.3	802.8	803.2
130°	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2	848.8	849.3	849.3
132.5°	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9	892.4	893.0	893.2
135°	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5	958.0	958.5	958.5
137.5°	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8	1021.5	1022.1	1021.7
140°	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5	1062.8	1063.0	1063.0
142.5°	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0	1102.0	1102.1	1102.3
145°	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5
147.5°	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1	1215.3	1215.5	1215.7
150°	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8	1280.2	1279.6	1279.4
155°	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3	1323.5
157.5°	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6	1363.8	1363.0	1363.1
160°	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7	1388.0	1387.2	1387.4
162.5°	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4	1409.0	1407.6	1407.9
165°	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1	1437.5	1436.0	1436.5
167.5°	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2	1461.7	1460.1	1460.1
170°	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3	1474.7	1473.2	1472.9
172.5°	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0	1484.2	1482.5	1482.4
175°	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9	1493.2
177.5°	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3	1500.9	1499.4	1499.4
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2041.7	2032.8	2028.3	2018.1	2005.9	1999.5	1993.8	1985.5	1974.6	1963.1	1954.8
5°	2145.3	2126.2	2102.2	2073.5	2047.9	2023.2	2001.6	1980.1	1955.3	1929.8	1904.2
7.5°	2251.7	2214.0	2173.3	2126.2	2080.3	2038.7	2000.3	1963.6	1922.1	1884.9	1851.0
10°	2325.8	2274.7	2218.0	2158.1	2098.2	2046.3	1995.2	1948.9	1897.8	1852.3	1814.0
12.5°	2385.8	2325.8	2257.6	2183.0	2111.0	2048.2	1989.5	1929.1	1871.0	1821.7	1770.6
15°	2485.4	2403.2	2311.4	2222.0	2128.6	2043.1	1964.1	1893.8	1827.6	1758.1	1709.4
17.5°	2554.0	2456.4	2344.8	2237.3	2127.0	2026.2	1935.0	1851.4	1774.9	1704.0	1646.0
20°	2594.8	2487.0	2363.3	2241.1	2117.4	2009.6	1911.4	1818.8	1739.7	1663.1	1603.2
22.5°	2617.8	2498.5	2363.3	2235.4	2107.2	1990.4	1882.6	1786.2	1700.1	1623.5	1557.2
25°	2625.2	2497.4	2359.3	2212.4	2071.9	1948.1	1836.3	1731.7	1635.9	1559.3	1489.0
27.5°	2615.0	2464.5	2323.1	2172.3	2027.3	1896.9	1779.5	1669.6	1573.7	1491.4	1419.4
30°	2599.6	2438.3	2286.6	2130.2	1983.2	1857.9	1734.1	1628.8	1529.0	1443.5	1370.9
32.5°	2566.4	2406.4	2243.2	2082.9	1934.1	1804.9	1687.5	1581.5	1483.6	1396.3	1319.1
35°	2500.6	2338.5	2161.3	1996.8	1850.7	1716.6	1606.4	1504.2	1410.8	1317.4	1235.9
37.5°	2413.9	2248.3	2072.0	1891.9	1745.6	1619.0	1517.9	1422.0	1330.8	1245.5	1155.3
40°	2332.2	2181.3	1999.2	1820.4	1670.3	1548.1	1454.7	1367.7	1275.9	1191.2	1101.0
42.5°	2233.2	2104.6	1920.7	1741.2	1593.0	1475.3	1388.3	1303.2	1219.7	1137.6	1043.5
45°	2067.9	1970.5	1798.0	1625.6	1476.3	1359.7	1279.9	1204.8	1131.3	1053.1	964.5
47.5°	1878.5	1812.5	1663.7	1487.1	1349.0	1244.1	1167.0	1105.6	1043.5	965.3	887.5
50°	1746.9	1704.6	1560.9	1399.6	1267.9	1171.3	1092.2	1034.7	982.8	907.8	838.3
52.5°	1606.4	1583.9	1462.5	1308.3	1181.0	1086.3	1018.8	967.0	914.5	852.2	787.2
55°	1392.4	1404.4	1301.4	1168.1	1048.3	968.5	907.0	863.9	819.2	766.5	716.2
57.5°	1173.7	1217.4	1148.3	1031.2	919.0	845.2	798.9	762.6	725.1	681.4	638.4
60°	1042.7	1079.4	1040.3	937.3	839.1	770.5	727.4	699.4	661.9	622.0	589.2
62.5°	915.0	954.3	931.1	847.9	756.7	697.7	659.6	633.6	605.7	570.9	536.9
65°	754.5	780.0	768.9	711.4	646.7	596.4	561.3	542.1	516.6	491.0	460.7
67.5°	577.9	627.2	620.7	590.2	534.3	495.0	472.0	455.1	431.8	412.8	392.2
70°	475.1	520.6	519.8	495.0	464.7	427.9	412.0	397.6	376.8	358.5	341.7
72.5°	388.8	430.5	436.7	417.7	397.0	369.2	353.9	344.0	323.8	311.2	297.6
75°	272.3	302.6	310.6	310.6	301.0	286.6	273.1	266.7	252.3	241.1	233.1
77.5°	178.5	197.7	210.1	213.0	214.5	209.7	198.5	194.0	183.0	179.0	171.3
80°	126.1	138.9	153.3	158.1	162.1	160.5	155.7	152.5	142.1	138.1	134.9
82.5°	87.2	94.2	106.0	116.6	115.4	119.6	115.4	112.9	105.1	103.6	100.4
85°	45.5	46.3	47.9	55.1	59.1	60.7	61.5	59.9	57.5	57.5	51.9
87.5°	19.6	18.6	19.4	18.9	19.0	21.0	22.3	22.4	21.1	19.7	18.4
90°	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5	6.3	9.2	12.0
92.5°	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9	28.1	31.4	34.6
95°	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7	72.0	74.4	76.7
97.5°	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8	123.6	125.5	127.3
100°	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7	163.7	164.7	165.7
102.5°	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4	205.8	206.2	206.6
105°	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7	271.0	271.2	271.5
107.5°	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2	339.6	339.9	340.2
110°	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7	386.2	386.7	387.3



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0	434.2	434.3	434.4
115°	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
117.5°	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9	575.1	575.3	575.5
120°	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4	621.4	622.5	623.5
122.5°	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8	668.2	668.6	669.0
125°	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7	737.7	737.7	737.7
127.5°	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2	802.0	802.7	803.5
130°	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8	846.6	847.3	848.1
132.5°	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3	891.9	892.5	893.0
135°	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5	953.1	954.6	956.2
137.5°	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0	1017.8	1018.5	1019.2
140°	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7	1061.2	1061.8	1062.3
142.5°	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7	1101.2	1101.7	1102.2
145°	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0	1157.0	1158.1	1159.1
147.5°	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8	1212.1	1213.3	1214.5
150°	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3	1245.3	1246.4	1247.4
152.5°	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9	1276.5	1277.1	1277.7
155°	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3	1364.9	1364.4	1364.0
160°	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5	1389.3	1389.0	1388.7
162.5°	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8	1411.1	1410.5	1409.8
165°	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8	1441.0	1440.2	1439.5
167.5°	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8	1463.7	1462.6	1461.5
170°	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8	1476.5	1475.2	1473.9
172.5°	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1	1486.0	1484.9	1483.8
175°	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9	1498.6	1497.3	1496.0
177.5°	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1	1503.0	1502.0	1501.0
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1945.9	1939.5	1931.2	1921.6	1910.1	1899.9	1895.4	1899.3	1901.2	1896.1	1895.4
5°	1886.6	1866.7	1850.7	1826.8	1807.6	1791.6	1780.5	1775.7	1777.3	1764.5	1761.3
7.5°	1820.1	1796.4	1770.2	1741.8	1715.3	1691.8	1679.5	1672.8	1659.3	1653.5	1643.8
10°	1777.3	1745.3	1719.8	1686.2	1655.9	1628.0	1614.4	1603.2	1589.6	1583.2	1569.7
12.5°	1733.2	1696.1	1668.0	1633.2	1602.2	1568.6	1555.6	1534.9	1513.6	1500.2	1482.8
15°	1671.1	1626.4	1592.0	1550.5	1513.8	1475.5	1441.1	1402.8	1388.4	1358.1	1340.5
17.5°	1598.4	1553.1	1510.6	1454.9	1398.2	1350.6	1314.0	1277.3	1255.3	1235.9	1227.0
20°	1550.5	1509.0	1449.9	1385.2	1322.2	1269.5	1239.9	1216.0	1192.0	1178.5	1168.9
22.5°	1505.2	1452.1	1383.5	1313.7	1250.6	1209.4	1184.4	1159.8	1140.3	1127.4	1114.6
25°	1429.2	1359.7	1287.0	1207.2	1164.1	1128.2	1101.0	1081.0	1069.1	1052.3	1045.9
27.5°	1351.1	1266.9	1186.8	1133.1	1088.2	1055.3	1031.7	1016.7	1001.5	990.8	982.5
30°	1291.0	1205.6	1133.7	1082.6	1037.1	1010.0	990.8	973.3	961.3	952.5	946.1
32.5°	1231.6	1146.2	1085.8	1030.9	995.0	968.5	948.0	934.9	925.5	914.2	910.3
35°	1145.7	1069.9	1017.2	967.7	930.9	907.0	891.0	877.5	869.5	866.3	863.9
37.5°	1063.2	1001.0	944.4	903.8	871.1	852.2	833.4	826.7	821.2	815.5	818.1
40°	1010.8	952.5	902.2	859.1	832.7	812.0	800.8	792.8	788.0	788.0	788.0
42.5°	965.4	908.4	859.4	820.8	794.4	776.9	764.4	757.7	756.1	755.5	759.3
45°	895.0	842.3	792.8	760.9	738.5	721.0	713.8	708.2	708.2	711.4	712.2
47.5°	825.2	775.9	736.1	700.4	679.9	668.9	662.7	659.8	660.1	663.3	667.0
50°	782.4	733.7	694.6	662.7	643.5	633.1	627.5	626.0	627.5	627.5	633.1
52.5°	735.8	692.2	653.7	626.9	605.2	595.5	592.4	590.2	591.1	593.7	596.1
55°	667.5	628.3	591.6	566.1	550.1	543.7	536.5	537.3	535.7	537.3	537.3
57.5°	599.0	563.8	529.7	509.4	495.3	486.1	478.2	480.5	478.1	477.8	476.5
60°	554.9	516.6	489.4	471.1	455.1	447.1	439.9	441.5	439.1	437.5	434.3
62.5°	507.0	475.1	449.2	431.5	418.7	409.4	402.2	400.6	395.1	389.6	382.6
65°	437.5	411.2	388.0	371.3	359.3	352.1	346.5	341.7	329.7	317.0	310.6
67.5°	370.0	351.0	329.4	315.2	305.5	296.1	285.4	277.2	266.0	259.0	255.0
70°	326.5	308.2	289.8	276.2	265.9	257.1	245.1	239.5	231.5	228.3	224.4
72.5°	285.0	267.9	250.9	238.6	227.5	220.7	211.3	205.7	202.2	200.9	196.9
75°	222.0	208.4	195.6	184.4	175.7	170.9	166.9	162.9	161.3	154.1	150.1
77.5°	161.9	153.0	145.0	137.0	130.8	127.6	119.9	115.3	112.6	109.2	108.4
80°	126.1	119.8	111.8	107.0	98.2	95.0	91.8	91.0	90.2	89.4	88.6
82.5°	94.9	88.5	80.5	77.6	75.2	73.3	71.4	70.6	69.8	70.3	70.1
85°	47.9	44.7	44.7	43.9	43.1	42.3	41.5	41.5	40.7	41.5	40.7
87.5°	18.9	18.8	19.2	18.3	19.4	19.8	19.5	19.8	20.7	19.8	20.0
90°	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7	30.2	31.8	32.8
92.5°	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9	48.8	49.7	50.3
95°	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8	90.6	91.4	91.8
97.5°	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5	142.4	143.4	143.8
100°	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8	179.3	179.8	180.1
102.5°	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2	219.0	219.7	220.1
105°	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1	278.8	279.6	280.4
107.5°	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8	343.5	344.2	344.6
110°	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8	385.3	384.8	384.9



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2	432.1	432.0	432.0
115°	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7	503.4	503.2	502.9
117.5°	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4	571.5	570.6	570.0
120°	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0	617.7	616.4	616.0
122.5°	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3	665.4	664.5	663.6
125°	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5	735.0	734.5	734.0
127.5°	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8	801.3	800.7	800.3
130°	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2	847.7	847.2	846.4
132.5°	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9	891.4	890.9	890.4
135°	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5	956.9	956.4	955.8
137.5°	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8	1020.1	1019.5	1019.2
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5	1062.3	1062.0	1061.8
142.5°	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0	1101.9	1101.9	1101.8
145°	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.2
147.5°	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1	1214.9	1214.6	1214.4
150°	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.8
152.5°	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8	1281.5	1282.1	1282.1
155°	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4
157.5°	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6	1365.3	1366.1	1366.1
160°	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7	1389.5	1390.3	1390.0
162.5°	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4	1411.8	1413.2	1413.3
165°	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1	1440.6	1442.2	1442.4
167.5°	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2	1464.8	1466.3	1466.3
170°	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3	1477.8	1479.4	1479.2
172.5°	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0	1487.7	1489.5	1489.5
175°	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1
177.5°	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3	1503.8	1505.2	1505.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1891.6	1892.9	1888.4	1887.1	1888.4	1892.9	1891.6	1895.4	1896.1	1901.2	1899.3
5°	1754.9	1753.3	1749.3	1750.1	1749.3	1753.3	1754.9	1761.3	1764.5	1777.3	1775.7
7.5°	1638.0	1631.8	1633.5	1627.2	1633.5	1631.8	1638.0	1643.8	1653.5	1659.3	1672.8
10°	1566.5	1557.7	1550.5	1544.1	1550.5	1557.7	1566.5	1569.7	1583.2	1589.6	1603.2
12.5°	1468.8	1461.2	1451.5	1453.4	1451.5	1461.2	1468.8	1482.8	1500.2	1513.6	1534.9
15°	1330.1	1318.2	1299.0	1301.4	1299.0	1318.2	1330.1	1340.5	1358.1	1388.4	1402.8
17.5°	1212.8	1212.9	1204.2	1206.2	1204.2	1212.9	1212.8	1227.0	1235.9	1255.3	1277.3
20°	1152.1	1146.5	1147.3	1144.9	1147.3	1146.5	1152.1	1168.9	1178.5	1192.0	1216.0
22.5°	1109.9	1103.1	1097.5	1092.5	1097.5	1103.1	1109.9	1114.6	1127.4	1140.3	1159.8
25°	1038.7	1033.9	1026.8	1025.2	1026.8	1033.9	1038.7	1045.9	1052.3	1069.1	1081.0
27.5°	976.1	975.2	972.3	968.6	972.3	975.2	976.1	982.5	990.8	1001.5	1016.7
30°	939.7	938.1	936.5	934.1	936.5	938.1	939.7	946.1	952.5	961.3	973.3
32.5°	907.2	906.2	904.6	904.8	904.6	906.2	907.2	910.3	914.2	925.5	934.9
35°	860.7	859.9	858.3	857.5	858.3	859.9	860.7	863.9	866.3	869.5	877.5
37.5°	817.3	819.3	818.4	818.2	818.4	819.3	817.3	818.1	815.5	821.2	826.7
40°	787.2	788.0	789.6	788.8	789.6	788.0	787.2	788.0	788.0	788.0	792.8
42.5°	762.3	762.5	764.7	762.0	764.7	762.5	762.3	759.3	755.5	756.1	757.7
45°	717.8	722.6	721.8	721.8	721.8	722.6	717.8	712.2	711.4	708.2	708.2
47.5°	669.1	673.2	674.3	674.2	674.3	673.2	669.1	667.0	663.3	660.1	659.8
50°	637.1	635.5	637.9	637.1	637.9	635.5	637.1	633.1	627.5	627.5	626.0
52.5°	598.2	598.5	598.3	597.5	598.3	598.5	598.2	596.1	593.7	591.1	590.2
55°	538.1	538.9	537.3	538.1	537.3	538.9	538.1	537.3	537.3	535.7	537.3
57.5°	473.0	469.1	470.7	468.8	470.7	469.1	473.0	476.5	477.8	478.1	480.5
60°	426.4	420.0	418.4	415.2	418.4	420.0	426.4	434.3	437.5	439.1	441.5
62.5°	374.0	369.5	364.1	366.6	364.1	369.5	374.0	382.6	389.6	395.1	400.6
65°	304.2	301.0	298.6	301.8	298.6	301.0	304.2	310.6	317.0	329.7	341.7
67.5°	251.8	250.1	250.1	248.5	250.1	250.1	251.8	255.0	259.0	266.0	277.2
70°	224.4	222.0	222.0	220.4	222.0	222.0	224.4	224.4	228.3	231.5	239.5
72.5°	196.2	193.9	194.5	193.5	194.5	193.9	196.2	196.9	200.9	202.2	205.7
75°	145.3	141.3	141.3	142.1	141.3	141.3	145.3	150.1	154.1	161.3	162.9
77.5°	108.4	107.6	108.7	107.3	108.7	107.6	108.4	108.4	109.2	112.6	115.3
80°	88.6	87.8	87.0	89.4	87.0	87.8	88.6	88.6	89.4	90.2	91.0
82.5°	68.8	68.7	68.5	71.5	68.5	68.7	68.8	70.1	70.3	69.8	70.6
85°	41.5	39.9	41.5	39.9	41.5	39.9	41.5	40.7	41.5	40.7	41.5
87.5°	21.4	20.8	20.3	21.0	20.3	20.8	21.4	20.0	19.8	20.7	19.8
90°	33.3	33.8	34.3	34.9	34.3	33.8	33.3	32.8	31.8	30.2	28.7
92.5°	50.7	51.0	51.3	51.6	51.3	51.0	50.7	50.3	49.7	48.8	47.9
95°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.4	90.6	89.8
97.5°	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.8	143.4	142.4	141.5
100°	180.1	180.1	180.1	180.1	180.1	180.1	180.1	180.1	179.8	179.3	178.8
102.5°	220.4	220.6	220.8	221.0	220.8	220.6	220.4	220.1	219.7	219.0	218.2
105°	281.2	281.9	282.7	283.5	282.7	281.9	281.2	280.4	279.6	278.8	278.1
107.5°	344.5	344.5	344.4	344.4	344.4	344.5	344.5	344.6	344.2	343.5	342.8
110°	385.7	386.5	387.3	388.0	387.3	386.5	385.7	384.9	384.8	385.3	385.8



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	432.2	432.3	432.5	432.7	432.5	432.3	432.2	432.0	432.0	432.1	432.2
115°	502.7	502.4	502.2	501.9	502.2	502.4	502.7	502.9	503.2	503.4	503.7
117.5°	569.4	568.9	568.4	567.9	568.4	568.9	569.4	570.0	570.6	571.5	572.4
120°	616.5	617.0	617.6	618.1	617.6	617.0	616.5	616.0	616.4	617.7	619.0
122.5°	662.7	661.8	660.8	659.9	660.8	661.8	662.7	663.6	664.5	665.4	666.3
125°	733.5	733.0	732.4	731.9	732.4	733.0	733.5	734.0	734.5	735.0	735.5
127.5°	799.9	799.4	799.0	798.6	799.0	799.4	799.9	800.3	800.7	801.3	801.8
130°	845.4	844.4	843.3	842.3	843.3	844.4	845.4	846.4	847.2	847.7	848.2
132.5°	890.0	889.6	889.2	888.8	889.2	889.6	890.0	890.4	890.9	891.4	891.9
135°	955.0	954.2	953.4	952.7	953.4	954.2	955.0	955.8	956.4	956.9	957.5
137.5°	1019.4	1019.5	1019.7	1019.8	1019.7	1019.5	1019.4	1019.2	1019.5	1020.1	1020.8
140°	1061.5	1061.2	1061.0	1060.7	1061.0	1061.2	1061.5	1061.8	1062.0	1062.3	1062.5
142.5°	1101.8	1101.7	1101.7	1101.6	1101.7	1101.7	1101.8	1101.8	1101.9	1101.9	1102.0
145°	1159.5	1158.7	1157.9	1157.2	1157.9	1158.7	1159.5	1160.2	1160.8	1161.0	1161.3
147.5°	1214.2	1213.9	1213.6	1213.4	1213.6	1213.9	1214.2	1214.4	1214.6	1214.9	1215.1
150°	1248.5	1248.3	1248.0	1247.8	1248.0	1248.3	1248.5	1248.8	1248.9	1248.9	1248.9
152.5°	1281.4	1280.7	1280.0	1279.4	1280.0	1280.7	1281.4	1282.1	1282.1	1281.5	1280.8
155°	1326.4	1325.4	1324.3	1323.3	1324.3	1325.4	1326.4	1327.4	1327.4	1326.4	1325.4
157.5°	1365.2	1364.3	1363.4	1362.6	1363.4	1364.3	1365.2	1366.1	1366.1	1365.3	1364.6
160°	1388.7	1387.4	1386.2	1384.9	1386.2	1387.4	1388.7	1390.0	1390.3	1389.5	1388.7
162.5°	1412.0	1410.7	1409.4	1408.1	1409.4	1410.7	1412.0	1413.3	1413.2	1411.8	1410.4
165°	1441.4	1440.4	1439.3	1438.3	1439.3	1440.4	1441.4	1442.4	1442.2	1440.6	1439.1
167.5°	1464.7	1463.1	1461.5	1459.9	1461.5	1463.1	1464.7	1466.3	1466.3	1464.8	1463.2
170°	1477.4	1475.6	1473.8	1472.0	1473.8	1475.6	1477.4	1479.2	1479.4	1477.8	1476.3
172.5°	1487.6	1485.8	1484.0	1482.2	1484.0	1485.8	1487.6	1489.5	1489.5	1487.7	1486.0
175°	1498.3	1496.5	1494.7	1492.9	1494.7	1496.5	1498.3	1500.1	1500.1	1498.3	1496.5
177.5°	1503.4	1501.8	1500.1	1498.5	1500.1	1501.8	1503.4	1505.1	1505.2	1503.8	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1895.4	1899.9	1910.1	1921.6	1931.2	1939.5	1945.9	1954.8	1963.1	1974.6	1985.5
5°	1780.5	1791.6	1807.6	1826.8	1850.7	1866.7	1886.6	1904.2	1929.8	1955.3	1980.1
7.5°	1679.5	1691.8	1715.3	1741.8	1770.2	1796.4	1820.1	1851.0	1884.9	1922.1	1963.6
10°	1614.4	1628.0	1655.9	1686.2	1719.8	1745.3	1777.3	1814.0	1852.3	1897.8	1948.9
12.5°	1555.6	1568.6	1602.2	1633.2	1668.0	1696.1	1733.2	1770.6	1821.7	1871.0	1929.1
15°	1441.1	1475.5	1513.8	1550.5	1592.0	1626.4	1671.1	1709.4	1758.1	1827.6	1893.8
17.5°	1314.0	1350.6	1398.2	1454.9	1510.6	1553.1	1598.4	1646.0	1704.0	1774.9	1851.4
20°	1239.9	1269.5	1322.2	1385.2	1449.9	1509.0	1550.5	1603.2	1663.1	1739.7	1818.8
22.5°	1184.4	1209.4	1250.6	1313.7	1383.5	1452.1	1505.2	1557.2	1623.5	1700.1	1786.2
25°	1101.0	1128.2	1164.1	1207.2	1287.0	1359.7	1429.2	1489.0	1559.3	1635.9	1731.7
27.5°	1031.7	1055.3	1088.2	1133.1	1186.8	1266.9	1351.1	1419.4	1491.4	1573.7	1669.6
30°	990.8	1010.0	1037.1	1082.6	1133.7	1205.6	1291.0	1370.9	1443.5	1529.0	1628.8
32.5°	948.0	968.5	995.0	1030.9	1085.8	1146.2	1231.6	1319.1	1396.3	1483.6	1581.5
35°	891.0	907.0	930.9	967.7	1017.2	1069.9	1145.7	1235.9	1317.4	1410.8	1504.2
37.5°	833.4	852.2	871.1	903.8	944.4	1001.0	1063.2	1155.3	1245.5	1330.8	1422.0
40°	800.8	812.0	832.7	859.1	902.2	952.5	1010.8	1101.0	1191.2	1275.9	1367.7
42.5°	764.4	776.9	794.4	820.8	859.4	908.4	965.4	1043.5	1137.6	1219.7	1303.2
45°	713.8	721.0	738.5	760.9	792.8	842.3	895.0	964.5	1053.1	1131.3	1204.8
47.5°	662.7	668.9	679.9	700.4	736.1	775.9	825.2	887.5	965.3	1043.5	1105.6
50°	627.5	633.1	643.5	662.7	694.6	733.7	782.4	838.3	907.8	982.8	1034.7
52.5°	592.4	595.5	605.2	626.9	653.7	692.2	735.8	787.2	852.2	914.5	967.0
55°	536.5	543.7	550.1	566.1	591.6	628.3	667.5	716.2	766.5	819.2	863.9
57.5°	478.2	486.1	495.3	509.4	529.7	563.8	599.0	638.4	681.4	725.1	762.6
60°	439.9	447.1	455.1	471.1	489.4	516.6	554.9	589.2	622.0	661.9	699.4
62.5°	402.2	409.4	418.7	431.5	449.2	475.1	507.0	536.9	570.9	605.7	633.6
65°	346.5	352.1	359.3	371.3	388.0	411.2	437.5	460.7	491.0	516.6	542.1
67.5°	285.4	296.1	305.5	315.2	329.4	351.0	370.0	392.2	412.8	431.8	455.1
70°	245.1	257.1	265.9	276.2	289.8	308.2	326.5	341.7	358.5	376.8	397.6
72.5°	211.3	220.7	227.5	238.6	250.9	267.9	285.0	297.6	311.2	323.8	344.0
75°	166.9	170.9	175.7	184.4	195.6	208.4	222.0	233.1	241.1	252.3	266.7
77.5°	119.9	127.6	130.8	137.0	145.0	153.0	161.9	171.3	179.0	183.0	194.0
80°	91.8	95.0	98.2	107.0	111.8	119.8	126.1	134.9	138.1	142.1	152.5
82.5°	71.4	73.3	75.2	77.6	80.5	88.5	94.9	100.4	103.6	105.1	112.9
85°	41.5	42.3	43.1	43.9	44.7	44.7	47.9	51.9	57.5	57.5	59.9
87.5°	19.5	19.8	19.4	18.3	19.2	18.8	18.9	18.4	19.7	21.1	22.4
90°	27.1	25.6	23.5	21.4	19.4	17.3	14.8	12.0	9.2	6.3	3.5
92.5°	46.9	46.0	44.6	43.1	41.7	40.2	37.9	34.6	31.4	28.1	24.9
95°	89.1	88.3	86.5	84.7	82.9	81.1	79.0	76.7	74.4	72.0	69.7
97.5°	140.6	139.6	137.5	135.4	133.3	131.2	129.2	127.3	125.5	123.6	121.8
100°	178.3	177.8	175.4	173.1	170.8	168.5	166.8	165.7	164.7	163.7	162.7
102.5°	217.5	216.8	214.7	212.6	210.4	208.3	207.1	206.6	206.2	205.8	205.4
105°	277.3	276.5	275.5	274.4	273.4	272.4	271.7	271.5	271.2	271.0	270.7
107.5°	342.1	341.3	341.2	341.0	340.9	340.7	340.5	340.2	339.9	339.6	339.2
110°	386.4	386.9	387.1	387.4	387.7	387.9	387.8	387.3	386.7	386.2	385.7



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	432.3	432.4	432.9	433.4	433.8	434.3	434.5	434.4	434.3	434.2	434.0
115°	504.0	504.2	504.7	505.3	505.8	506.3	506.5	506.5	506.5	506.5	506.5
117.5°	573.3	574.2	574.5	574.9	575.2	575.6	575.7	575.5	575.3	575.1	574.9
120°	620.3	621.6	622.3	623.1	623.9	624.7	624.5	623.5	622.5	621.4	620.4
122.5°	667.2	668.0	668.4	668.8	669.1	669.5	669.5	669.0	668.6	668.2	667.8
125°	736.1	736.6	736.8	737.1	737.4	737.6	737.7	737.7	737.7	737.7	737.7
127.5°	802.3	802.8	803.2	803.6	804.0	804.5	804.3	803.5	802.7	802.0	801.2
130°	848.8	849.3	849.3	849.3	849.3	849.3	848.9	848.1	847.3	846.6	845.8
132.5°	892.4	893.0	893.2	893.4	893.6	893.8	893.6	893.0	892.5	891.9	891.3
135°	958.0	958.5	958.5	958.5	958.5	958.5	957.7	956.2	954.6	953.1	951.5
137.5°	1021.5	1022.1	1021.7	1021.3	1020.9	1020.5	1019.9	1019.2	1018.5	1017.8	1017.0
140°	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.3	1061.8	1061.2	1060.7
142.5°	1102.0	1102.1	1102.3	1102.5	1102.7	1102.9	1102.8	1102.2	1101.7	1101.2	1100.7
145°	1161.5	1161.8	1161.5	1161.3	1161.0	1160.8	1160.1	1159.1	1158.1	1157.0	1156.0
147.5°	1215.3	1215.5	1215.7	1215.9	1216.1	1216.3	1215.8	1214.5	1213.3	1212.1	1210.8
150°	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.4	1247.4	1246.4	1245.3	1244.3
152.5°	1280.2	1279.6	1279.4	1279.2	1279.0	1278.8	1278.4	1277.7	1277.1	1276.5	1275.9
155°	1324.3	1323.3	1323.5	1323.8	1324.1	1324.3	1324.4	1324.4	1324.4	1324.4	1324.4
157.5°	1363.8	1363.0	1363.1	1363.1	1363.2	1363.2	1363.5	1364.0	1364.4	1364.9	1365.3
160°	1388.0	1387.2	1387.4	1387.7	1388.0	1388.2	1388.5	1388.7	1389.0	1389.3	1389.5
162.5°	1409.0	1407.6	1407.9	1408.2	1408.4	1408.7	1409.1	1409.8	1410.5	1411.1	1411.8
165°	1437.5	1436.0	1436.5	1437.0	1437.5	1438.0	1438.7	1439.5	1440.2	1441.0	1441.8
167.5°	1461.7	1460.1	1460.1	1460.0	1460.0	1459.9	1460.5	1461.5	1462.6	1463.7	1464.8
170°	1474.7	1473.2	1472.9	1472.6	1472.4	1472.1	1472.6	1473.9	1475.2	1476.5	1477.8
172.5°	1484.2	1482.5	1482.4	1482.4	1482.3	1482.2	1482.8	1483.8	1484.9	1486.0	1487.1
175°	1494.7	1492.9	1493.2	1493.4	1493.7	1493.9	1494.7	1496.0	1497.3	1498.6	1499.9
177.5°	1500.9	1499.4	1499.4	1499.4	1499.4	1499.4	1499.9	1501.0	1502.0	1503.0	1504.1
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010
 CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	1993.8	1999.5	2005.9	2018.1	2028.3	2032.8	2041.7	2048.1	2046.2	2055.1	2070.4
5°	2001.6	2023.2	2047.9	2073.5	2102.2	2126.2	2145.3	2164.5	2179.7	2198.0	2225.2
7.5°	2000.3	2038.7	2080.3	2126.2	2173.3	2214.0	2251.7	2290.0	2324.0	2361.2	2409.9
10°	1995.2	2046.3	2098.2	2158.1	2218.0	2274.7	2325.8	2373.7	2419.2	2467.9	2529.4
12.5°	1989.5	2048.2	2111.0	2183.0	2257.6	2325.8	2385.8	2454.8	2511.8	2574.6	2645.6
15°	1964.1	2043.1	2128.6	2222.0	2311.4	2403.2	2485.4	2570.1	2649.1	2724.2	2813.6
17.5°	1935.0	2026.2	2127.0	2237.3	2344.8	2456.4	2554.0	2660.6	2741.4	2842.2	2925.2
20°	1911.4	2009.6	2117.4	2241.1	2363.3	2487.0	2594.8	2703.4	2794.4	2895.8	3001.2
22.5°	1882.6	1990.4	2107.2	2235.4	2363.3	2498.5	2617.8	2725.8	2838.5	2952.7	3061.3
25°	1836.3	1948.1	2071.9	2212.4	2359.3	2497.4	2625.2	2759.3	2880.7	3004.4	3101.8
27.5°	1779.5	1896.9	2027.3	2172.3	2323.1	2464.5	2615.0	2757.9	2880.0	2999.1	3084.1
30°	1734.1	1857.9	1983.2	2130.2	2286.6	2438.3	2599.6	2742.5	2871.1	2978.1	3026.0
32.5°	1687.5	1804.9	1934.1	2082.9	2243.2	2406.4	2566.4	2712.5	2831.5	2895.7	2896.9
35°	1606.4	1716.6	1850.7	1996.8	2161.3	2338.5	2500.6	2644.3	2717.0	2722.6	2644.3
37.5°	1517.9	1619.0	1745.6	1891.9	2072.0	2248.3	2413.9	2509.7	2534.0	2452.7	2308.0
40°	1454.7	1548.1	1670.3	1820.4	1999.2	2181.3	2332.2	2402.4	2376.9	2245.1	2083.8
42.5°	1388.3	1475.3	1593.0	1741.2	1920.7	2104.6	2233.2	2270.8	2203.1	2051.0	1862.2
45°	1279.9	1359.7	1476.3	1625.6	1798.0	1970.5	2067.9	2048.7	1936.1	1755.7	1544.1
47.5°	1167.0	1244.1	1349.0	1487.1	1663.7	1812.5	1878.5	1820.7	1660.5	1462.0	1289.9
50°	1092.2	1171.3	1267.9	1399.6	1560.9	1704.6	1746.9	1659.1	1481.0	1290.2	1132.1
52.5°	1018.8	1086.3	1181.0	1308.3	1462.5	1583.9	1606.4	1505.2	1321.4	1150.3	1010.1
55°	907.0	968.5	1048.3	1168.1	1301.4	1404.4	1392.4	1262.3	1095.4	949.3	839.1
57.5°	798.9	845.2	919.0	1031.2	1148.3	1217.4	1173.7	1062.7	907.2	787.6	694.6
60°	727.4	770.5	839.1	937.3	1040.3	1079.4	1042.7	922.2	799.2	689.8	611.6
62.5°	659.6	697.7	756.7	847.9	931.1	954.3	915.0	809.7	698.9	605.5	540.7
65°	561.3	596.4	646.7	711.4	768.9	780.0	754.5	646.7	562.9	484.6	439.9
67.5°	472.0	495.0	534.3	590.2	620.7	627.2	577.9	510.2	436.3	388.2	354.5
70°	412.0	427.9	464.7	495.0	519.8	520.6	475.1	420.8	364.1	325.0	300.2
72.5°	353.9	369.2	397.0	417.7	436.7	430.5	388.8	346.0	300.2	270.7	252.3
75°	273.1	286.6	301.0	310.6	310.6	302.6	272.3	240.3	214.0	196.4	190.8
77.5°	198.5	209.7	214.5	213.0	210.1	197.7	178.5	157.6	148.2	139.9	135.7
80°	155.7	160.5	162.1	158.1	153.3	138.9	126.1	117.4	108.6	105.4	103.8
82.5°	115.4	119.6	115.4	116.6	106.0	94.2	87.2	84.2	80.5	79.2	77.6
85°	61.5	60.7	59.1	55.1	47.9	46.3	45.5	44.7	43.1	43.9	42.3
87.5°	22.3	21.0	19.0	18.9	19.4	18.6	19.6	20.0	20.4	20.1	21.7
90°	6.3	9.2	12.0	14.8	17.3	19.4	21.4	23.5	25.6	27.1	28.7
92.5°	28.1	31.4	34.6	37.9	40.2	41.7	43.1	44.6	46.0	46.9	47.9
95°	72.0	74.4	76.7	79.0	81.1	82.9	84.7	86.5	88.3	89.1	89.8
97.5°	123.6	125.5	127.3	129.2	131.2	133.3	135.4	137.5	139.6	140.6	141.5
100°	163.7	164.7	165.7	166.8	168.5	170.8	173.1	175.4	177.8	178.3	178.8
102.5°	205.8	206.2	206.6	207.1	208.3	210.4	212.6	214.7	216.8	217.5	218.2
105°	271.0	271.2	271.5	271.7	272.4	273.4	274.4	275.5	276.5	277.3	278.1
107.5°	339.6	339.9	340.2	340.5	340.7	340.9	341.0	341.2	341.3	342.1	342.8
110°	386.2	386.7	387.3	387.8	387.9	387.7	387.4	387.1	386.9	386.4	385.8



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	434.2	434.3	434.4	434.5	434.3	433.8	433.4	432.9	432.4	432.3	432.2
115°	506.5	506.5	506.5	506.5	506.3	505.8	505.3	504.7	504.2	504.0	503.7
117.5°	575.1	575.3	575.5	575.7	575.6	575.2	574.9	574.5	574.2	573.3	572.4
120°	621.4	622.5	623.5	624.5	624.7	623.9	623.1	622.3	621.6	620.3	619.0
122.5°	668.2	668.6	669.0	669.5	669.5	669.1	668.8	668.4	668.0	667.2	666.3
125°	737.7	737.7	737.7	737.7	737.6	737.4	737.1	736.8	736.6	736.1	735.5
127.5°	802.0	802.7	803.5	804.3	804.5	804.0	803.6	803.2	802.8	802.3	801.8
130°	846.6	847.3	848.1	848.9	849.3	849.3	849.3	849.3	849.3	848.8	848.2
132.5°	891.9	892.5	893.0	893.6	893.8	893.6	893.4	893.2	893.0	892.4	891.9
135°	953.1	954.6	956.2	957.7	958.5	958.5	958.5	958.5	958.5	958.0	957.5
137.5°	1017.8	1018.5	1019.2	1019.9	1020.5	1020.9	1021.3	1021.7	1022.1	1021.5	1020.8
140°	1061.2	1061.8	1062.3	1062.8	1063.0	1063.0	1063.0	1063.0	1063.0	1062.8	1062.5
142.5°	1101.2	1101.7	1102.2	1102.8	1102.9	1102.7	1102.5	1102.3	1102.1	1102.0	1102.0
145°	1157.0	1158.1	1159.1	1160.1	1160.8	1161.0	1161.3	1161.5	1161.8	1161.5	1161.3
147.5°	1212.1	1213.3	1214.5	1215.8	1216.3	1216.1	1215.9	1215.7	1215.5	1215.3	1215.1
150°	1245.3	1246.4	1247.4	1248.4	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9	1248.9
152.5°	1276.5	1277.1	1277.7	1278.4	1278.8	1279.0	1279.2	1279.4	1279.6	1280.2	1280.8
155°	1324.4	1324.4	1324.4	1324.4	1324.3	1324.1	1323.8	1323.5	1323.3	1324.3	1325.4
157.5°	1364.9	1364.4	1364.0	1363.5	1363.2	1363.2	1363.1	1363.1	1363.0	1363.8	1364.6
160°	1389.3	1389.0	1388.7	1388.5	1388.2	1388.0	1387.7	1387.4	1387.2	1388.0	1388.7
162.5°	1411.1	1410.5	1409.8	1409.1	1408.7	1408.4	1408.2	1407.9	1407.6	1409.0	1410.4
165°	1441.0	1440.2	1439.5	1438.7	1438.0	1437.5	1437.0	1436.5	1436.0	1437.5	1439.1
167.5°	1463.7	1462.6	1461.5	1460.5	1459.9	1460.0	1460.0	1460.1	1460.1	1461.7	1463.2
170°	1476.5	1475.2	1473.9	1472.6	1472.1	1472.4	1472.6	1472.9	1473.2	1474.7	1476.3
172.5°	1486.0	1484.9	1483.8	1482.8	1482.2	1482.3	1482.4	1482.4	1482.5	1484.2	1486.0
175°	1498.6	1497.3	1496.0	1494.7	1493.9	1493.7	1493.4	1493.2	1492.9	1494.7	1496.5
177.5°	1503.0	1502.0	1501.0	1499.9	1499.4	1499.4	1499.4	1499.4	1499.4	1500.9	1502.3
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7	1981.7
2.5°	2078.7	2081.3	2083.2	2089.6	2090.2	2096.0	2090.2
5°	2250.7	2261.9	2279.5	2297.0	2298.6	2309.8	2289.8
7.5°	2443.6	2469.5	2485.6	2514.0	2525.2	2532.2	2520.7
10°	2576.5	2600.4	2642.7	2663.5	2684.3	2687.4	2677.9
12.5°	2704.9	2742.9	2776.2	2815.5	2814.6	2842.7	2832.4
15°	2875.9	2915.0	2961.3	3005.2	3021.2	3021.2	3034.0
17.5°	2997.9	3069.6	3117.5	3152.0	3189.6	3196.2	3191.7
20°	3080.3	3157.7	3208.8	3253.5	3279.1	3286.3	3286.3
22.5°	3141.6	3207.5	3257.4	3297.6	3318.7	3327.1	3324.6
25°	3184.1	3240.7	3271.1	3283.1	3288.6	3287.1	3271.9
27.5°	3125.9	3123.4	3104.2	3067.5	3039.9	3023.1	3003.9
30°	3014.8	2973.3	2925.4	2872.7	2804.8	2752.9	2736.9
32.5°	2849.4	2756.1	2675.0	2587.2	2514.2	2462.3	2440.6
35°	2529.4	2381.7	2261.1	2155.7	2079.1	2031.2	2015.2
37.5°	2149.6	2006.7	1857.4	1755.2	1691.7	1643.3	1625.2
40°	1908.2	1752.5	1622.4	1526.6	1461.1	1414.0	1413.2
42.5°	1687.8	1539.2	1416.7	1347.7	1277.1	1246.0	1245.8
45°	1382.0	1263.1	1159.3	1105.0	1062.7	1037.1	1029.9
47.5°	1144.3	1045.9	976.8	933.5	899.0	882.7	872.2
50°	1010.8	924.6	869.5	831.9	812.8	792.0	790.4
52.5°	899.6	830.0	787.1	756.6	732.3	719.8	720.2
55°	756.1	701.0	670.7	647.5	628.3	618.8	614.8
57.5°	637.0	595.6	573.6	552.3	544.2	536.7	534.6
60°	562.9	534.9	514.2	497.4	485.4	483.0	482.2
62.5°	501.6	472.3	458.0	445.0	436.3	432.6	431.1
65°	413.6	392.0	379.2	368.9	365.7	360.1	359.3
67.5°	333.4	320.5	312.0	304.8	300.5	300.2	300.2
70°	284.2	277.0	269.9	265.9	263.5	261.9	261.9
72.5°	242.1	236.8	230.9	228.8	228.3	226.7	226.1
75°	184.4	178.8	179.6	175.7	172.5	168.5	166.1
77.5°	130.8	126.8	126.0	125.5	122.8	122.3	123.6
80°	101.4	97.4	96.6	97.4	96.6	94.2	94.2
82.5°	77.1	73.8	73.0	72.5	71.7	72.5	71.2
85°	41.5	39.9	39.9	39.9	41.5	40.7	39.9
87.5°	20.7	20.4	21.2	20.7	20.8	20.3	21.0
90°	30.2	31.8	32.8	33.3	33.8	34.3	34.9
92.5°	48.8	49.7	50.3	50.7	51.0	51.3	51.6
95°	90.6	91.4	91.8	91.8	91.8	91.8	91.8
97.5°	142.4	143.4	143.8	143.8	143.8	143.8	143.8
100°	179.3	179.8	180.1	180.1	180.1	180.1	180.1
102.5°	219.0	219.7	220.1	220.4	220.6	220.8	221.0
105°	278.8	279.6	280.4	281.2	281.9	282.7	283.5
107.5°	343.5	344.2	344.6	344.5	344.5	344.4	344.4
110°	385.3	384.8	384.9	385.7	386.5	387.3	388.0



TEST NUMBER: P333010

CATALOG NUMBER: SA4XXRDIP-C1195D1205U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	432.1	432.0	432.0	432.2	432.3	432.5	432.7
115°	503.4	503.2	502.9	502.7	502.4	502.2	501.9
117.5°	571.5	570.6	570.0	569.4	568.9	568.4	567.9
120°	617.7	616.4	616.0	616.5	617.0	617.6	618.1
122.5°	665.4	664.5	663.6	662.7	661.8	660.8	659.9
125°	735.0	734.5	734.0	733.5	733.0	732.4	731.9
127.5°	801.3	800.7	800.3	799.9	799.4	799.0	798.6
130°	847.7	847.2	846.4	845.4	844.4	843.3	842.3
132.5°	891.4	890.9	890.4	890.0	889.6	889.2	888.8
135°	956.9	956.4	955.8	955.0	954.2	953.4	952.7
137.5°	1020.1	1019.5	1019.2	1019.4	1019.5	1019.7	1019.8
140°	1062.3	1062.0	1061.8	1061.5	1061.2	1061.0	1060.7
142.5°	1101.9	1101.9	1101.8	1101.8	1101.7	1101.7	1101.6
145°	1161.0	1160.8	1160.2	1159.5	1158.7	1157.9	1157.2
147.5°	1214.9	1214.6	1214.4	1214.2	1213.9	1213.6	1213.4
150°	1248.9	1248.9	1248.8	1248.5	1248.3	1248.0	1247.8
152.5°	1281.5	1282.1	1282.1	1281.4	1280.7	1280.0	1279.4
155°	1326.4	1327.4	1327.4	1326.4	1325.4	1324.3	1323.3
157.5°	1365.3	1366.1	1366.1	1365.2	1364.3	1363.4	1362.6
160°	1389.5	1390.3	1390.0	1388.7	1387.4	1386.2	1384.9
162.5°	1411.8	1413.2	1413.3	1412.0	1410.7	1409.4	1408.1
165°	1440.6	1442.2	1442.4	1441.4	1440.4	1439.3	1438.3
167.5°	1464.8	1466.3	1466.3	1464.7	1463.1	1461.5	1459.9
170°	1477.8	1479.4	1479.2	1477.4	1475.6	1473.8	1472.0
172.5°	1487.7	1489.5	1489.5	1487.6	1485.8	1484.0	1482.2
175°	1498.3	1500.1	1500.1	1498.3	1496.5	1494.7	1492.9
177.5°	1503.8	1505.2	1505.1	1503.4	1501.8	1500.1	1498.5
180°	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2	1502.2

(END OF REPORT)