

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: P333010-840

Luminaire Tested: **SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P333010-840
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-C1195D1205U840-4F0-1E-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

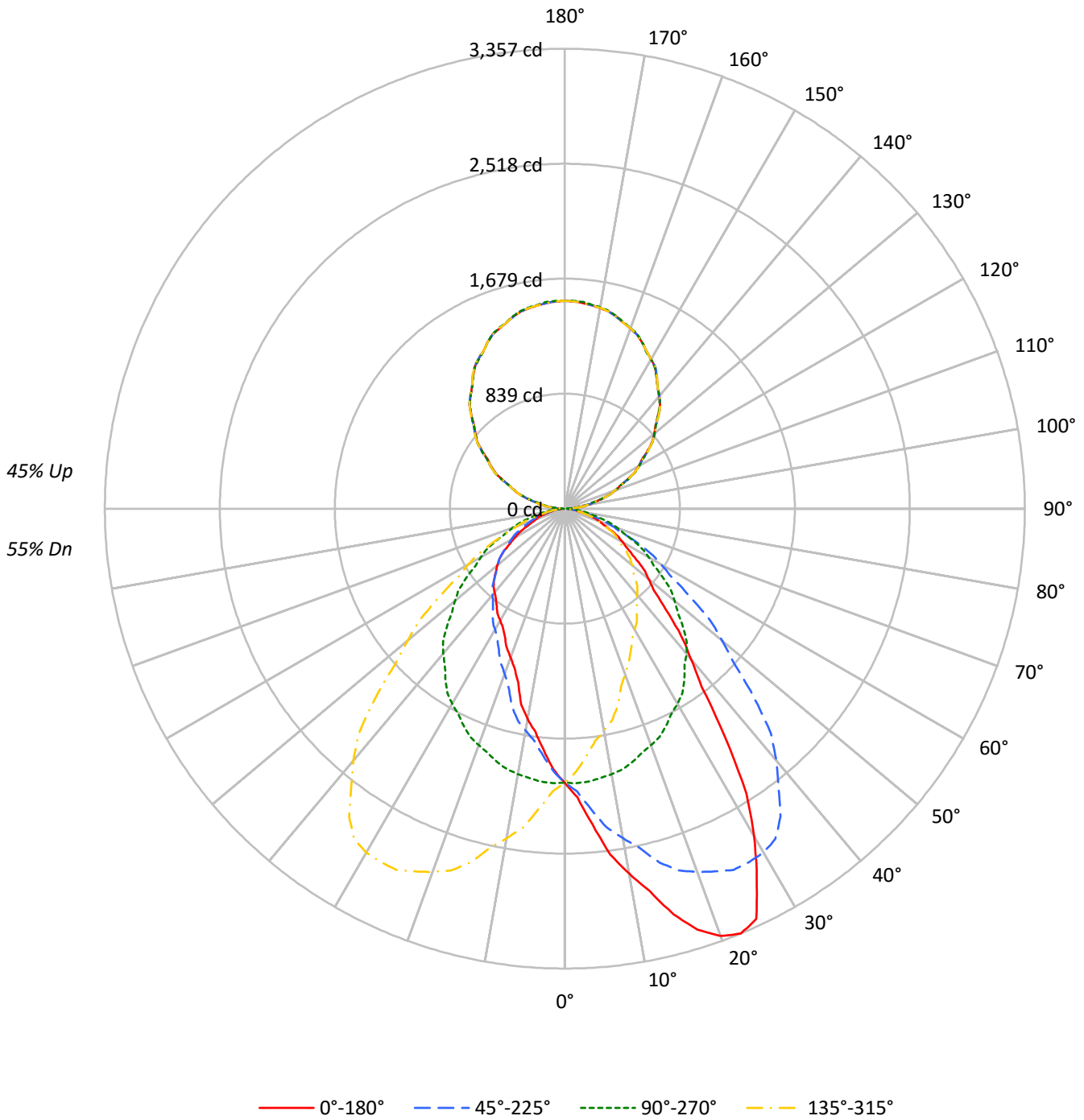
Lumens per Lamp: N/A
Luminaire Lumens: 9272.0 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.23 / 1.39
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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: P333010-840
CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	100	100	100	100	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°	16156	16156	16156	16156
5°	18739	16204	14323	16204
10°	22168	16133	12782	16133
15°	25607	15984	10984	15984
20°	28511	15779	9933	15779
25°	29432	15577	9222	15577
30°	25765	15333	8793	15333
35°	20056	14970	8535	14970
40°	15039	14556	8395	14556
45°	11875	13891	8322	13891
50°	10025	13123	8081	13123
55°	8739	12279	7648	12279
60°	7863	11404	6770	11404
65°	6930	10457	5822	10457
70°	6243	9477	5254	9477
75°	5231	8400	4476	8400
80°	4421	7159	4198	7159
85°	3733	5604	3733	5604



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	2.1
10°-20°	584.9	6.3
20°-30°	914.8	9.9
30°-40°	1017.0	11.0
40°-50°	902.3	9.7
50°-60°	703.1	7.6
60°-70°	460.3	5.0
70°-80°	226.4	2.4
80°-90°	60.4	0.7
90°-100°	100.1	1.1
100°-110°	296.4	3.2
110°-120°	503.1	5.4
120°-130°	663.4	7.2
130°-140°	745.0	8.0
140°-150°	732.1	7.9
150°-160°	615.7	6.6
160°-170°	409.7	4.4
170°-180°	143.5	1.5
0°-30°	1693.6	18.3
0°-40°	2710.6	29.2
0°-60°	4316.0	46.5
0°-90°	5063.1	54.6
90°-120°	899.6	9.7
90°-150°	3040.1	32.8
90°-180°	4209.0	45.4
0°-180°	9272.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2001	2001	2001	2001	2001	
5°	2312	2000	1767	2000	2312	234
15°	3064	1912	1314	1912	3064	871
25°	3304	1749	1035	1749	3304	1466
35°	2035	1519	866	1519	2035	1276
45°	1040	1217	729	1217	1040	824
55°	621	872	543	872	621	565
65°	363	547	305	547	363	365
75°	168	269	144	269	168	185
85°	40	60	40	60	40	46
90°	35	4	35	4	35	20
95°	93	70	93	70	93	97
105°	286	273	286	273	286	302
115°	507	512	507	512	507	501
125°	739	745	739	745	739	659
135°	962	961	962	961	962	743
145°	1169	1167	1169	1167	1169	731
155°	1336	1338	1336	1338	1336	615
165°	1452	1456	1452	1456	1452	409
175°	1508	1515	1508	1515	1508	143
180°	1517	1517	1517	1517	1517	



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2110.8	2116.7	2110.8	2110.2	2103.8	2101.8	2099.2	2090.8	2075.4	2066.4	2068.3
5°	2312.4	2332.6	2321.3	2319.7	2302.0	2284.2	2272.9	2247.2	2219.7	2201.2	2185.9
7.5°	2545.6	2557.2	2550.1	2538.8	2510.1	2493.9	2467.7	2433.7	2384.5	2346.9	2312.6
10°	2704.3	2713.9	2710.8	2689.8	2668.8	2626.1	2601.9	2554.4	2492.2	2443.1	2397.1
12.5°	2860.3	2870.7	2842.4	2843.3	2803.6	2770.0	2731.6	2671.7	2600.0	2536.6	2479.0
15°	3063.9	3051.0	3051.0	3034.8	2990.5	2943.8	2904.3	2841.4	2751.1	2675.2	2595.5
17.5°	3223.2	3227.7	3221.1	3183.1	3148.3	3099.9	3027.5	2954.1	2870.2	2768.4	2686.8
20°	3318.7	3318.7	3311.4	3285.6	3240.5	3188.9	3110.7	3030.8	2924.4	2822.0	2730.1
22.5°	3357.4	3359.9	3351.4	3330.1	3289.5	3239.1	3172.6	3091.5	2981.8	2866.5	2752.7
25°	3304.2	3319.5	3321.0	3315.5	3303.4	3272.7	3215.5	3132.4	3034.0	2909.1	2786.5
27.5°	3033.5	3052.9	3069.9	3097.8	3134.8	3154.2	3156.7	3114.5	3028.7	2908.4	2785.1
30°	2763.9	2780.1	2832.5	2901.0	2954.3	3002.6	3044.5	3055.9	3007.5	2899.4	2769.6
32.5°	2464.7	2486.6	2539.0	2612.7	2701.4	2783.3	2877.5	2925.5	2924.3	2859.4	2739.3
35°	2035.1	2051.2	2099.6	2177.0	2283.4	2405.2	2554.4	2670.4	2749.5	2743.8	2670.4
37.5°	1641.2	1659.5	1708.4	1772.5	1875.7	2026.5	2170.8	2330.8	2476.9	2559.0	2534.5
40°	1427.1	1427.9	1475.5	1541.7	1638.4	1769.8	1927.0	2104.4	2267.2	2400.3	2426.1
42.5°	1258.1	1258.3	1289.7	1361.0	1430.7	1554.4	1704.5	1880.6	2071.2	2224.8	2293.2
45°	1040.1	1047.3	1073.2	1115.9	1170.7	1275.6	1395.6	1559.3	1773.0	1955.2	2068.9
47.5°	880.8	891.4	907.9	942.7	986.4	1056.2	1155.6	1302.6	1476.4	1676.9	1838.7
50°	798.2	799.8	820.8	840.1	878.1	933.7	1020.8	1143.3	1302.9	1495.6	1675.5
52.5°	727.3	726.9	739.5	764.1	794.9	838.2	908.5	1020.1	1161.6	1334.4	1520.0
55°	620.9	624.9	634.5	653.9	677.3	707.9	763.6	847.4	958.7	1106.2	1274.8
57.5°	539.9	542.0	549.6	557.7	579.3	601.5	643.3	701.5	795.4	916.1	1073.2
60°	487.0	487.8	490.2	502.3	519.3	540.2	568.5	617.6	696.6	807.1	931.3
62.5°	435.4	436.9	440.6	449.4	462.5	477.0	506.5	546.0	611.5	705.8	817.7
65°	362.8	363.7	369.3	372.5	382.9	395.9	417.7	444.2	489.4	568.5	653.1
67.5°	303.2	303.2	303.5	307.8	315.1	323.7	336.7	358.0	392.0	440.6	515.2
70°	264.5	264.5	266.1	268.5	272.6	279.7	287.0	303.2	328.2	367.7	425.0
72.5°	228.3	228.9	230.6	231.1	233.2	239.1	244.5	254.8	273.4	303.2	349.4
75°	167.7	170.2	174.2	177.4	181.4	180.6	186.2	192.7	198.3	216.1	242.7
77.5°	124.8	123.5	124.0	126.7	127.2	128.1	132.1	137.0	141.3	149.7	159.2
80°	95.1	95.1	97.6	98.4	97.6	98.4	102.4	104.8	106.4	109.7	118.6
82.5°	71.9	73.2	72.4	73.2	73.7	74.5	77.9	78.4	80.0	81.3	85.0
85°	40.3	41.1	41.9	40.3	40.3	40.3	41.9	42.7	44.3	43.5	45.1
87.5°	21.2	20.5	21.0	20.9	21.4	20.6	20.9	21.9	20.3	20.6	20.2
90°	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0	27.4	25.9	23.7
92.5°	52.1	51.8	51.5	51.2	50.8	50.2	49.3	48.4	47.4	46.5	45.0
95°	92.7	92.7	92.7	92.7	92.7	92.3	91.5	90.7	90.0	89.2	87.4
97.5°	145.2	145.2	145.2	145.2	145.2	144.8	143.8	142.9	142.0	141.0	138.9
100°	181.9	181.9	181.9	181.9	181.9	181.6	181.1	180.6	180.1	179.6	177.1
102.5°	223.2	223.0	222.8	222.6	222.3	221.9	221.2	220.4	219.6	218.9	216.8
105°	286.3	285.5	284.7	284.0	283.2	282.4	281.6	280.8	280.0	279.2	278.2
107.5°	347.8	347.8	347.9	347.9	348.0	347.6	346.9	346.2	345.5	344.7	344.6
110°	391.8	391.1	390.3	389.5	388.7	388.6	389.1	389.6	390.2	390.7	390.9



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	437.0	436.8	436.6	436.5	436.3	436.3	436.4	436.5	436.6	436.7	437.2
115°	506.9	507.2	507.4	507.7	507.9	508.2	508.4	508.7	509.0	509.2	509.7
117.5°	573.5	574.0	574.5	575.0	575.6	576.2	577.1	578.0	579.0	579.9	580.2
120°	624.2	623.7	623.1	622.6	622.1	622.5	623.8	625.1	626.4	627.7	628.4
122.5°	666.4	667.3	668.3	669.2	670.1	671.1	672.0	672.9	673.8	674.6	675.0
125°	739.1	739.6	740.2	740.7	741.2	741.7	742.3	742.8	743.4	743.9	744.1
127.5°	806.5	806.9	807.3	807.8	808.2	808.6	809.2	809.7	810.2	810.7	811.1
130°	850.6	851.6	852.7	853.7	854.7	855.6	856.1	856.6	857.2	857.7	857.7
132.5°	897.6	898.0	898.4	898.8	899.2	899.7	900.2	900.7	901.2	901.8	902.0
135°	962.1	962.8	963.6	964.4	965.2	965.8	966.3	966.9	967.5	968.0	968.0
137.5°	1029.9	1029.8	1029.6	1029.5	1029.3	1029.6	1030.2	1030.9	1031.6	1032.2	1031.8
140°	1071.2	1071.5	1071.7	1072.0	1072.3	1072.5	1072.8	1073.0	1073.3	1073.5	1073.5
142.5°	1112.5	1112.6	1112.6	1112.7	1112.7	1112.8	1112.8	1112.9	1112.9	1113.0	1113.2
145°	1168.6	1169.3	1170.1	1170.9	1171.6	1172.3	1172.5	1172.8	1173.0	1173.3	1173.0
147.5°	1225.4	1225.6	1225.9	1226.2	1226.4	1226.6	1226.9	1227.1	1227.3	1227.5	1227.7
150°	1260.1	1260.3	1260.6	1260.8	1261.1	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2
152.5°	1292.0	1292.6	1293.3	1294.0	1294.7	1294.7	1294.1	1293.4	1292.8	1292.2	1292.0
155°	1336.4	1337.4	1338.5	1339.5	1340.5	1340.5	1339.5	1338.5	1337.4	1336.4	1336.6
157.5°	1376.0	1376.8	1377.8	1378.7	1379.6	1379.6	1378.8	1378.1	1377.3	1376.4	1376.5
160°	1398.6	1399.9	1401.1	1402.4	1403.7	1404.0	1403.2	1402.4	1401.7	1400.9	1401.1
162.5°	1422.0	1423.3	1424.6	1425.9	1427.2	1427.1	1425.7	1424.3	1422.9	1421.5	1421.8
165°	1452.5	1453.5	1454.6	1455.6	1456.6	1456.4	1454.8	1453.3	1451.7	1450.2	1450.7
167.5°	1474.3	1475.9	1477.5	1479.1	1480.8	1480.8	1479.3	1477.6	1476.1	1474.5	1474.5
170°	1486.5	1488.3	1490.2	1492.0	1493.8	1494.0	1492.4	1490.9	1489.2	1487.7	1487.4
172.5°	1496.8	1498.6	1500.5	1502.3	1504.2	1504.2	1502.4	1500.7	1498.8	1497.1	1497.0
175°	1507.6	1509.4	1511.3	1513.1	1514.9	1514.9	1513.1	1511.3	1509.4	1507.6	1507.9
177.5°	1513.3	1514.9	1516.6	1518.2	1519.9	1520.0	1518.6	1517.1	1515.7	1514.2	1514.2
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2061.8	2052.9	2048.3	2038.0	2025.7	2019.2	2013.5	2005.1	1994.1	1982.5	1974.1
5°	2166.5	2147.2	2122.9	2094.0	2068.1	2043.2	2021.3	1999.6	1974.6	1948.8	1923.0
7.5°	2273.9	2235.8	2194.7	2147.2	2100.8	2058.8	2020.0	1983.0	1941.1	1903.5	1869.3
10°	2348.7	2297.1	2239.9	2179.4	2118.9	2066.5	2014.9	1968.1	1916.5	1870.6	1831.9
12.5°	2409.3	2348.7	2279.9	2204.5	2131.8	2068.4	2009.1	1948.1	1889.5	1839.7	1788.1
15°	2509.9	2426.9	2334.2	2243.9	2149.6	2063.3	1983.5	1912.5	1845.6	1775.4	1726.3
17.5°	2579.2	2480.6	2367.9	2259.4	2148.0	2046.2	1954.1	1869.7	1792.4	1720.8	1662.2
20°	2620.4	2511.5	2386.6	2263.2	2138.3	2029.4	1930.3	1836.7	1756.9	1679.5	1619.0
22.5°	2643.6	2523.1	2386.6	2257.5	2128.0	2010.0	1901.2	1803.8	1716.9	1639.5	1572.6
25°	2651.1	2522.0	2382.6	2234.2	2092.3	1967.3	1854.4	1748.8	1652.0	1574.7	1503.7
27.5°	2640.8	2488.8	2346.0	2193.7	2047.3	1915.6	1797.1	1686.1	1589.2	1506.1	1433.4
30°	2625.2	2462.4	2309.2	2151.2	2002.8	1876.2	1751.2	1644.9	1544.1	1457.7	1384.4
32.5°	2591.7	2430.1	2265.3	2103.4	1953.2	1822.7	1704.1	1597.1	1498.2	1410.1	1332.1
35°	2525.3	2361.6	2182.6	2016.5	1869.0	1733.5	1622.2	1519.0	1424.7	1330.4	1248.1
37.5°	2437.7	2270.5	2092.4	1910.6	1762.8	1635.0	1532.9	1436.0	1343.9	1257.8	1166.7
40°	2355.2	2202.8	2018.9	1838.4	1686.8	1563.4	1469.1	1381.2	1288.5	1203.0	1111.9
42.5°	2255.2	2125.4	1939.6	1758.4	1608.7	1489.9	1402.0	1316.1	1231.7	1148.8	1053.8
45°	2088.3	1989.9	1815.7	1641.6	1490.9	1373.1	1292.5	1216.7	1142.5	1063.5	974.0
47.5°	1897.0	1830.4	1680.1	1501.8	1362.3	1256.4	1178.5	1116.5	1053.8	974.8	896.3
50°	1764.1	1721.4	1576.3	1413.4	1280.4	1182.9	1103.0	1044.9	992.5	916.8	846.6
52.5°	1622.2	1599.5	1476.9	1321.2	1192.7	1097.0	1028.9	976.5	923.5	860.6	795.0
55°	1406.1	1418.3	1314.2	1179.6	1058.6	978.1	915.9	872.4	827.3	774.1	723.3
57.5°	1185.3	1229.4	1159.6	1041.4	928.1	853.5	806.8	770.1	732.3	688.1	644.7
60°	1053.0	1090.0	1050.6	946.5	847.4	778.1	734.6	706.3	668.4	628.1	595.0
62.5°	924.0	963.7	940.3	856.3	764.2	704.6	666.1	639.9	611.7	576.5	542.2
65°	761.9	787.7	776.5	718.4	653.1	602.3	566.8	547.4	521.7	495.8	465.2
67.5°	583.6	633.4	626.8	596.0	539.6	499.9	476.7	459.6	436.1	416.9	396.1
70°	479.8	525.7	524.9	499.9	469.3	432.1	416.1	401.5	380.5	362.0	345.1
72.5°	392.6	434.7	441.0	421.8	400.9	372.8	357.4	347.4	327.0	314.3	300.5
75°	275.0	305.6	313.7	313.7	304.0	289.4	275.8	269.3	254.8	243.5	235.4
77.5°	180.3	199.7	212.2	215.1	216.6	211.8	200.5	195.9	184.8	180.8	173.0
80°	127.3	140.3	154.8	159.7	163.7	162.1	157.2	154.0	143.5	139.5	136.2
82.5°	88.1	95.1	107.0	117.8	116.5	120.8	116.5	114.0	106.1	104.6	101.4
85°	45.9	46.8	48.4	55.6	59.7	61.3	62.1	60.5	58.1	58.1	52.4
87.5°	19.8	18.8	19.6	19.1	19.2	21.2	22.5	22.6	21.3	19.9	18.6
90°	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5	6.4	9.3	12.1
92.5°	43.5	42.1	40.6	38.3	34.9	31.7	28.4	25.1	28.4	31.7	34.9
95°	85.5	83.7	81.9	79.8	77.5	75.1	72.7	70.4	72.7	75.1	77.5
97.5°	136.7	134.6	132.5	130.5	128.6	126.7	124.8	123.0	124.8	126.7	128.6
100°	174.8	172.5	170.2	168.4	167.3	166.3	165.3	164.3	165.3	166.3	167.3
102.5°	214.7	212.5	210.4	209.1	208.6	208.2	207.8	207.4	207.8	208.2	208.6
105°	277.1	276.1	275.1	274.4	274.2	273.9	273.7	273.4	273.7	273.9	274.2
107.5°	344.4	344.3	344.1	343.9	343.6	343.3	343.0	342.5	343.0	343.3	343.6
110°	391.2	391.5	391.7	391.6	391.1	390.5	390.0	389.5	390.0	390.5	391.1



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	437.7	438.1	438.6	438.8	438.7	438.6	438.5	438.3	438.5	438.6	438.7
115°	510.3	510.8	511.3	511.5	511.5	511.5	511.5	511.5	511.5	511.5	511.5
117.5°	580.6	580.9	581.3	581.4	581.2	581.0	580.8	580.6	580.8	581.0	581.2
120°	629.2	630.1	630.9	630.7	629.7	628.6	627.5	626.5	627.5	628.6	629.7
122.5°	675.4	675.7	676.1	676.1	675.6	675.2	674.8	674.4	674.8	675.2	675.6
125°	744.4	744.7	744.9	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
127.5°	811.5	811.9	812.4	812.2	811.4	810.6	809.9	809.1	809.9	810.6	811.4
130°	857.7	857.7	857.7	857.3	856.5	855.7	855.0	854.1	855.0	855.7	856.5
132.5°	902.2	902.4	902.6	902.4	901.8	901.3	900.7	900.1	900.7	901.3	901.8
135°	968.0	968.0	968.0	967.1	965.6	964.0	962.5	960.9	962.5	964.0	965.6
137.5°	1031.4	1031.0	1030.6	1030.0	1029.3	1028.5	1027.8	1027.0	1027.8	1028.5	1029.3
140°	1073.5	1073.5	1073.5	1073.3	1072.8	1072.3	1071.7	1071.2	1071.7	1072.3	1072.8
142.5°	1113.4	1113.6	1113.8	1113.7	1113.1	1112.6	1112.1	1111.6	1112.1	1112.6	1113.1
145°	1172.8	1172.5	1172.3	1171.5	1170.5	1169.5	1168.4	1167.4	1168.4	1169.5	1170.5
147.5°	1227.9	1228.1	1228.3	1227.8	1226.5	1225.3	1224.1	1222.7	1224.1	1225.3	1226.5
150°	1261.2	1261.2	1261.2	1260.7	1259.7	1258.7	1257.6	1256.6	1257.6	1258.7	1259.7
152.5°	1291.8	1291.6	1291.4	1291.0	1290.3	1289.7	1289.1	1288.5	1289.1	1289.7	1290.3
155°	1336.9	1337.2	1337.4	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
157.5°	1376.5	1376.6	1376.6	1377.0	1377.5	1377.9	1378.4	1378.8	1378.4	1377.9	1377.5
160°	1401.4	1401.7	1401.9	1402.2	1402.4	1402.7	1403.0	1403.2	1403.0	1402.7	1402.4
162.5°	1422.1	1422.3	1422.6	1423.0	1423.7	1424.4	1425.0	1425.7	1425.0	1424.4	1423.7
165°	1451.2	1451.7	1452.2	1452.9	1453.7	1454.4	1455.2	1456.0	1455.2	1454.4	1453.7
167.5°	1474.4	1474.4	1474.3	1474.9	1475.9	1477.0	1478.1	1479.3	1478.1	1477.0	1475.9
170°	1487.1	1486.9	1486.6	1487.1	1488.4	1489.8	1491.1	1492.4	1491.1	1489.8	1488.4
172.5°	1497.0	1496.9	1496.8	1497.4	1498.4	1499.5	1500.7	1501.8	1500.7	1499.5	1498.4
175°	1508.1	1508.4	1508.6	1509.4	1510.8	1512.1	1513.4	1514.7	1513.4	1512.1	1510.8
177.5°	1514.2	1514.2	1514.2	1514.7	1515.8	1516.8	1517.8	1518.9	1517.8	1516.8	1515.8
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1965.1	1958.6	1950.3	1940.6	1928.9	1918.6	1914.1	1918.0	1920.0	1914.8	1914.1
5°	1905.2	1885.1	1869.0	1844.8	1825.4	1809.3	1798.1	1793.2	1794.8	1781.9	1778.7
7.5°	1838.1	1814.1	1787.7	1759.0	1732.2	1708.5	1696.1	1689.3	1675.7	1669.8	1660.0
10°	1794.8	1762.5	1736.8	1702.8	1672.2	1644.1	1630.3	1619.0	1605.3	1598.8	1585.2
12.5°	1750.3	1712.8	1684.5	1649.3	1618.0	1584.1	1570.9	1550.0	1528.5	1515.0	1497.4
15°	1687.6	1642.4	1607.7	1565.8	1528.7	1490.1	1455.3	1416.6	1402.1	1371.5	1353.7
17.5°	1614.2	1568.4	1525.5	1469.3	1412.0	1363.9	1327.0	1289.9	1267.7	1248.1	1239.1
20°	1565.8	1523.9	1464.2	1398.9	1335.2	1282.0	1252.1	1228.0	1203.8	1190.1	1180.4
22.5°	1520.0	1466.4	1397.1	1326.7	1262.9	1221.3	1196.1	1171.2	1151.5	1138.5	1125.6
25°	1443.3	1373.1	1299.7	1219.1	1175.6	1139.3	1111.9	1091.7	1079.6	1062.7	1056.2
27.5°	1364.4	1279.4	1198.5	1144.3	1098.9	1065.7	1041.9	1026.7	1011.4	1000.6	992.2
30°	1303.7	1217.5	1144.9	1093.3	1047.3	1020.0	1000.6	982.9	970.8	961.9	955.4
32.5°	1243.7	1157.5	1096.5	1041.1	1004.8	978.1	957.4	944.1	934.6	923.2	919.3
35°	1157.0	1080.5	1027.2	977.2	940.1	915.9	899.8	886.2	878.1	874.8	872.4
37.5°	1073.7	1010.9	953.7	912.7	879.7	860.6	841.6	834.9	829.3	823.5	826.2
40°	1020.8	961.9	911.1	867.6	840.9	820.0	808.7	800.6	795.8	795.8	795.8
42.5°	974.9	917.4	867.9	828.9	802.2	784.6	771.9	765.2	763.6	763.0	766.8
45°	903.8	850.6	800.6	768.4	745.8	728.1	720.8	715.2	715.2	718.4	719.2
47.5°	833.3	783.6	743.4	707.3	686.6	675.5	669.2	666.3	666.6	669.8	673.6
50°	790.1	740.9	701.5	669.2	649.8	639.3	633.7	632.2	633.7	633.7	639.3
52.5°	743.1	699.0	660.1	633.1	611.2	601.4	598.2	596.0	596.9	599.6	602.0
55°	674.1	634.5	597.4	571.7	555.5	549.1	541.8	542.6	541.0	542.6	542.6
57.5°	604.9	569.4	534.9	514.4	500.2	490.9	482.9	485.2	482.8	482.5	481.2
60°	560.4	521.7	494.2	475.7	459.6	451.5	444.2	445.9	443.4	441.8	438.6
62.5°	512.0	479.8	453.6	435.8	422.8	413.4	406.2	404.6	399.0	393.4	386.4
65°	441.8	415.3	391.8	375.0	362.8	355.6	349.9	345.1	333.0	320.1	313.7
67.5°	373.7	354.5	332.6	318.3	308.5	299.0	288.2	279.9	268.6	261.6	257.5
70°	329.7	311.2	292.7	278.9	268.5	259.6	247.5	241.9	233.8	230.6	226.6
72.5°	287.8	270.5	253.4	241.0	229.7	222.9	213.4	207.7	204.2	202.9	198.8
75°	224.2	210.5	197.5	186.2	177.4	172.6	168.5	164.5	162.9	155.6	151.6
77.5°	163.5	154.5	146.4	138.4	132.1	128.9	121.1	116.4	113.7	110.3	109.5
80°	127.3	121.0	112.9	108.1	99.2	95.9	92.7	91.9	91.1	90.3	89.5
82.5°	95.8	89.4	81.3	78.4	75.9	74.0	72.1	71.3	70.5	71.0	70.8
85°	48.4	45.1	45.1	44.3	43.5	42.7	41.9	41.9	41.1	41.9	41.1
87.5°	19.1	19.0	19.4	18.5	19.6	20.0	19.7	20.0	20.9	20.0	20.2
90°	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0	30.5	32.1	33.1
92.5°	38.3	40.6	42.1	43.5	45.0	46.5	47.4	48.4	49.3	50.2	50.8
95°	79.8	81.9	83.7	85.5	87.4	89.2	90.0	90.7	91.5	92.3	92.7
97.5°	130.5	132.5	134.6	136.7	138.9	141.0	142.0	142.9	143.8	144.8	145.2
100°	168.4	170.2	172.5	174.8	177.1	179.6	180.1	180.6	181.1	181.6	181.9
102.5°	209.1	210.4	212.5	214.7	216.8	218.9	219.6	220.4	221.2	221.9	222.3
105°	274.4	275.1	276.1	277.1	278.2	279.2	280.0	280.8	281.6	282.4	283.2
107.5°	343.9	344.1	344.3	344.4	344.6	344.7	345.5	346.2	346.9	347.6	348.0
110°	391.6	391.7	391.5	391.2	390.9	390.7	390.2	389.6	389.1	388.6	388.7



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	438.8	438.6	438.1	437.7	437.2	436.7	436.6	436.5	436.4	436.3	436.3
115°	511.5	511.3	510.8	510.3	509.7	509.2	509.0	508.7	508.4	508.2	507.9
117.5°	581.4	581.3	580.9	580.6	580.2	579.9	579.0	578.0	577.1	576.2	575.6
120°	630.7	630.9	630.1	629.2	628.4	627.7	626.4	625.1	623.8	622.5	622.1
122.5°	676.1	676.1	675.7	675.4	675.0	674.6	673.8	672.9	672.0	671.1	670.1
125°	745.0	744.9	744.7	744.4	744.1	743.9	743.4	742.8	742.3	741.7	741.2
127.5°	812.2	812.4	811.9	811.5	811.1	810.7	810.2	809.7	809.2	808.6	808.2
130°	857.3	857.7	857.7	857.7	857.7	857.7	857.2	856.6	856.1	855.6	854.7
132.5°	902.4	902.6	902.4	902.2	902.0	901.8	901.2	900.7	900.2	899.7	899.2
135°	967.1	968.0	968.0	968.0	968.0	968.0	967.5	966.9	966.3	965.8	965.2
137.5°	1030.0	1030.6	1031.0	1031.4	1031.8	1032.2	1031.6	1030.9	1030.2	1029.6	1029.3
140°	1073.3	1073.5	1073.5	1073.5	1073.5	1073.5	1073.3	1073.0	1072.8	1072.5	1072.3
142.5°	1113.7	1113.8	1113.6	1113.4	1113.2	1113.0	1112.9	1112.9	1112.8	1112.8	1112.7
145°	1171.5	1172.3	1172.5	1172.8	1173.0	1173.3	1173.0	1172.8	1172.5	1172.3	1171.6
147.5°	1227.8	1228.3	1228.1	1227.9	1227.7	1227.5	1227.3	1227.1	1226.9	1226.6	1226.4
150°	1260.7	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1261.1
152.5°	1291.0	1291.4	1291.6	1291.8	1292.0	1292.2	1292.8	1293.4	1294.1	1294.7	1294.7
155°	1337.5	1337.4	1337.2	1336.9	1336.6	1336.4	1337.4	1338.5	1339.5	1340.5	1340.5
157.5°	1377.0	1376.6	1376.6	1376.5	1376.5	1376.4	1377.3	1378.1	1378.8	1379.6	1379.6
160°	1402.2	1401.9	1401.7	1401.4	1401.1	1400.9	1401.7	1402.4	1403.2	1404.0	1403.7
162.5°	1423.0	1422.6	1422.3	1422.1	1421.8	1421.5	1422.9	1424.3	1425.7	1427.1	1427.2
165°	1452.9	1452.2	1451.7	1451.2	1450.7	1450.2	1451.7	1453.3	1454.8	1456.4	1456.6
167.5°	1474.9	1474.3	1474.4	1474.4	1474.5	1474.5	1476.1	1477.6	1479.3	1480.8	1480.8
170°	1487.1	1486.6	1486.9	1487.1	1487.4	1487.7	1489.2	1490.9	1492.4	1494.0	1493.8
172.5°	1497.4	1496.8	1496.9	1497.0	1497.0	1497.1	1498.8	1500.7	1502.4	1504.2	1504.2
175°	1509.4	1508.6	1508.4	1508.1	1507.9	1507.6	1509.4	1511.3	1513.1	1514.9	1514.9
177.5°	1514.7	1514.2	1514.2	1514.2	1514.2	1514.2	1515.7	1517.1	1518.6	1520.0	1519.9
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1910.3	1911.6	1907.0	1905.7	1907.0	1911.6	1910.3	1914.1	1914.8	1920.0	1918.0
5°	1772.2	1770.6	1766.6	1767.4	1766.6	1770.6	1772.2	1778.7	1781.9	1794.8	1793.2
7.5°	1654.2	1647.9	1649.6	1643.3	1649.6	1647.9	1654.2	1660.0	1669.8	1675.7	1689.3
10°	1582.0	1573.1	1565.8	1559.3	1565.8	1573.1	1582.0	1585.2	1598.8	1605.3	1619.0
12.5°	1483.3	1475.6	1465.8	1467.7	1465.8	1475.6	1483.3	1497.4	1515.0	1528.5	1550.0
15°	1343.2	1331.2	1311.8	1314.2	1311.8	1331.2	1343.2	1353.7	1371.5	1402.1	1416.6
17.5°	1224.8	1224.9	1216.1	1218.1	1216.1	1224.9	1224.8	1239.1	1248.1	1267.7	1289.9
20°	1163.5	1157.8	1158.6	1156.2	1158.6	1157.8	1163.5	1180.4	1190.1	1203.8	1228.0
22.5°	1120.8	1114.0	1108.3	1103.3	1108.3	1114.0	1120.8	1125.6	1138.5	1151.5	1171.2
25°	1048.9	1044.1	1036.9	1035.3	1036.9	1044.1	1048.9	1056.2	1062.7	1079.6	1091.7
27.5°	985.7	984.8	981.9	978.2	981.9	984.8	985.7	992.2	1000.6	1011.4	1026.7
30°	949.0	947.4	945.7	943.3	945.7	947.4	949.0	955.4	961.9	970.8	982.9
32.5°	916.1	915.1	913.5	913.7	913.5	915.1	916.1	919.3	923.2	934.6	944.1
35°	869.2	868.4	866.8	866.0	866.8	868.4	869.2	872.4	874.8	878.1	886.2
37.5°	825.4	827.4	826.5	826.3	826.5	827.4	825.4	826.2	823.5	829.3	834.9
40°	795.0	795.8	797.4	796.6	797.4	795.8	795.0	795.8	795.8	795.8	800.6
42.5°	769.8	770.0	772.2	769.5	772.2	770.0	769.8	766.8	763.0	763.6	765.2
45°	724.9	729.7	728.9	728.9	728.9	729.7	724.9	719.2	718.4	715.2	715.2
47.5°	675.7	679.8	681.0	680.9	681.0	679.8	675.7	673.6	669.8	666.6	666.3
50°	643.4	641.8	644.2	643.4	644.2	641.8	643.4	639.3	633.7	633.7	632.2
52.5°	604.1	604.4	604.2	603.4	604.2	604.4	604.1	602.0	599.6	596.9	596.0
55°	543.4	544.2	542.6	543.4	542.6	544.2	543.4	542.6	542.6	541.0	542.6
57.5°	477.7	473.7	475.3	473.4	475.3	473.7	477.7	481.2	482.5	482.8	485.2
60°	430.6	424.1	422.5	419.3	422.5	424.1	430.6	438.6	441.8	443.4	445.9
62.5°	377.7	373.1	367.7	370.2	367.7	373.1	377.7	386.4	393.4	399.0	404.6
65°	307.2	304.0	301.5	304.8	301.5	304.0	307.2	313.7	320.1	333.0	345.1
67.5°	254.3	252.6	252.6	251.0	252.6	252.6	254.3	257.5	261.6	268.6	279.9
70°	226.6	224.2	224.2	222.6	224.2	224.2	226.6	226.6	230.6	233.8	241.9
72.5°	198.1	195.8	196.4	195.4	196.4	195.8	198.1	198.8	202.9	204.2	207.7
75°	146.7	142.7	142.7	143.5	142.7	142.7	146.7	151.6	155.6	162.9	164.5
77.5°	109.5	108.7	109.8	108.4	109.8	108.7	109.5	109.5	110.3	113.7	116.4
80°	89.5	88.7	87.9	90.3	87.9	88.7	89.5	89.5	90.3	91.1	91.9
82.5°	69.5	69.4	69.2	72.2	69.2	69.4	69.5	70.8	71.0	70.5	71.3
85°	41.9	40.3	41.9	40.3	41.9	40.3	41.9	41.1	41.9	41.1	41.9
87.5°	21.6	21.0	20.5	21.2	20.5	21.0	21.6	20.2	20.0	20.9	20.0
90°	33.6	34.1	34.6	35.2	34.6	34.1	33.6	33.1	32.1	30.5	29.0
92.5°	51.2	51.5	51.8	52.1	51.8	51.5	51.2	50.8	50.2	49.3	48.4
95°	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.3	91.5	90.7
97.5°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	144.8	143.8	142.9
100°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.6	181.1	180.6
102.5°	222.6	222.8	223.0	223.2	223.0	222.8	222.6	222.3	221.9	221.2	220.4
105°	284.0	284.7	285.5	286.3	285.5	284.7	284.0	283.2	282.4	281.6	280.8
107.5°	347.9	347.9	347.8	347.8	347.8	347.9	347.9	348.0	347.6	346.9	346.2
110°	389.5	390.3	391.1	391.8	391.1	390.3	389.5	388.7	388.6	389.1	389.6



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	436.5	436.6	436.8	437.0	436.8	436.6	436.5	436.3	436.3	436.4	436.5
115°	507.7	507.4	507.2	506.9	507.2	507.4	507.7	507.9	508.2	508.4	508.7
117.5°	575.0	574.5	574.0	573.5	574.0	574.5	575.0	575.6	576.2	577.1	578.0
120°	622.6	623.1	623.7	624.2	623.7	623.1	622.6	622.1	622.5	623.8	625.1
122.5°	669.2	668.3	667.3	666.4	667.3	668.3	669.2	670.1	671.1	672.0	672.9
125°	740.7	740.2	739.6	739.1	739.6	740.2	740.7	741.2	741.7	742.3	742.8
127.5°	807.8	807.3	806.9	806.5	806.9	807.3	807.8	808.2	808.6	809.2	809.7
130°	853.7	852.7	851.6	850.6	851.6	852.7	853.7	854.7	855.6	856.1	856.6
132.5°	898.8	898.4	898.0	897.6	898.0	898.4	898.8	899.2	899.7	900.2	900.7
135°	964.4	963.6	962.8	962.1	962.8	963.6	964.4	965.2	965.8	966.3	966.9
137.5°	1029.5	1029.6	1029.8	1029.9	1029.8	1029.6	1029.5	1029.3	1029.6	1030.2	1030.9
140°	1072.0	1071.7	1071.5	1071.2	1071.5	1071.7	1072.0	1072.3	1072.5	1072.8	1073.0
142.5°	1112.7	1112.6	1112.6	1112.5	1112.6	1112.6	1112.7	1112.7	1112.8	1112.8	1112.9
145°	1170.9	1170.1	1169.3	1168.6	1169.3	1170.1	1170.9	1171.6	1172.3	1172.5	1172.8
147.5°	1226.2	1225.9	1225.6	1225.4	1225.6	1225.9	1226.2	1226.4	1226.6	1226.9	1227.1
150°	1260.8	1260.6	1260.3	1260.1	1260.3	1260.6	1260.8	1261.1	1261.2	1261.2	1261.2
152.5°	1294.0	1293.3	1292.6	1292.0	1292.6	1293.3	1294.0	1294.7	1294.7	1294.1	1293.4
155°	1339.5	1338.5	1337.4	1336.4	1337.4	1338.5	1339.5	1340.5	1340.5	1339.5	1338.5
157.5°	1378.7	1377.8	1376.8	1376.0	1376.8	1377.8	1378.7	1379.6	1379.6	1378.8	1378.1
160°	1402.4	1401.1	1399.9	1398.6	1399.9	1401.1	1402.4	1403.7	1404.0	1403.2	1402.4
162.5°	1425.9	1424.6	1423.3	1422.0	1423.3	1424.6	1425.9	1427.2	1427.1	1425.7	1424.3
165°	1455.6	1454.6	1453.5	1452.5	1453.5	1454.6	1455.6	1456.6	1456.4	1454.8	1453.3
167.5°	1479.1	1477.5	1475.9	1474.3	1475.9	1477.5	1479.1	1480.8	1480.8	1479.3	1477.6
170°	1492.0	1490.2	1488.3	1486.5	1488.3	1490.2	1492.0	1493.8	1494.0	1492.4	1490.9
172.5°	1502.3	1500.5	1498.6	1496.8	1498.6	1500.5	1502.3	1504.2	1504.2	1502.4	1500.7
175°	1513.1	1511.3	1509.4	1507.6	1509.4	1511.3	1513.1	1514.9	1514.9	1513.1	1511.3
177.5°	1518.2	1516.6	1514.9	1513.3	1514.9	1516.6	1518.2	1519.9	1520.0	1518.6	1517.1
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840
 CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	1914.1	1918.6	1928.9	1940.6	1950.3	1958.6	1965.1	1974.1	1982.5	1994.1	2005.1
5°	1798.1	1809.3	1825.4	1844.8	1869.0	1885.1	1905.2	1923.0	1948.8	1974.6	1999.6
7.5°	1696.1	1708.5	1732.2	1759.0	1787.7	1814.1	1838.1	1869.3	1903.5	1941.1	1983.0
10°	1630.3	1644.1	1672.2	1702.8	1736.8	1762.5	1794.8	1831.9	1870.6	1916.5	1968.1
12.5°	1570.9	1584.1	1618.0	1649.3	1684.5	1712.8	1750.3	1788.1	1839.7	1889.5	1948.1
15°	1455.3	1490.1	1528.7	1565.8	1607.7	1642.4	1687.6	1726.3	1775.4	1845.6	1912.5
17.5°	1327.0	1363.9	1412.0	1469.3	1525.5	1568.4	1614.2	1662.2	1720.8	1792.4	1869.7
20°	1252.1	1282.0	1335.2	1398.9	1464.2	1523.9	1565.8	1619.0	1679.5	1756.9	1836.7
22.5°	1196.1	1221.3	1262.9	1326.7	1397.1	1466.4	1520.0	1572.6	1639.5	1716.9	1803.8
25°	1111.9	1139.3	1175.6	1219.1	1299.7	1373.1	1443.3	1503.7	1574.7	1652.0	1748.8
27.5°	1041.9	1065.7	1098.9	1144.3	1198.5	1279.4	1364.4	1433.4	1506.1	1589.2	1686.1
30°	1000.6	1020.0	1047.3	1093.3	1144.9	1217.5	1303.7	1384.4	1457.7	1544.1	1644.9
32.5°	957.4	978.1	1004.8	1041.1	1096.5	1157.5	1243.7	1332.1	1410.1	1498.2	1597.1
35°	899.8	915.9	940.1	977.2	1027.2	1080.5	1157.0	1248.1	1330.4	1424.7	1519.0
37.5°	841.6	860.6	879.7	912.7	953.7	1010.9	1073.7	1166.7	1257.8	1343.9	1436.0
40°	808.7	820.0	840.9	867.6	911.1	961.9	1020.8	1111.9	1203.0	1288.5	1381.2
42.5°	771.9	784.6	802.2	828.9	867.9	917.4	974.9	1053.8	1148.8	1231.7	1316.1
45°	720.8	728.1	745.8	768.4	800.6	850.6	903.8	974.0	1063.5	1142.5	1216.7
47.5°	669.2	675.5	686.6	707.3	743.4	783.6	833.3	896.3	974.8	1053.8	1116.5
50°	633.7	639.3	649.8	669.2	701.5	740.9	790.1	846.6	916.8	992.5	1044.9
52.5°	598.2	601.4	611.2	633.1	660.1	699.0	743.1	795.0	860.6	923.5	976.5
55°	541.8	549.1	555.5	571.7	597.4	634.5	674.1	723.3	774.1	827.3	872.4
57.5°	482.9	490.9	500.2	514.4	534.9	569.4	604.9	644.7	688.1	732.3	770.1
60°	444.2	451.5	459.6	475.7	494.2	521.7	560.4	595.0	628.1	668.4	706.3
62.5°	406.2	413.4	422.8	435.8	453.6	479.8	512.0	542.2	576.5	611.7	639.9
65°	349.9	355.6	362.8	375.0	391.8	415.3	441.8	465.2	495.8	521.7	547.4
67.5°	288.2	299.0	308.5	318.3	332.6	354.5	373.7	396.1	416.9	436.1	459.6
70°	247.5	259.6	268.5	278.9	292.7	311.2	329.7	345.1	362.0	380.5	401.5
72.5°	213.4	222.9	229.7	241.0	253.4	270.5	287.8	300.5	314.3	327.0	347.4
75°	168.5	172.6	177.4	186.2	197.5	210.5	224.2	235.4	243.5	254.8	269.3
77.5°	121.1	128.9	132.1	138.4	146.4	154.5	163.5	173.0	180.8	184.8	195.9
80°	92.7	95.9	99.2	108.1	112.9	121.0	127.3	136.2	139.5	143.5	154.0
82.5°	72.1	74.0	75.9	78.4	81.3	89.4	95.8	101.4	104.6	106.1	114.0
85°	41.9	42.7	43.5	44.3	45.1	45.1	48.4	52.4	58.1	58.1	60.5
87.5°	19.7	20.0	19.6	18.5	19.4	19.0	19.1	18.6	19.9	21.3	22.6
90°	27.4	25.9	23.7	21.6	19.6	17.5	14.9	12.1	9.3	6.4	3.5
92.5°	47.4	46.5	45.0	43.5	42.1	40.6	38.3	34.9	31.7	28.4	25.1
95°	90.0	89.2	87.4	85.5	83.7	81.9	79.8	77.5	75.1	72.7	70.4
97.5°	142.0	141.0	138.9	136.7	134.6	132.5	130.5	128.6	126.7	124.8	123.0
100°	180.1	179.6	177.1	174.8	172.5	170.2	168.4	167.3	166.3	165.3	164.3
102.5°	219.6	218.9	216.8	214.7	212.5	210.4	209.1	208.6	208.2	207.8	207.4
105°	280.0	279.2	278.2	277.1	276.1	275.1	274.4	274.2	273.9	273.7	273.4
107.5°	345.5	344.7	344.6	344.4	344.3	344.1	343.9	343.6	343.3	343.0	342.5
110°	390.2	390.7	390.9	391.2	391.5	391.7	391.6	391.1	390.5	390.0	389.5



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	436.6	436.7	437.2	437.7	438.1	438.6	438.8	438.7	438.6	438.5	438.3
115°	509.0	509.2	509.7	510.3	510.8	511.3	511.5	511.5	511.5	511.5	511.5
117.5°	579.0	579.9	580.2	580.6	580.9	581.3	581.4	581.2	581.0	580.8	580.6
120°	626.4	627.7	628.4	629.2	630.1	630.9	630.7	629.7	628.6	627.5	626.5
122.5°	673.8	674.6	675.0	675.4	675.7	676.1	676.1	675.6	675.2	674.8	674.4
125°	743.4	743.9	744.1	744.4	744.7	744.9	745.0	745.0	745.0	745.0	745.0
127.5°	810.2	810.7	811.1	811.5	811.9	812.4	812.2	811.4	810.6	809.9	809.1
130°	857.2	857.7	857.7	857.7	857.7	857.7	857.3	856.5	855.7	855.0	854.1
132.5°	901.2	901.8	902.0	902.2	902.4	902.6	902.4	901.8	901.3	900.7	900.1
135°	967.5	968.0	968.0	968.0	968.0	968.0	967.1	965.6	964.0	962.5	960.9
137.5°	1031.6	1032.2	1031.8	1031.4	1031.0	1030.6	1030.0	1029.3	1028.5	1027.8	1027.0
140°	1073.3	1073.5	1073.5	1073.5	1073.5	1073.5	1073.3	1072.8	1072.3	1071.7	1071.2
142.5°	1112.9	1113.0	1113.2	1113.4	1113.6	1113.8	1113.7	1113.1	1112.6	1112.1	1111.6
145°	1173.0	1173.3	1173.0	1172.8	1172.5	1172.3	1171.5	1170.5	1169.5	1168.4	1167.4
147.5°	1227.3	1227.5	1227.7	1227.9	1228.1	1228.3	1227.8	1226.5	1225.3	1224.1	1222.7
150°	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1260.7	1259.7	1258.7	1257.6	1256.6
152.5°	1292.8	1292.2	1292.0	1291.8	1291.6	1291.4	1291.0	1290.3	1289.7	1289.1	1288.5
155°	1337.4	1336.4	1336.6	1336.9	1337.2	1337.4	1337.5	1337.5	1337.5	1337.5	1337.5
157.5°	1377.3	1376.4	1376.5	1376.5	1376.6	1376.6	1377.0	1377.5	1377.9	1378.4	1378.8
160°	1401.7	1400.9	1401.1	1401.4	1401.7	1401.9	1402.2	1402.4	1402.7	1403.0	1403.2
162.5°	1422.9	1421.5	1421.8	1422.1	1422.3	1422.6	1423.0	1423.7	1424.4	1425.0	1425.7
165°	1451.7	1450.2	1450.7	1451.2	1451.7	1452.2	1452.9	1453.7	1454.4	1455.2	1456.0
167.5°	1476.1	1474.5	1474.5	1474.4	1474.4	1474.3	1474.9	1475.9	1477.0	1478.1	1479.3
170°	1489.2	1487.7	1487.4	1487.1	1486.9	1486.6	1487.1	1488.4	1489.8	1491.1	1492.4
172.5°	1498.8	1497.1	1497.0	1497.0	1496.9	1496.8	1497.4	1498.4	1499.5	1500.7	1501.8
175°	1509.4	1507.6	1507.9	1508.1	1508.4	1508.6	1509.4	1510.8	1512.1	1513.4	1514.7
177.5°	1515.7	1514.2	1514.2	1514.2	1514.2	1514.2	1514.7	1515.8	1516.8	1517.8	1518.9
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840
 CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2013.5	2019.2	2025.7	2038.0	2048.3	2052.9	2061.8	2068.3	2066.4	2075.4	2090.8
5°	2021.3	2043.2	2068.1	2094.0	2122.9	2147.2	2166.5	2185.9	2201.2	2219.7	2247.2
7.5°	2020.0	2058.8	2100.8	2147.2	2194.7	2235.8	2273.9	2312.6	2346.9	2384.5	2433.7
10°	2014.9	2066.5	2118.9	2179.4	2239.9	2297.1	2348.7	2397.1	2443.1	2492.2	2554.4
12.5°	2009.1	2068.4	2131.8	2204.5	2279.9	2348.7	2409.3	2479.0	2536.6	2600.0	2671.7
15°	1983.5	2063.3	2149.6	2243.9	2334.2	2426.9	2509.9	2595.5	2675.2	2751.1	2841.4
17.5°	1954.1	2046.2	2148.0	2259.4	2367.9	2480.6	2579.2	2686.8	2768.4	2870.2	2954.1
20°	1930.3	2029.4	2138.3	2263.2	2386.6	2511.5	2620.4	2730.1	2822.0	2924.4	3030.8
22.5°	1901.2	2010.0	2128.0	2257.5	2386.6	2523.1	2643.6	2752.7	2866.5	2981.8	3091.5
25°	1854.4	1967.3	2092.3	2234.2	2382.6	2522.0	2651.1	2786.5	2909.1	3034.0	3132.4
27.5°	1797.1	1915.6	2047.3	2193.7	2346.0	2488.8	2640.8	2785.1	2908.4	3028.7	3114.5
30°	1751.2	1876.2	2002.8	2151.2	2309.2	2462.4	2625.2	2769.6	2899.4	3007.5	3055.9
32.5°	1704.1	1822.7	1953.2	2103.4	2265.3	2430.1	2591.7	2739.3	2859.4	2924.3	2925.5
35°	1622.2	1733.5	1869.0	2016.5	2182.6	2361.6	2525.3	2670.4	2743.8	2749.5	2670.4
37.5°	1532.9	1635.0	1762.8	1910.6	2092.4	2270.5	2437.7	2534.5	2559.0	2476.9	2330.8
40°	1469.1	1563.4	1686.8	1838.4	2018.9	2202.8	2355.2	2426.1	2400.3	2267.2	2104.4
42.5°	1402.0	1489.9	1608.7	1758.4	1939.6	2125.4	2255.2	2293.2	2224.8	2071.2	1880.6
45°	1292.5	1373.1	1490.9	1641.6	1815.7	1989.9	2088.3	2068.9	1955.2	1773.0	1559.3
47.5°	1178.5	1256.4	1362.3	1501.8	1680.1	1830.4	1897.0	1838.7	1676.9	1476.4	1302.6
50°	1103.0	1182.9	1280.4	1413.4	1576.3	1721.4	1764.1	1675.5	1495.6	1302.9	1143.3
52.5°	1028.9	1097.0	1192.7	1321.2	1476.9	1599.5	1622.2	1520.0	1334.4	1161.6	1020.1
55°	915.9	978.1	1058.6	1179.6	1314.2	1418.3	1406.1	1274.8	1106.2	958.7	847.4
57.5°	806.8	853.5	928.1	1041.4	1159.6	1229.4	1185.3	1073.2	916.1	795.4	701.5
60°	734.6	778.1	847.4	946.5	1050.6	1090.0	1053.0	931.3	807.1	696.6	617.6
62.5°	666.1	704.6	764.2	856.3	940.3	963.7	924.0	817.7	705.8	611.5	546.0
65°	566.8	602.3	653.1	718.4	776.5	787.7	761.9	653.1	568.5	489.4	444.2
67.5°	476.7	499.9	539.6	596.0	626.8	633.4	583.6	515.2	440.6	392.0	358.0
70°	416.1	432.1	469.3	499.9	524.9	525.7	479.8	425.0	367.7	328.2	303.2
72.5°	357.4	372.8	400.9	421.8	441.0	434.7	392.6	349.4	303.2	273.4	254.8
75°	275.8	289.4	304.0	313.7	313.7	305.6	275.0	242.7	216.1	198.3	192.7
77.5°	200.5	211.8	216.6	215.1	212.2	199.7	180.3	159.2	149.7	141.3	137.0
80°	157.2	162.1	163.7	159.7	154.8	140.3	127.3	118.6	109.7	106.4	104.8
82.5°	116.5	120.8	116.5	117.8	107.0	95.1	88.1	85.0	81.3	80.0	78.4
85°	62.1	61.3	59.7	55.6	48.4	46.8	45.9	45.1	43.5	44.3	42.7
87.5°	22.5	21.2	19.2	19.1	19.6	18.8	19.8	20.2	20.6	20.3	21.9
90°	6.4	9.3	12.1	14.9	17.5	19.6	21.6	23.7	25.9	27.4	29.0
92.5°	28.4	31.7	34.9	38.3	40.6	42.1	43.5	45.0	46.5	47.4	48.4
95°	72.7	75.1	77.5	79.8	81.9	83.7	85.5	87.4	89.2	90.0	90.7
97.5°	124.8	126.7	128.6	130.5	132.5	134.6	136.7	138.9	141.0	142.0	142.9
100°	165.3	166.3	167.3	168.4	170.2	172.5	174.8	177.1	179.6	180.1	180.6
102.5°	207.8	208.2	208.6	209.1	210.4	212.5	214.7	216.8	218.9	219.6	220.4
105°	273.7	273.9	274.2	274.4	275.1	276.1	277.1	278.2	279.2	280.0	280.8
107.5°	343.0	343.3	343.6	343.9	344.1	344.3	344.4	344.6	344.7	345.5	346.2
110°	390.0	390.5	391.1	391.6	391.7	391.5	391.2	390.9	390.7	390.2	389.6



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	438.5	438.6	438.7	438.8	438.6	438.1	437.7	437.2	436.7	436.6	436.5
115°	511.5	511.5	511.5	511.5	511.3	510.8	510.3	509.7	509.2	509.0	508.7
117.5°	580.8	581.0	581.2	581.4	581.3	580.9	580.6	580.2	579.9	579.0	578.0
120°	627.5	628.6	629.7	630.7	630.9	630.1	629.2	628.4	627.7	626.4	625.1
122.5°	674.8	675.2	675.6	676.1	676.1	675.7	675.4	675.0	674.6	673.8	672.9
125°	745.0	745.0	745.0	745.0	744.9	744.7	744.4	744.1	743.9	743.4	742.8
127.5°	809.9	810.6	811.4	812.2	812.4	811.9	811.5	811.1	810.7	810.2	809.7
130°	855.0	855.7	856.5	857.3	857.7	857.7	857.7	857.7	857.7	857.2	856.6
132.5°	900.7	901.3	901.8	902.4	902.6	902.4	902.2	902.0	901.8	901.2	900.7
135°	962.5	964.0	965.6	967.1	968.0	968.0	968.0	968.0	968.0	967.5	966.9
137.5°	1027.8	1028.5	1029.3	1030.0	1030.6	1031.0	1031.4	1031.8	1032.2	1031.6	1030.9
140°	1071.7	1072.3	1072.8	1073.3	1073.5	1073.5	1073.5	1073.5	1073.5	1073.3	1073.0
142.5°	1112.1	1112.6	1113.1	1113.7	1113.8	1113.6	1113.4	1113.2	1113.0	1112.9	1112.9
145°	1168.4	1169.5	1170.5	1171.5	1172.3	1172.5	1172.8	1173.0	1173.3	1173.0	1172.8
147.5°	1224.1	1225.3	1226.5	1227.8	1228.3	1228.1	1227.9	1227.7	1227.5	1227.3	1227.1
150°	1257.6	1258.7	1259.7	1260.7	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2	1261.2
152.5°	1289.1	1289.7	1290.3	1291.0	1291.4	1291.6	1291.8	1292.0	1292.2	1292.8	1293.4
155°	1337.5	1337.5	1337.5	1337.5	1337.4	1337.2	1336.9	1336.6	1336.4	1337.4	1338.5
157.5°	1378.4	1377.9	1377.5	1377.0	1376.6	1376.6	1376.5	1376.5	1376.4	1377.3	1378.1
160°	1403.0	1402.7	1402.4	1402.2	1401.9	1401.7	1401.4	1401.1	1400.9	1401.7	1402.4
162.5°	1425.0	1424.4	1423.7	1423.0	1422.6	1422.3	1422.1	1421.8	1421.5	1422.9	1424.3
165°	1455.2	1454.4	1453.7	1452.9	1452.2	1451.7	1451.2	1450.7	1450.2	1451.7	1453.3
167.5°	1478.1	1477.0	1475.9	1474.9	1474.3	1474.4	1474.4	1474.5	1474.5	1476.1	1477.6
170°	1491.1	1489.8	1488.4	1487.1	1486.6	1486.9	1487.1	1487.4	1487.7	1489.2	1490.9
172.5°	1500.7	1499.5	1498.4	1497.4	1496.8	1496.9	1497.0	1497.0	1497.1	1498.8	1500.7
175°	1513.4	1512.1	1510.8	1509.4	1508.6	1508.4	1508.1	1507.9	1507.6	1509.4	1511.3
177.5°	1517.8	1516.8	1515.8	1514.7	1514.2	1514.2	1514.2	1514.2	1514.2	1515.7	1517.1
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2	2001.2
2.5°	2099.2	2101.8	2103.8	2110.2	2110.8	2116.7	2110.8
5°	2272.9	2284.2	2302.0	2319.7	2321.3	2332.6	2312.4
7.5°	2467.7	2493.9	2510.1	2538.8	2550.1	2557.2	2545.6
10°	2601.9	2626.1	2668.8	2689.8	2710.8	2713.9	2704.3
12.5°	2731.6	2770.0	2803.6	2843.3	2842.4	2870.7	2860.3
15°	2904.3	2943.8	2990.5	3034.8	3051.0	3051.0	3063.9
17.5°	3027.5	3099.9	3148.3	3183.1	3221.1	3227.7	3223.2
20°	3110.7	3188.9	3240.5	3285.6	3311.4	3318.7	3318.7
22.5°	3172.6	3239.1	3289.5	3330.1	3351.4	3359.9	3357.4
25°	3215.5	3272.7	3303.4	3315.5	3321.0	3319.5	3304.2
27.5°	3156.7	3154.2	3134.8	3097.8	3069.9	3052.9	3033.5
30°	3044.5	3002.6	2954.3	2901.0	2832.5	2780.1	2763.9
32.5°	2877.5	2783.3	2701.4	2612.7	2539.0	2486.6	2464.7
35°	2554.4	2405.2	2283.4	2177.0	2099.6	2051.2	2035.1
37.5°	2170.8	2026.5	1875.7	1772.5	1708.4	1659.5	1641.2
40°	1927.0	1769.8	1638.4	1541.7	1475.5	1427.9	1427.1
42.5°	1704.5	1554.4	1430.7	1361.0	1289.7	1258.3	1258.1
45°	1395.6	1275.6	1170.7	1115.9	1073.2	1047.3	1040.1
47.5°	1155.6	1056.2	986.4	942.7	907.9	891.4	880.8
50°	1020.8	933.7	878.1	840.1	820.8	799.8	798.2
52.5°	908.5	838.2	794.9	764.1	739.5	726.9	727.3
55°	763.6	707.9	677.3	653.9	634.5	624.9	620.9
57.5°	643.3	601.5	579.3	557.7	549.6	542.0	539.9
60°	568.5	540.2	519.3	502.3	490.2	487.8	487.0
62.5°	506.5	477.0	462.5	449.4	440.6	436.9	435.4
65°	417.7	395.9	382.9	372.5	369.3	363.7	362.8
67.5°	336.7	323.7	315.1	307.8	303.5	303.2	303.2
70°	287.0	279.7	272.6	268.5	266.1	264.5	264.5
72.5°	244.5	239.1	233.2	231.1	230.6	228.9	228.3
75°	186.2	180.6	181.4	177.4	174.2	170.2	167.7
77.5°	132.1	128.1	127.2	126.7	124.0	123.5	124.8
80°	102.4	98.4	97.6	98.4	97.6	95.1	95.1
82.5°	77.9	74.5	73.7	73.2	72.4	73.2	71.9
85°	41.9	40.3	40.3	40.3	41.9	41.1	40.3
87.5°	20.9	20.6	21.4	20.9	21.0	20.5	21.2
90°	30.5	32.1	33.1	33.6	34.1	34.6	35.2
92.5°	49.3	50.2	50.8	51.2	51.5	51.8	52.1
95°	91.5	92.3	92.7	92.7	92.7	92.7	92.7
97.5°	143.8	144.8	145.2	145.2	145.2	145.2	145.2
100°	181.1	181.6	181.9	181.9	181.9	181.9	181.9
102.5°	221.2	221.9	222.3	222.6	222.8	223.0	223.2
105°	281.6	282.4	283.2	284.0	284.7	285.5	286.3
107.5°	346.9	347.6	348.0	347.9	347.9	347.8	347.8
110°	389.1	388.6	388.7	389.5	390.3	391.1	391.8



TEST NUMBER: P333010-840

CATALOG NUMBER: SA4XXRDIP-C1195D1205U840-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	436.4	436.3	436.3	436.5	436.6	436.8	437.0
115°	508.4	508.2	507.9	507.7	507.4	507.2	506.9
117.5°	577.1	576.2	575.6	575.0	574.5	574.0	573.5
120°	623.8	622.5	622.1	622.6	623.1	623.7	624.2
122.5°	672.0	671.1	670.1	669.2	668.3	667.3	666.4
125°	742.3	741.7	741.2	740.7	740.2	739.6	739.1
127.5°	809.2	808.6	808.2	807.8	807.3	806.9	806.5
130°	856.1	855.6	854.7	853.7	852.7	851.6	850.6
132.5°	900.2	899.7	899.2	898.8	898.4	898.0	897.6
135°	966.3	965.8	965.2	964.4	963.6	962.8	962.1
137.5°	1030.2	1029.6	1029.3	1029.5	1029.6	1029.8	1029.9
140°	1072.8	1072.5	1072.3	1072.0	1071.7	1071.5	1071.2
142.5°	1112.8	1112.8	1112.7	1112.7	1112.6	1112.6	1112.5
145°	1172.5	1172.3	1171.6	1170.9	1170.1	1169.3	1168.6
147.5°	1226.9	1226.6	1226.4	1226.2	1225.9	1225.6	1225.4
150°	1261.2	1261.2	1261.1	1260.8	1260.6	1260.3	1260.1
152.5°	1294.1	1294.7	1294.7	1294.0	1293.3	1292.6	1292.0
155°	1339.5	1340.5	1340.5	1339.5	1338.5	1337.4	1336.4
157.5°	1378.8	1379.6	1379.6	1378.7	1377.8	1376.8	1376.0
160°	1403.2	1404.0	1403.7	1402.4	1401.1	1399.9	1398.6
162.5°	1425.7	1427.1	1427.2	1425.9	1424.6	1423.3	1422.0
165°	1454.8	1456.4	1456.6	1455.6	1454.6	1453.5	1452.5
167.5°	1479.3	1480.8	1480.8	1479.1	1477.5	1475.9	1474.3
170°	1492.4	1494.0	1493.8	1492.0	1490.2	1488.3	1486.5
172.5°	1502.4	1504.2	1504.2	1502.3	1500.5	1498.6	1496.8
175°	1513.1	1514.9	1514.9	1513.1	1511.3	1509.4	1507.6
177.5°	1518.6	1520.0	1519.9	1518.2	1516.6	1514.9	1513.3
180°	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0	1517.0

(END OF REPORT)