

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: P331760

Luminaire Tested: **S122RDIP-S1005D1080U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331760
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 1005 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1080 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7665.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

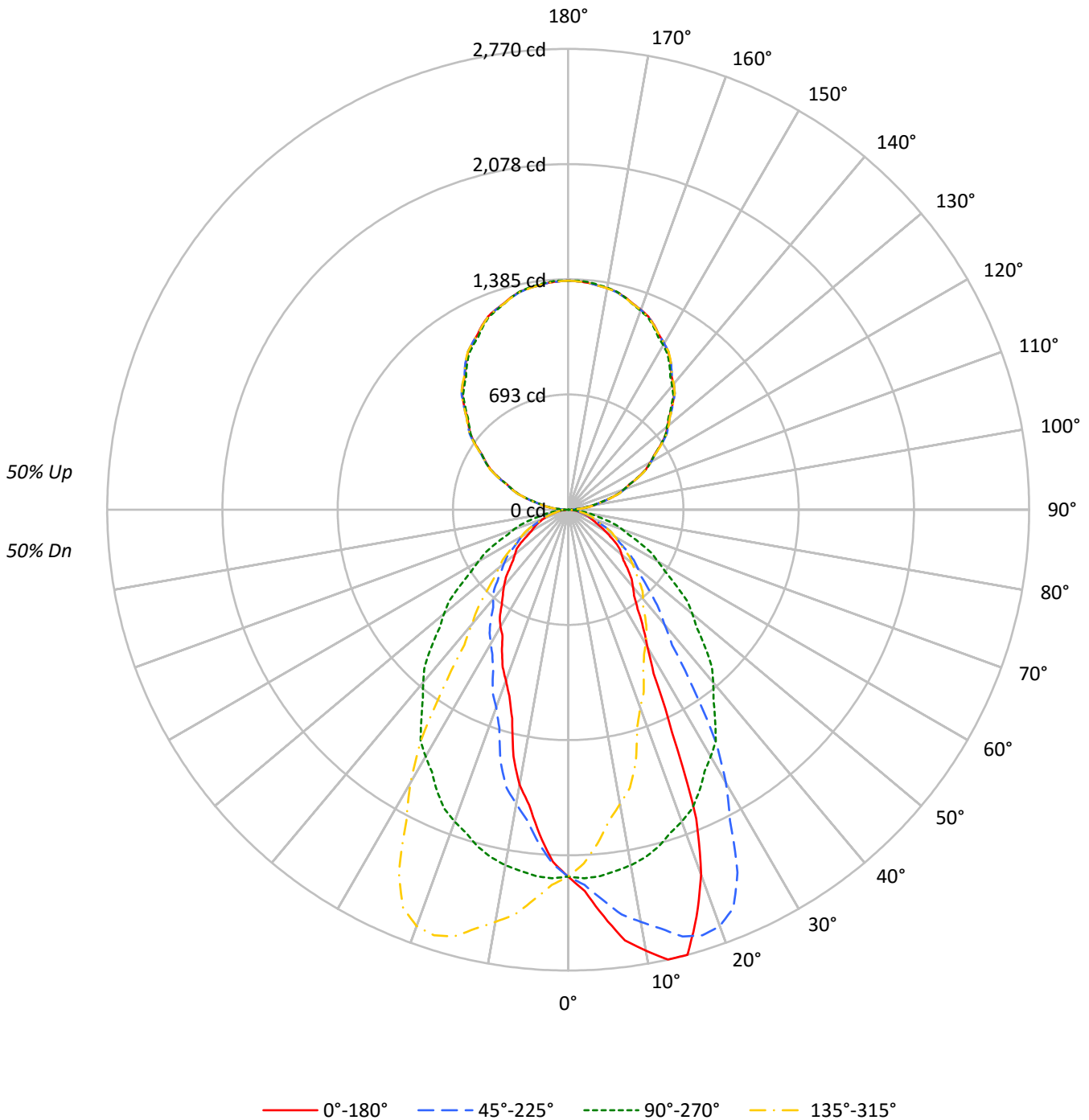
Input Watts (W): 71.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	91	88	91	87	84	81	74	72	70	62	60	59	51	50	49	43
2	90	83	78	73	83	77	72	68	66	62	59	55	53	50	46	44	42	38
3	83	74	67	62	76	69	63	58	59	54	51	50	46	44	41	39	37	33
4	76	66	59	53	70	62	55	50	53	48	44	45	41	38	37	35	33	29
5	70	59	52	46	65	55	49	44	48	43	39	41	37	34	34	31	29	26
6	65	54	46	40	60	50	43	38	43	38	34	37	33	30	31	28	26	23
7	61	49	41	36	56	46	39	34	40	34	31	34	30	27	29	26	24	21
8	56	45	37	32	52	42	35	31	36	31	27	31	27	24	27	24	21	19
9	53	41	34	29	49	38	32	28	34	29	25	29	25	22	25	22	20	18
10	49	38	31	26	46	36	29	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	35608	35608	35608	35608
5°	39768	35832	31770	35832
10°	44124	35580	27539	35580
15°	46292	35059	21698	35059
20°	40132	34287	18777	34287
25°	26320	33228	16764	33228
30°	17715	31946	15172	31946
35°	14349	30328	13685	30328
40°	12760	28572	12663	28572
45°	11549	26510	11303	26510
50°	10510	24465	10472	24465
55°	9880	22196	9751	22196
60°	8263	20118	8167	20118
65°	6968	18269	7904	18269
70°	6439	16315	7454	16315
75°	6026	14198	6881	14198
80°	5560	11688	6127	11688
85°	5113	9226	5391	9226



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CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	2.7
10°-20°	582.5	7.6
20°-30°	750.7	9.8
30°-40°	713.4	9.3
40°-50°	611.1	8.0
50°-60°	465.4	6.1
60°-70°	294.2	3.8
70°-80°	146.9	1.9
80°-90°	43.7	0.6
90°-100°	87.2	1.1
100°-110°	270.9	3.5
110°-120°	463.1	6.0
120°-130°	608.9	7.9
130°-140°	683.5	8.9
140°-150°	670.1	8.7
150°-160°	562.1	7.3
160°-170°	372.8	4.9
170°-180°	130.3	1.7
0°-30°	1542.3	20.1
0°-40°	2255.7	29.4
0°-60°	3332.1	43.5
0°-90°	3817.0	49.8
90°-120°	821.2	10.7
90°-150°	2783.7	36.3
90°-180°	3849.0	50.2
0°-180°	7665.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2205	2205	2205	2205	2205	
5°	2454	2211	1960	2211	2454	242
15°	2769	2097	1298	2097	2769	747
25°	1477	1865	941	1865	1477	701
35°	728	1539	694	1539	728	466
45°	506	1161	495	1161	506	391
55°	351	788	346	788	351	308
65°	182	478	207	478	182	186
75°	97	228	110	228	97	102
85°	28	50	29	50	28	31
90°	40	1	40	1	40	18
95°	72	60	72	60	72	80
105°	258	250	258	250	258	271
115°	465	465	465	465	465	459
125°	678	676	678	676	678	605
135°	885	875	885	875	885	681
145°	1073	1062	1073	1062	1073	670
155°	1223	1214	1223	1214	1223	563
165°	1322	1321	1322	1321	1322	373
175°	1370	1374	1370	1374	1370	130
180°	1376	1376	1376	1376	1376	



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2294.9	2296.8	2298.6	2294.3	2294.3	2290.6	2282.7	2276.5	2259.4	2256.9	2256.9
5°	2453.7	2452.2	2455.2	2445.3	2431.5	2428.4	2413.9	2394.7	2374.8	2352.6	2348.0
7.5°	2611.6	2609.3	2603.1	2601.5	2590.9	2567.7	2544.3	2519.3	2486.2	2453.9	2437.6
10°	2691.3	2716.6	2701.2	2674.4	2679.8	2643.8	2624.6	2591.7	2564.1	2515.8	2505.1
12.5°	2769.7	2779.7	2774.8	2759.6	2752.7	2727.7	2701.8	2673.2	2622.3	2578.9	2541.2
15°	2769.4	2784.0	2787.8	2783.2	2787.1	2785.5	2771.7	2748.0	2703.5	2656.0	2614.6
17.5°	2565.0	2575.1	2600.2	2617.2	2638.7	2684.1	2706.4	2715.2	2708.6	2681.5	2652.3
20°	2335.7	2318.8	2389.3	2425.4	2456.0	2532.6	2598.5	2623.8	2664.4	2663.7	2656.0
22.5°	2010.8	2014.8	2081.6	2124.4	2213.9	2290.5	2365.6	2460.8	2539.4	2591.3	2621.7
25°	1477.4	1506.6	1573.2	1631.5	1731.1	1873.6	2003.1	2153.3	2295.1	2407.0	2513.5
27.5°	1109.6	1111.8	1164.6	1218.4	1277.6	1394.4	1557.4	1736.8	1938.9	2105.7	2297.5
30°	950.2	945.6	967.8	1000.8	1051.4	1141.8	1264.4	1440.7	1642.2	1893.5	2117.3
32.5°	837.4	837.7	854.4	878.8	920.8	981.8	1065.8	1208.9	1399.4	1646.5	1908.9
35°	728.0	727.2	739.5	757.1	774.7	813.8	871.3	946.4	1077.4	1308.1	1576.3
37.5°	649.5	652.9	658.9	669.9	689.4	711.1	745.6	796.0	889.4	1025.8	1251.2
40°	605.4	606.9	615.3	624.5	636.0	652.9	681.2	721.9	790.1	898.9	1063.6
42.5°	564.9	566.5	572.4	581.0	590.1	606.9	630.4	665.5	720.8	805.7	941.6
45°	505.8	505.8	511.1	515.0	524.9	540.2	559.4	588.5	626.8	689.7	780.1
47.5°	450.3	450.4	454.0	460.6	466.8	478.8	497.6	521.4	549.3	597.9	675.1
50°	418.4	419.2	421.5	426.8	430.7	441.4	456.0	476.6	505.8	543.3	607.7
52.5°	392.7	392.2	395.1	397.4	400.0	407.7	418.6	436.8	462.8	495.5	548.8
55°	351.0	347.9	352.5	356.3	358.6	361.7	367.8	379.3	401.5	429.1	469.0
57.5°	298.9	297.6	300.9	304.4	311.6	319.9	325.1	332.4	343.9	363.7	403.2
60°	255.9	255.9	262.8	265.1	273.6	284.3	295.0	301.2	312.7	325.7	354.8
62.5°	217.9	218.6	221.8	224.1	228.8	242.0	257.0	270.5	281.4	293.8	313.1
65°	182.4	183.9	183.9	185.4	188.5	191.6	197.7	208.4	227.6	245.2	259.8
67.5°	154.8	155.3	155.7	157.2	158.0	161.4	163.8	168.6	173.0	189.7	207.8
70°	136.4	138.7	137.9	139.5	140.2	141.8	144.8	147.1	154.0	157.9	168.6
72.5°	119.2	120.9	120.8	121.7	123.7	124.0	126.4	128.7	133.2	136.4	142.2
75°	96.6	95.8	96.6	98.1	98.9	99.6	99.6	102.7	105.0	108.0	111.9
77.5°	74.5	75.3	75.1	75.3	75.4	76.8	76.6	78.0	80.3	81.8	83.7
80°	59.8	60.5	59.8	60.5	61.3	62.1	61.3	62.1	64.4	65.9	65.9
82.5°	46.3	46.4	46.9	47.1	47.2	47.4	48.4	48.6	50.3	50.0	50.6
85°	27.6	26.8	26.8	26.8	27.6	28.4	27.6	27.6	28.4	28.4	28.4
87.5°	17.7	18.3	18.2	18.2	18.1	18.1	18.2	19.0	18.4	19.2	17.4
90°	39.5	39.2	39.0	38.7	38.5	38.6	39.1	39.6	40.1	40.7	35.0
92.5°	37.6	37.6	37.5	37.5	37.4	37.4	37.2	37.1	37.0	36.9	35.6
95°	72.0	72.5	73.1	73.6	74.1	74.3	74.3	74.3	74.3	74.3	73.8
97.5°	124.8	124.8	124.9	124.9	125.0	125.0	125.0	125.0	125.0	125.0	124.0
100°	159.1	159.4	159.7	159.9	160.2	160.3	160.3	160.3	160.3	160.3	159.5
102.5°	198.2	198.4	198.7	198.9	199.2	199.2	199.0	198.8	198.6	198.4	197.4
105°	257.9	257.9	257.9	257.9	257.9	257.6	257.1	256.6	256.1	255.5	255.0
107.5°	314.1	315.3	316.5	317.7	318.8	319.3	319.1	318.9	318.7	318.5	318.5
110°	357.8	358.5	359.3	360.1	360.9	361.3	361.3	361.3	361.3	361.3	361.3



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	399.6	400.2	400.7	401.3	401.9	402.5	403.1	403.7	404.3	404.9	405.1
115°	464.6	465.4	466.2	467.0	467.7	468.2	468.5	468.8	469.0	469.3	469.8
117.5°	526.7	527.4	528.2	529.0	529.8	530.5	531.1	531.7	532.3	532.9	534.4
120°	570.3	571.1	571.9	572.7	573.4	573.8	573.8	573.8	573.8	573.8	575.9
122.5°	613.1	613.7	614.2	614.8	615.4	615.9	616.6	617.2	617.8	618.4	619.9
125°	678.4	678.6	678.9	679.1	679.4	679.9	680.7	681.5	682.2	683.0	683.8
127.5°	737.8	738.7	739.5	740.3	741.1	742.0	742.9	743.9	744.8	745.7	746.7
130°	780.6	781.6	782.6	783.7	784.7	785.5	786.0	786.5	787.0	787.6	788.1
132.5°	821.5	822.3	823.1	824.0	824.8	825.8	826.9	828.0	829.2	830.3	830.2
135°	885.1	885.9	886.7	887.4	888.2	888.7	889.0	889.3	889.5	889.8	889.3
137.5°	942.7	943.8	944.8	945.8	946.9	947.5	947.7	947.9	948.1	948.3	947.6
140°	982.7	983.7	984.8	985.8	986.8	987.3	987.3	987.3	987.3	987.3	986.1
142.5°	1018.9	1020.0	1021.0	1022.0	1023.1	1023.5	1023.3	1023.1	1022.9	1022.7	1021.8
145°	1073.3	1074.3	1075.4	1076.4	1077.4	1077.8	1077.6	1077.3	1077.0	1076.8	1075.2
147.5°	1121.9	1122.8	1123.8	1124.8	1125.8	1126.0	1125.4	1124.9	1124.3	1123.7	1122.7
150°	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6	1155.8	1155.0	1154.2	1153.5	1152.4
152.5°	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1	1186.1	1185.2	1184.2	1183.2	1182.0
155°	1223.1	1223.9	1224.7	1225.5	1226.2	1226.0	1224.7	1223.4	1222.1	1220.8	1220.1
157.5°	1257.5	1258.8	1260.0	1261.2	1262.5	1262.2	1260.5	1258.7	1257.0	1255.2	1254.7
160°	1278.9	1279.9	1281.0	1282.0	1283.0	1282.8	1281.2	1279.7	1278.1	1276.6	1276.3
162.5°	1297.5	1298.7	1300.0	1301.2	1302.4	1302.2	1300.4	1298.7	1296.9	1295.2	1294.9
165°	1321.9	1323.2	1324.5	1325.8	1327.0	1326.8	1325.0	1323.2	1321.4	1319.6	1319.6
167.5°	1341.9	1343.2	1344.5	1345.9	1347.2	1347.0	1345.2	1343.4	1341.6	1339.8	1339.8
170°	1352.1	1353.6	1355.2	1356.7	1358.3	1358.1	1356.3	1354.5	1352.7	1350.9	1351.2
172.5°	1360.4	1362.0	1363.5	1365.1	1366.6	1366.5	1364.7	1362.9	1361.1	1359.3	1359.5
175°	1369.5	1371.1	1372.6	1374.2	1375.7	1375.6	1373.8	1372.0	1370.2	1368.3	1368.9
177.5°	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6	1377.4	1376.2	1374.9	1373.7	1374.1
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2258.2	2253.2	2249.0	2237.9	2232.4	2220.1	2218.3	2217.7	2201.8	2186.4	2182.1
5°	2335.7	2323.4	2305.1	2283.6	2261.4	2238.4	2223.1	2210.8	2180.1	2151.0	2134.2
7.5°	2413.9	2387.5	2355.8	2315.2	2281.3	2243.3	2215.1	2189.8	2146.3	2104.6	2076.5
10°	2472.1	2429.2	2387.0	2331.1	2287.4	2244.5	2204.7	2170.2	2121.1	2066.0	2026.9
12.5°	2508.3	2461.1	2403.0	2348.3	2291.7	2237.2	2183.8	2139.5	2081.9	2024.9	1978.5
15°	2557.2	2506.6	2436.1	2357.9	2285.1	2213.9	2152.6	2097.4	2022.3	1954.1	1897.4
17.5°	2597.2	2527.6	2451.9	2361.5	2277.2	2186.6	2107.7	2037.2	1953.6	1871.3	1804.5
20°	2610.0	2541.1	2453.7	2363.3	2263.7	2157.2	2072.1	1995.5	1905.8	1816.1	1739.5
22.5°	2602.1	2548.4	2451.3	2343.1	2241.0	2129.6	2033.5	1944.6	1845.1	1753.6	1664.7
25°	2548.0	2529.6	2437.6	2319.6	2203.1	2073.6	1962.5	1865.2	1751.8	1653.7	1557.1
27.5°	2421.8	2461.5	2404.5	2278.8	2149.3	2010.5	1885.6	1774.8	1657.1	1546.7	1450.5
30°	2300.5	2391.6	2367.1	2250.6	2105.8	1969.4	1829.2	1713.5	1587.8	1474.4	1379.4
32.5°	2134.3	2285.0	2308.9	2211.4	2061.7	1911.8	1764.8	1649.7	1518.5	1399.0	1306.4
35°	1869.8	2095.1	2198.5	2136.5	1986.3	1824.6	1672.8	1538.7	1406.9	1288.9	1197.0
37.5°	1554.2	1861.1	2033.5	2037.9	1900.0	1731.9	1566.6	1433.5	1298.6	1182.7	1083.3
40°	1349.5	1682.0	1906.6	1956.4	1839.9	1658.3	1491.2	1355.6	1223.8	1110.4	996.2
42.5°	1165.6	1496.9	1772.9	1859.5	1767.0	1586.6	1418.9	1277.1	1149.0	1041.7	925.1
45°	942.6	1232.2	1536.4	1691.2	1639.9	1472.8	1295.8	1161.0	1040.6	947.9	836.0
47.5°	795.1	999.3	1293.7	1503.0	1502.1	1349.6	1175.5	1046.3	934.7	847.8	757.3
50°	711.1	888.9	1138.0	1375.5	1395.4	1267.5	1101.9	974.0	869.8	778.6	705.8
52.5°	635.7	782.2	1006.2	1233.9	1290.6	1179.8	1019.2	901.0	799.9	716.0	653.7
55°	537.2	650.6	820.7	1033.7	1119.6	1041.4	898.9	788.5	706.5	636.0	582.4
57.5°	454.4	539.5	676.0	847.5	947.5	898.3	780.7	691.1	620.9	557.1	514.8
60°	402.3	472.0	587.8	731.1	841.4	806.9	706.5	623.0	563.2	508.1	468.2
62.5°	353.3	413.2	512.4	628.7	729.8	715.6	633.6	563.5	511.1	460.9	427.1
65°	284.3	328.0	405.4	496.6	577.8	584.7	525.7	478.2	431.4	391.6	361.7
67.5°	226.4	254.9	309.4	386.2	447.1	468.8	432.8	396.5	359.4	328.6	302.7
70°	190.8	213.8	253.6	315.7	371.7	394.6	374.0	345.6	313.4	288.1	265.9
72.5°	154.6	177.0	206.4	252.0	299.9	324.8	317.6	297.2	271.1	250.1	229.1
75°	116.5	123.4	143.3	174.0	211.5	233.0	238.3	227.6	206.9	190.8	178.5
77.5°	86.1	90.3	99.8	115.9	140.4	159.5	167.4	166.1	151.9	142.5	131.0
80°	69.0	71.3	75.9	82.8	101.2	120.3	125.7	125.7	115.7	111.9	100.4
82.5°	52.4	54.1	56.9	60.7	69.3	86.0	92.0	93.2	86.9	81.8	72.8
85°	29.9	29.1	30.7	33.0	34.5	39.1	48.3	49.8	48.3	42.1	39.8
87.5°	16.3	15.8	14.6	13.1	13.1	13.1	15.6	18.0	16.2	15.0	14.4
90°	29.3	23.6	17.9	13.6	10.5	7.4	4.3	1.2	4.3	7.4	10.5
92.5°	34.3	32.9	31.6	29.8	27.5	25.2	22.9	20.7	22.9	25.2	27.5
95°	73.3	72.8	72.3	70.7	68.1	65.6	63.0	60.4	63.0	65.6	68.1
97.5°	123.0	122.0	121.1	119.4	117.2	114.9	112.6	110.4	112.6	114.9	117.2
100°	158.7	158.0	157.2	155.8	153.7	151.7	149.6	147.5	149.6	151.7	153.7
102.5°	196.4	195.5	194.5	193.2	191.5	189.9	188.2	186.6	188.2	189.9	191.5
105°	254.5	254.0	253.5	252.8	252.1	251.3	250.5	249.7	250.5	251.3	252.1
107.5°	318.5	318.5	318.5	317.9	316.8	315.7	314.5	313.4	314.5	315.7	316.8
110°	361.3	361.3	361.3	360.5	358.9	357.4	355.8	354.3	355.8	357.4	358.9



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	405.3	405.5	405.8	405.1	403.5	402.0	400.4	398.9	400.4	402.0	403.5
115°	470.3	470.8	471.3	470.8	469.3	467.7	466.2	464.6	466.2	467.7	469.3
117.5°	535.8	537.3	538.7	538.4	536.3	534.3	532.2	530.1	532.2	534.3	536.3
120°	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8	575.9	578.0	580.0
122.5°	621.3	622.8	624.2	623.7	621.2	618.7	616.3	613.8	616.3	618.7	621.2
125°	684.6	685.3	686.1	685.3	683.0	680.7	678.4	676.0	678.4	680.7	683.0
127.5°	747.6	748.5	749.5	748.4	745.5	742.6	739.6	736.7	739.6	742.6	745.5
130°	788.6	789.1	789.6	788.2	784.8	781.5	778.1	774.8	778.1	781.5	784.8
132.5°	830.1	830.0	829.9	828.5	825.7	823.0	820.3	817.5	820.3	823.0	825.7
135°	888.7	888.2	887.7	886.0	883.2	880.4	877.5	874.7	877.5	880.4	883.2
137.5°	947.0	946.3	945.6	944.1	941.8	939.5	937.2	934.8	937.2	939.5	941.8
140°	984.8	983.5	982.2	980.4	978.1	975.7	973.4	971.1	973.4	975.7	978.1
142.5°	1020.9	1020.0	1019.1	1017.5	1015.2	1012.9	1010.6	1008.3	1010.6	1012.9	1015.2
145°	1073.7	1072.1	1070.6	1068.9	1067.1	1065.3	1063.5	1061.7	1063.5	1065.3	1067.1
147.5°	1121.7	1120.6	1119.6	1118.0	1115.8	1113.6	1111.5	1109.3	1111.5	1113.6	1115.8
150°	1151.4	1150.4	1149.3	1148.0	1146.5	1144.9	1143.4	1141.8	1143.4	1144.9	1146.5
152.5°	1180.7	1179.5	1178.2	1176.8	1175.3	1173.7	1172.2	1170.6	1172.2	1173.7	1175.3
155°	1219.3	1218.5	1217.7	1217.0	1216.2	1215.4	1214.6	1213.9	1214.6	1215.4	1216.2
157.5°	1254.3	1253.8	1253.3	1252.9	1252.3	1251.8	1251.3	1250.8	1251.3	1251.8	1252.3
160°	1276.1	1275.8	1275.5	1275.2	1274.6	1274.1	1273.6	1273.1	1273.6	1274.1	1274.6
162.5°	1294.6	1294.4	1294.1	1294.0	1293.8	1293.7	1293.6	1293.5	1293.6	1293.7	1293.8
165°	1319.6	1319.6	1319.6	1319.7	1319.9	1320.2	1320.5	1320.7	1320.5	1320.2	1319.9
167.5°	1339.9	1339.9	1340.0	1340.4	1341.2	1341.9	1342.7	1343.5	1342.7	1341.9	1341.2
170°	1351.4	1351.7	1352.0	1352.5	1353.2	1354.0	1354.8	1355.6	1354.8	1354.0	1353.2
172.5°	1359.8	1360.1	1360.3	1360.8	1361.6	1362.4	1363.2	1363.9	1363.2	1362.4	1361.6
175°	1369.4	1369.9	1370.4	1371.1	1371.8	1372.6	1373.4	1374.2	1373.4	1372.6	1371.8
177.5°	1374.5	1374.9	1375.3	1375.9	1376.5	1377.1	1377.7	1378.3	1377.7	1377.1	1376.5
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2174.2	2169.9	2161.9	2149.6	2142.3	2129.4	2120.8	2125.7	2127.0	2125.7	2124.5
5°	2115.8	2099.7	2077.5	2056.0	2036.1	2014.6	2002.4	1997.0	1986.3	1980.1	1977.1
7.5°	2045.1	2017.4	1986.0	1948.6	1916.8	1883.6	1866.6	1858.1	1836.2	1824.3	1813.8
10°	1992.4	1948.7	1917.3	1868.3	1838.4	1794.7	1764.8	1765.6	1735.7	1718.8	1706.6
12.5°	1934.2	1886.2	1833.9	1789.8	1748.3	1713.2	1677.1	1662.6	1630.9	1614.6	1581.5
15°	1837.6	1781.7	1726.5	1666.7	1624.6	1570.2	1518.1	1454.5	1403.1	1358.7	1346.4
17.5°	1732.2	1662.9	1607.6	1537.4	1465.2	1373.7	1313.3	1276.4	1245.4	1222.0	1204.5
20°	1659.8	1589.3	1530.3	1424.6	1327.2	1265.2	1220.7	1192.4	1160.2	1134.9	1121.1
22.5°	1583.8	1510.2	1429.8	1311.8	1235.9	1186.1	1146.5	1113.9	1092.1	1072.4	1059.8
25°	1475.9	1395.4	1262.9	1181.6	1120.3	1068.2	1040.6	1020.7	997.7	970.9	958.7
27.5°	1361.9	1233.9	1138.7	1078.3	1019.8	985.9	961.1	931.4	910.8	898.7	886.0
30°	1276.7	1148.7	1074.4	1008.5	967.1	929.5	900.4	883.6	863.6	842.9	834.5
32.5°	1181.6	1079.4	1008.2	953.3	911.3	879.3	856.3	829.0	814.6	801.9	784.2
35°	1063.6	986.2	921.1	876.7	836.8	810.8	783.9	767.8	741.8	731.1	724.2
37.5°	963.7	896.6	848.0	801.1	769.5	740.7	724.3	698.7	687.4	672.5	658.0
40°	907.3	841.4	794.7	756.3	721.1	699.6	678.9	658.3	641.4	634.5	616.9
42.5°	849.7	796.0	749.3	707.3	683.7	661.0	634.8	619.6	602.2	591.0	580.1
45°	770.1	722.6	682.8	648.3	622.2	598.5	581.6	556.3	546.4	524.2	515.0
47.5°	700.3	656.1	618.1	585.3	559.9	544.4	519.7	499.9	484.0	470.4	458.6
50°	650.6	613.8	577.0	547.9	524.9	502.7	477.4	467.4	442.9	436.0	429.1
52.5°	605.2	570.3	536.6	508.1	485.1	463.5	441.2	428.2	411.7	404.8	399.7
55°	541.8	508.1	475.9	450.6	427.6	405.4	391.6	375.5	367.8	362.5	356.3
57.5°	478.0	447.7	423.0	397.4	374.3	356.6	340.7	331.0	323.1	316.0	308.7
60°	437.6	408.4	386.2	362.5	338.7	324.1	311.9	300.4	291.2	280.5	277.4
62.5°	394.6	369.2	348.8	325.7	305.0	291.7	280.0	269.1	258.1	242.5	238.2
65°	335.6	315.7	294.3	275.1	256.7	243.7	226.8	214.6	210.0	208.4	207.7
67.5°	282.3	263.5	245.1	225.4	208.7	196.6	188.1	186.2	183.0	182.1	179.9
70°	246.8	229.1	210.7	192.3	176.3	174.0	170.9	167.8	164.0	162.5	160.9
72.5°	214.9	196.6	178.2	163.5	156.6	153.7	150.7	147.6	145.0	143.5	142.5
75°	164.8	147.9	135.6	130.3	126.4	124.1	119.5	117.2	115.7	113.4	112.6
77.5°	118.6	109.1	103.5	100.1	96.1	93.6	91.0	88.7	87.1	86.6	85.4
80°	90.4	85.8	82.0	77.4	75.9	72.8	72.0	69.7	70.5	68.2	68.2
82.5°	70.2	64.4	61.2	59.0	57.5	55.0	54.3	53.2	53.3	51.6	51.6
85°	36.0	34.5	33.0	31.4	31.4	29.1	29.9	29.1	29.1	27.6	26.8
87.5°	14.4	14.6	14.5	15.7	16.8	17.3	17.2	16.5	16.4	16.3	15.7
90°	13.6	17.9	23.6	29.3	35.0	40.7	40.1	39.6	39.1	38.6	38.5
92.5°	29.8	31.6	32.9	34.3	35.6	36.9	37.0	37.1	37.2	37.4	37.4
95°	70.7	72.3	72.8	73.3	73.8	74.3	74.3	74.3	74.3	74.3	74.1
97.5°	119.4	121.1	122.0	123.0	124.0	125.0	125.0	125.0	125.0	125.0	125.0
100°	155.8	157.2	158.0	158.7	159.5	160.3	160.3	160.3	160.3	160.3	160.2
102.5°	193.2	194.5	195.5	196.4	197.4	198.4	198.6	198.8	199.0	199.2	199.2
105°	252.8	253.5	254.0	254.5	255.0	255.5	256.1	256.6	257.1	257.6	257.9
107.5°	317.9	318.5	318.5	318.5	318.5	318.5	318.7	318.9	319.1	319.3	318.8
110°	360.5	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	360.9



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	405.1	405.8	405.5	405.3	405.1	404.9	404.3	403.7	403.1	402.5	401.9
115°	470.8	471.3	470.8	470.3	469.8	469.3	469.0	468.8	468.5	468.2	467.7
117.5°	538.4	538.7	537.3	535.8	534.4	532.9	532.3	531.7	531.1	530.5	529.8
120°	582.1	582.1	580.0	578.0	575.9	573.8	573.8	573.8	573.8	573.8	573.4
122.5°	623.7	624.2	622.8	621.3	619.9	618.4	617.8	617.2	616.6	615.9	615.4
125°	685.3	686.1	685.3	684.6	683.8	683.0	682.2	681.5	680.7	679.9	679.4
127.5°	748.4	749.5	748.5	747.6	746.7	745.7	744.8	743.9	742.9	742.0	741.1
130°	788.2	789.6	789.1	788.6	788.1	787.6	787.0	786.5	786.0	785.5	784.7
132.5°	828.5	829.9	830.0	830.1	830.2	830.3	829.2	828.0	826.9	825.8	824.8
135°	886.0	887.7	888.2	888.7	889.3	889.8	889.5	889.3	889.0	888.7	888.2
137.5°	944.1	945.6	946.3	947.0	947.6	948.3	948.1	947.9	947.7	947.5	946.9
140°	980.4	982.2	983.5	984.8	986.1	987.3	987.3	987.3	987.3	987.3	986.8
142.5°	1017.5	1019.1	1020.0	1020.9	1021.8	1022.7	1022.9	1023.1	1023.3	1023.5	1023.1
145°	1068.9	1070.6	1072.1	1073.7	1075.2	1076.8	1077.0	1077.3	1077.6	1077.8	1077.4
147.5°	1118.0	1119.6	1120.6	1121.7	1122.7	1123.7	1124.3	1124.9	1125.4	1126.0	1125.8
150°	1148.0	1149.3	1150.4	1151.4	1152.4	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6
152.5°	1176.8	1178.2	1179.5	1180.7	1182.0	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1
155°	1217.0	1217.7	1218.5	1219.3	1220.1	1220.8	1222.1	1223.4	1224.7	1226.0	1226.2
157.5°	1252.9	1253.3	1253.8	1254.3	1254.7	1255.2	1257.0	1258.7	1260.5	1262.2	1262.5
160°	1275.2	1275.5	1275.8	1276.1	1276.3	1276.6	1278.1	1279.7	1281.2	1282.8	1283.0
162.5°	1294.0	1294.1	1294.4	1294.6	1294.9	1295.2	1296.9	1298.7	1300.4	1302.2	1302.4
165°	1319.7	1319.6	1319.6	1319.6	1319.6	1319.6	1321.4	1323.2	1325.0	1326.8	1327.0
167.5°	1340.4	1340.0	1339.9	1339.9	1339.8	1339.8	1341.6	1343.4	1345.2	1347.0	1347.2
170°	1352.5	1352.0	1351.7	1351.4	1351.2	1350.9	1352.7	1354.5	1356.3	1358.1	1358.3
172.5°	1360.8	1360.3	1360.1	1359.8	1359.5	1359.3	1361.1	1362.9	1364.7	1366.5	1366.6
175°	1371.1	1370.4	1369.9	1369.4	1368.9	1368.3	1370.2	1372.0	1373.8	1375.6	1375.7
177.5°	1375.9	1375.3	1374.9	1374.5	1374.1	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2117.8	2119.0	2117.2	2118.4	2117.2	2119.0	2117.8	2124.5	2125.7	2127.0	2125.7
5°	1973.2	1964.0	1962.5	1960.2	1962.5	1964.0	1973.2	1977.1	1980.1	1986.3	1997.0
7.5°	1800.7	1799.3	1795.5	1790.1	1795.5	1799.3	1800.7	1813.8	1824.3	1836.2	1858.1
10°	1689.7	1685.9	1685.1	1679.7	1685.1	1685.9	1689.7	1706.6	1718.8	1735.7	1765.6
12.5°	1559.7	1535.1	1532.5	1519.1	1532.5	1535.1	1559.7	1581.5	1614.6	1630.9	1662.6
15°	1328.0	1323.4	1308.1	1298.1	1308.1	1323.4	1328.0	1346.4	1358.7	1403.1	1454.5
17.5°	1195.6	1180.6	1175.8	1173.7	1175.8	1180.6	1195.6	1204.5	1222.0	1245.4	1276.4
20°	1110.4	1096.6	1094.3	1092.8	1094.3	1096.6	1110.4	1121.1	1134.9	1160.2	1192.4
22.5°	1051.5	1037.1	1031.1	1026.5	1031.1	1037.1	1051.5	1059.8	1072.4	1092.1	1113.9
25°	951.0	945.6	942.6	941.0	942.6	945.6	951.0	958.7	970.9	997.7	1020.7
27.5°	872.4	860.6	858.3	854.3	858.3	860.6	872.4	886.0	898.7	910.8	931.4
30°	827.6	823.8	818.4	813.8	818.4	823.8	827.6	834.5	842.9	863.6	883.6
32.5°	774.9	771.7	766.9	764.8	766.9	771.7	774.9	784.2	801.9	814.6	829.0
35°	716.5	705.8	701.2	694.3	701.2	705.8	716.5	724.2	731.1	741.8	767.8
37.5°	654.7	649.1	642.6	644.9	642.6	649.1	654.7	658.0	672.5	687.4	698.7
40°	606.9	603.1	601.6	600.8	601.6	603.1	606.9	616.9	634.5	641.4	658.3
42.5°	568.9	558.3	554.3	554.2	554.3	558.3	568.9	580.1	591.0	602.2	619.6
45°	511.1	501.2	494.3	495.0	494.3	501.2	511.1	515.0	524.2	546.4	556.3
47.5°	452.0	451.7	447.4	448.7	447.4	451.7	452.0	458.6	470.4	484.0	499.9
50°	423.8	419.2	416.1	416.9	416.1	419.2	423.8	429.1	436.0	442.9	467.4
52.5°	396.8	392.8	390.4	393.6	390.4	392.8	396.8	399.7	404.8	411.7	428.2
55°	352.5	347.9	347.1	346.4	347.1	347.9	352.5	356.3	362.5	367.8	375.5
57.5°	303.0	299.9	295.3	293.3	295.3	299.9	303.0	308.7	316.0	323.1	331.0
60°	267.4	261.3	253.6	252.9	253.6	261.3	267.4	277.4	280.5	291.2	300.4
62.5°	234.9	233.7	232.2	232.0	232.2	233.7	234.9	238.2	242.5	258.1	269.1
65°	206.1	205.4	206.1	206.9	206.1	205.4	206.1	207.7	208.4	210.0	214.6
67.5°	179.6	178.2	176.9	177.5	176.9	178.2	179.6	179.9	182.1	183.0	186.2
70°	159.4	158.6	157.9	157.9	157.9	158.6	159.4	160.9	162.5	164.0	167.8
72.5°	139.8	139.6	138.9	138.2	138.9	139.6	139.8	142.5	143.5	145.0	147.6
75°	111.9	110.3	110.3	110.3	110.3	110.3	111.9	112.6	113.4	115.7	117.2
77.5°	85.2	84.4	83.7	83.1	83.7	84.4	85.2	85.4	86.6	87.1	88.7
80°	67.4	66.7	65.9	65.9	65.9	66.7	67.4	68.2	68.2	70.5	69.7
82.5°	51.5	50.7	50.6	50.0	50.6	50.7	51.5	51.6	51.6	53.3	53.2
85°	27.6	28.4	27.6	29.1	27.6	28.4	27.6	26.8	27.6	29.1	29.1
87.5°	15.7	15.2	15.8	15.3	15.8	15.2	15.7	15.7	16.3	16.4	16.5
90°	38.7	39.0	39.2	39.5	39.2	39.0	38.7	38.5	38.6	39.1	39.6
92.5°	37.5	37.5	37.6	37.6	37.6	37.5	37.5	37.4	37.4	37.2	37.1
95°	73.6	73.1	72.5	72.0	72.5	73.1	73.6	74.1	74.3	74.3	74.3
97.5°	124.9	124.9	124.8	124.8	124.8	124.9	124.9	125.0	125.0	125.0	125.0
100°	159.9	159.7	159.4	159.1	159.4	159.7	159.9	160.2	160.3	160.3	160.3
102.5°	198.9	198.7	198.4	198.2	198.4	198.7	198.9	199.2	199.2	199.0	198.8
105°	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.9	257.6	257.1	256.6
107.5°	317.7	316.5	315.3	314.1	315.3	316.5	317.7	318.8	319.3	319.1	318.9
110°	360.1	359.3	358.5	357.8	358.5	359.3	360.1	360.9	361.3	361.3	361.3



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	401.3	400.7	400.2	399.6	400.2	400.7	401.3	401.9	402.5	403.1	403.7
115°	467.0	466.2	465.4	464.6	465.4	466.2	467.0	467.7	468.2	468.5	468.8
117.5°	529.0	528.2	527.4	526.7	527.4	528.2	529.0	529.8	530.5	531.1	531.7
120°	572.7	571.9	571.1	570.3	571.1	571.9	572.7	573.4	573.8	573.8	573.8
122.5°	614.8	614.2	613.7	613.1	613.7	614.2	614.8	615.4	615.9	616.6	617.2
125°	679.1	678.9	678.6	678.4	678.6	678.9	679.1	679.4	679.9	680.7	681.5
127.5°	740.3	739.5	738.7	737.8	738.7	739.5	740.3	741.1	742.0	742.9	743.9
130°	783.7	782.6	781.6	780.6	781.6	782.6	783.7	784.7	785.5	786.0	786.5
132.5°	824.0	823.1	822.3	821.5	822.3	823.1	824.0	824.8	825.8	826.9	828.0
135°	887.4	886.7	885.9	885.1	885.9	886.7	887.4	888.2	888.7	889.0	889.3
137.5°	945.8	944.8	943.8	942.7	943.8	944.8	945.8	946.9	947.5	947.7	947.9
140°	985.8	984.8	983.7	982.7	983.7	984.8	985.8	986.8	987.3	987.3	987.3
142.5°	1022.0	1021.0	1020.0	1018.9	1020.0	1021.0	1022.0	1023.1	1023.5	1023.3	1023.1
145°	1076.4	1075.4	1074.3	1073.3	1074.3	1075.4	1076.4	1077.4	1077.8	1077.6	1077.3
147.5°	1124.8	1123.8	1122.8	1121.9	1122.8	1123.8	1124.8	1125.8	1126.0	1125.4	1124.9
150°	1155.8	1155.0	1154.2	1153.5	1154.2	1155.0	1155.8	1156.6	1156.6	1155.8	1155.0
152.5°	1186.1	1185.2	1184.2	1183.2	1184.2	1185.2	1186.1	1187.1	1187.1	1186.1	1185.2
155°	1225.5	1224.7	1223.9	1223.1	1223.9	1224.7	1225.5	1226.2	1226.0	1224.7	1223.4
157.5°	1261.2	1260.0	1258.8	1257.5	1258.8	1260.0	1261.2	1262.5	1262.2	1260.5	1258.7
160°	1282.0	1281.0	1279.9	1278.9	1279.9	1281.0	1282.0	1283.0	1282.8	1281.2	1279.7
162.5°	1301.2	1300.0	1298.7	1297.5	1298.7	1300.0	1301.2	1302.4	1302.2	1300.4	1298.7
165°	1325.8	1324.5	1323.2	1321.9	1323.2	1324.5	1325.8	1327.0	1326.8	1325.0	1323.2
167.5°	1345.9	1344.5	1343.2	1341.9	1343.2	1344.5	1345.9	1347.2	1347.0	1345.2	1343.4
170°	1356.7	1355.2	1353.6	1352.1	1353.6	1355.2	1356.7	1358.3	1358.1	1356.3	1354.5
172.5°	1365.1	1363.5	1362.0	1360.4	1362.0	1363.5	1365.1	1366.6	1366.5	1364.7	1362.9
175°	1374.2	1372.6	1371.1	1369.5	1371.1	1372.6	1374.2	1375.7	1375.6	1373.8	1372.0
177.5°	1377.4	1376.2	1374.9	1373.7	1374.9	1376.2	1377.4	1378.6	1378.6	1377.4	1376.2
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2120.8	2129.4	2142.3	2149.6	2161.9	2169.9	2174.2	2182.1	2186.4	2201.8	2217.7
5°	2002.4	2014.6	2036.1	2056.0	2077.5	2099.7	2115.8	2134.2	2151.0	2180.1	2210.8
7.5°	1866.6	1883.6	1916.8	1948.6	1986.0	2017.4	2045.1	2076.5	2104.6	2146.3	2189.8
10°	1764.8	1794.7	1838.4	1868.3	1917.3	1948.7	1992.4	2026.9	2066.0	2121.1	2170.2
12.5°	1677.1	1713.2	1748.3	1789.8	1833.9	1886.2	1934.2	1978.5	2024.9	2081.9	2139.5
15°	1518.1	1570.2	1624.6	1666.7	1726.5	1781.7	1837.6	1897.4	1954.1	2022.3	2097.4
17.5°	1313.3	1373.7	1465.2	1537.4	1607.6	1662.9	1732.2	1804.5	1871.3	1953.6	2037.2
20°	1220.7	1265.2	1327.2	1424.6	1530.3	1589.3	1659.8	1739.5	1816.1	1905.8	1995.5
22.5°	1146.5	1186.1	1235.9	1311.8	1429.8	1510.2	1583.8	1664.7	1753.6	1845.1	1944.6
25°	1040.6	1068.2	1120.3	1181.6	1262.9	1395.4	1475.9	1557.1	1653.7	1751.8	1865.2
27.5°	961.1	985.9	1019.8	1078.3	1138.7	1233.9	1361.9	1450.5	1546.7	1657.1	1774.8
30°	900.4	929.5	967.1	1008.5	1074.4	1148.7	1276.7	1379.4	1474.4	1587.8	1713.5
32.5°	856.3	879.3	911.3	953.3	1008.2	1079.4	1181.6	1306.4	1399.0	1518.5	1649.7
35°	783.9	810.8	836.8	876.7	921.1	986.2	1063.6	1197.0	1288.9	1406.9	1538.7
37.5°	724.3	740.7	769.5	801.1	848.0	896.6	963.7	1083.3	1182.7	1298.6	1433.5
40°	678.9	699.6	721.1	756.3	794.7	841.4	907.3	996.2	1110.4	1223.8	1355.6
42.5°	634.8	661.0	683.7	707.3	749.3	796.0	849.7	925.1	1041.7	1149.0	1277.1
45°	581.6	598.5	622.2	648.3	682.8	722.6	770.1	836.0	947.9	1040.6	1161.0
47.5°	519.7	544.4	559.9	585.3	618.1	656.1	700.3	757.3	847.8	934.7	1046.3
50°	477.4	502.7	524.9	547.9	577.0	613.8	650.6	705.8	778.6	869.8	974.0
52.5°	441.2	463.5	485.1	508.1	536.6	570.3	605.2	653.7	716.0	799.9	901.0
55°	391.6	405.4	427.6	450.6	475.9	508.1	541.8	582.4	636.0	706.5	788.5
57.5°	340.7	356.6	374.3	397.4	423.0	447.7	478.0	514.8	557.1	620.9	691.1
60°	311.9	324.1	338.7	362.5	386.2	408.4	437.6	468.2	508.1	563.2	623.0
62.5°	280.0	291.7	305.0	325.7	348.8	369.2	394.6	427.1	460.9	511.1	563.5
65°	226.8	243.7	256.7	275.1	294.3	315.7	335.6	361.7	391.6	431.4	478.2
67.5°	188.1	196.6	208.7	225.4	245.1	263.5	282.3	302.7	328.6	359.4	396.5
70°	170.9	174.0	176.3	192.3	210.7	229.1	246.8	265.9	288.1	313.4	345.6
72.5°	150.7	153.7	156.6	163.5	178.2	196.6	214.9	229.1	250.1	271.1	297.2
75°	119.5	124.1	126.4	130.3	135.6	147.9	164.8	178.5	190.8	206.9	227.6
77.5°	91.0	93.6	96.1	100.1	103.5	109.1	118.6	131.0	142.5	151.9	166.1
80°	72.0	72.8	75.9	77.4	82.0	85.8	90.4	100.4	111.9	115.7	125.7
82.5°	54.3	55.0	57.5	59.0	61.2	64.4	70.2	72.8	81.8	86.9	93.2
85°	29.9	29.1	31.4	31.4	33.0	34.5	36.0	39.8	42.1	48.3	49.8
87.5°	17.2	17.3	16.8	15.7	14.5	14.6	14.4	14.4	15.0	16.2	18.0
90°	40.1	40.7	35.0	29.3	23.6	17.9	13.6	10.5	7.4	4.3	1.2
92.5°	37.0	36.9	35.6	34.3	32.9	31.6	29.8	27.5	25.2	22.9	20.7
95°	74.3	74.3	73.8	73.3	72.8	72.3	70.7	68.1	65.6	63.0	60.4
97.5°	125.0	125.0	124.0	123.0	122.0	121.1	119.4	117.2	114.9	112.6	110.4
100°	160.3	160.3	159.5	158.7	158.0	157.2	155.8	153.7	151.7	149.6	147.5
102.5°	198.6	198.4	197.4	196.4	195.5	194.5	193.2	191.5	189.9	188.2	186.6
105°	256.1	255.5	255.0	254.5	254.0	253.5	252.8	252.1	251.3	250.5	249.7
107.5°	318.7	318.5	318.5	318.5	318.5	318.5	317.9	316.8	315.7	314.5	313.4
110°	361.3	361.3	361.3	361.3	361.3	361.3	360.5	358.9	357.4	355.8	354.3



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	404.3	404.9	405.1	405.3	405.5	405.8	405.1	403.5	402.0	400.4	398.9
115°	469.0	469.3	469.8	470.3	470.8	471.3	470.8	469.3	467.7	466.2	464.6
117.5°	532.3	532.9	534.4	535.8	537.3	538.7	538.4	536.3	534.3	532.2	530.1
120°	573.8	573.8	575.9	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8
122.5°	617.8	618.4	619.9	621.3	622.8	624.2	623.7	621.2	618.7	616.3	613.8
125°	682.2	683.0	683.8	684.6	685.3	686.1	685.3	683.0	680.7	678.4	676.0
127.5°	744.8	745.7	746.7	747.6	748.5	749.5	748.4	745.5	742.6	739.6	736.7
130°	787.0	787.6	788.1	788.6	789.1	789.6	788.2	784.8	781.5	778.1	774.8
132.5°	829.2	830.3	830.2	830.1	830.0	829.9	828.5	825.7	823.0	820.3	817.5
135°	889.5	889.8	889.3	888.7	888.2	887.7	886.0	883.2	880.4	877.5	874.7
137.5°	948.1	948.3	947.6	947.0	946.3	945.6	944.1	941.8	939.5	937.2	934.8
140°	987.3	987.3	986.1	984.8	983.5	982.2	980.4	978.1	975.7	973.4	971.1
142.5°	1022.9	1022.7	1021.8	1020.9	1020.0	1019.1	1017.5	1015.2	1012.9	1010.6	1008.3
145°	1077.0	1076.8	1075.2	1073.7	1072.1	1070.6	1068.9	1067.1	1065.3	1063.5	1061.7
147.5°	1124.3	1123.7	1122.7	1121.7	1120.6	1119.6	1118.0	1115.8	1113.6	1111.5	1109.3
150°	1154.2	1153.5	1152.4	1151.4	1150.4	1149.3	1148.0	1146.5	1144.9	1143.4	1141.8
152.5°	1184.2	1183.2	1182.0	1180.7	1179.5	1178.2	1176.8	1175.3	1173.7	1172.2	1170.6
155°	1222.1	1220.8	1220.1	1219.3	1218.5	1217.7	1217.0	1216.2	1215.4	1214.6	1213.9
157.5°	1257.0	1255.2	1254.7	1254.3	1253.8	1253.3	1252.9	1252.3	1251.8	1251.3	1250.8
160°	1278.1	1276.6	1276.3	1276.1	1275.8	1275.5	1275.2	1274.6	1274.1	1273.6	1273.1
162.5°	1296.9	1295.2	1294.9	1294.6	1294.4	1294.1	1294.0	1293.8	1293.7	1293.6	1293.5
165°	1321.4	1319.6	1319.6	1319.6	1319.6	1319.6	1319.7	1319.9	1320.2	1320.5	1320.7
167.5°	1341.6	1339.8	1339.8	1339.9	1339.9	1340.0	1340.4	1341.2	1341.9	1342.7	1343.5
170°	1352.7	1350.9	1351.2	1351.4	1351.7	1352.0	1352.5	1353.2	1354.0	1354.8	1355.6
172.5°	1361.1	1359.3	1359.5	1359.8	1360.1	1360.3	1360.8	1361.6	1362.4	1363.2	1363.9
175°	1370.2	1368.3	1368.9	1369.4	1369.9	1370.4	1371.1	1371.8	1372.6	1373.4	1374.2
177.5°	1374.9	1373.7	1374.1	1374.5	1374.9	1375.3	1375.9	1376.5	1377.1	1377.7	1378.3
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2218.3	2220.1	2232.4	2237.9	2249.0	2253.2	2258.2	2256.9	2256.9	2259.4	2276.5
5°	2223.1	2238.4	2261.4	2283.6	2305.1	2323.4	2335.7	2348.0	2352.6	2374.8	2394.7
7.5°	2215.1	2243.3	2281.3	2315.2	2355.8	2387.5	2413.9	2437.6	2453.9	2486.2	2519.3
10°	2204.7	2244.5	2287.4	2331.1	2387.0	2429.2	2472.1	2505.1	2515.8	2564.1	2591.7
12.5°	2183.8	2237.2	2291.7	2348.3	2403.0	2461.1	2508.3	2541.2	2578.9	2622.3	2673.2
15°	2152.6	2213.9	2285.1	2357.9	2436.1	2506.6	2557.2	2614.6	2656.0	2703.5	2748.0
17.5°	2107.7	2186.6	2277.2	2361.5	2451.9	2527.6	2597.2	2652.3	2681.5	2708.6	2715.2
20°	2072.1	2157.2	2263.7	2363.3	2453.7	2541.1	2610.0	2656.0	2663.7	2664.4	2623.8
22.5°	2033.5	2129.6	2241.0	2343.1	2451.3	2548.4	2602.1	2621.7	2591.3	2539.4	2460.8
25°	1962.5	2073.6	2203.1	2319.6	2437.6	2529.6	2548.0	2513.5	2407.0	2295.1	2153.3
27.5°	1885.6	2010.5	2149.3	2278.8	2404.5	2461.5	2421.8	2297.5	2105.7	1938.9	1736.8
30°	1829.2	1969.4	2105.8	2250.6	2367.1	2391.6	2300.5	2117.3	1893.5	1642.2	1440.7
32.5°	1764.8	1911.8	2061.7	2211.4	2308.9	2285.0	2134.3	1908.9	1646.5	1399.4	1208.9
35°	1672.8	1824.6	1986.3	2136.5	2198.5	2095.1	1869.8	1576.3	1308.1	1077.4	946.4
37.5°	1566.6	1731.9	1900.0	2037.9	2033.5	1861.1	1554.2	1251.2	1025.8	889.4	796.0
40°	1491.2	1658.3	1839.9	1956.4	1906.6	1682.0	1349.5	1063.6	898.9	790.1	721.9
42.5°	1418.9	1586.6	1767.0	1859.5	1772.9	1496.9	1165.6	941.6	805.7	720.8	665.5
45°	1295.8	1472.8	1639.9	1691.2	1536.4	1232.2	942.6	780.1	689.7	626.8	588.5
47.5°	1175.5	1349.6	1502.1	1503.0	1293.7	999.3	795.1	675.1	597.9	549.3	521.4
50°	1101.9	1267.5	1395.4	1375.5	1138.0	888.9	711.1	607.7	543.3	505.8	476.6
52.5°	1019.2	1179.8	1290.6	1233.9	1006.2	782.2	635.7	548.8	495.5	462.8	436.8
55°	898.9	1041.4	1119.6	1033.7	820.7	650.6	537.2	469.0	429.1	401.5	379.3
57.5°	780.7	898.3	947.5	847.5	676.0	539.5	454.4	403.2	363.7	343.9	332.4
60°	706.5	806.9	841.4	731.1	587.8	472.0	402.3	354.8	325.7	312.7	301.2
62.5°	633.6	715.6	729.8	628.7	512.4	413.2	353.3	313.1	293.8	281.4	270.5
65°	525.7	584.7	577.8	496.6	405.4	328.0	284.3	259.8	245.2	227.6	208.4
67.5°	432.8	468.8	447.1	386.2	309.4	254.9	226.4	207.8	189.7	173.0	168.6
70°	374.0	394.6	371.7	315.7	253.6	213.8	190.8	168.6	157.9	154.0	147.1
72.5°	317.6	324.8	299.9	252.0	206.4	177.0	154.6	142.2	136.4	133.2	128.7
75°	238.3	233.0	211.5	174.0	143.3	123.4	116.5	111.9	108.0	105.0	102.7
77.5°	167.4	159.5	140.4	115.9	99.8	90.3	86.1	83.7	81.8	80.3	78.0
80°	125.7	120.3	101.2	82.8	75.9	71.3	69.0	65.9	65.9	64.4	62.1
82.5°	92.0	86.0	69.3	60.7	56.9	54.1	52.4	50.6	50.0	50.3	48.6
85°	48.3	39.1	34.5	33.0	30.7	29.1	29.9	28.4	28.4	28.4	27.6
87.5°	15.6	13.1	13.1	13.1	14.6	15.8	16.3	17.4	19.2	18.4	19.0
90°	4.3	7.4	10.5	13.6	17.9	23.6	29.3	35.0	40.7	40.1	39.6
92.5°	22.9	25.2	27.5	29.8	31.6	32.9	34.3	35.6	36.9	37.0	37.1
95°	63.0	65.6	68.1	70.7	72.3	72.8	73.3	73.8	74.3	74.3	74.3
97.5°	112.6	114.9	117.2	119.4	121.1	122.0	123.0	124.0	125.0	125.0	125.0
100°	149.6	151.7	153.7	155.8	157.2	158.0	158.7	159.5	160.3	160.3	160.3
102.5°	188.2	189.9	191.5	193.2	194.5	195.5	196.4	197.4	198.4	198.6	198.8
105°	250.5	251.3	252.1	252.8	253.5	254.0	254.5	255.0	255.5	256.1	256.6
107.5°	314.5	315.7	316.8	317.9	318.5	318.5	318.5	318.5	318.5	318.7	318.9
110°	355.8	357.4	358.9	360.5	361.3	361.3	361.3	361.3	361.3	361.3	361.3



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	400.4	402.0	403.5	405.1	405.8	405.5	405.3	405.1	404.9	404.3	403.7
115°	466.2	467.7	469.3	470.8	471.3	470.8	470.3	469.8	469.3	469.0	468.8
117.5°	532.2	534.3	536.3	538.4	538.7	537.3	535.8	534.4	532.9	532.3	531.7
120°	575.9	578.0	580.0	582.1	582.1	580.0	578.0	575.9	573.8	573.8	573.8
122.5°	616.3	618.7	621.2	623.7	624.2	622.8	621.3	619.9	618.4	617.8	617.2
125°	678.4	680.7	683.0	685.3	686.1	685.3	684.6	683.8	683.0	682.2	681.5
127.5°	739.6	742.6	745.5	748.4	749.5	748.5	747.6	746.7	745.7	744.8	743.9
130°	778.1	781.5	784.8	788.2	789.6	789.1	788.6	788.1	787.6	787.0	786.5
132.5°	820.3	823.0	825.7	828.5	829.9	830.0	830.1	830.2	830.3	829.2	828.0
135°	877.5	880.4	883.2	886.0	887.7	888.2	888.7	889.3	889.8	889.5	889.3
137.5°	937.2	939.5	941.8	944.1	945.6	946.3	947.0	947.6	948.3	948.1	947.9
140°	973.4	975.7	978.1	980.4	982.2	983.5	984.8	986.1	987.3	987.3	987.3
142.5°	1010.6	1012.9	1015.2	1017.5	1019.1	1020.0	1020.9	1021.8	1022.7	1022.9	1023.1
145°	1063.5	1065.3	1067.1	1068.9	1070.6	1072.1	1073.7	1075.2	1076.8	1077.0	1077.3
147.5°	1111.5	1113.6	1115.8	1118.0	1119.6	1120.6	1121.7	1122.7	1123.7	1124.3	1124.9
150°	1143.4	1144.9	1146.5	1148.0	1149.3	1150.4	1151.4	1152.4	1153.5	1154.2	1155.0
152.5°	1172.2	1173.7	1175.3	1176.8	1178.2	1179.5	1180.7	1182.0	1183.2	1184.2	1185.2
155°	1214.6	1215.4	1216.2	1217.0	1217.7	1218.5	1219.3	1220.1	1220.8	1222.1	1223.4
157.5°	1251.3	1251.8	1252.3	1252.9	1253.3	1253.8	1254.3	1254.7	1255.2	1257.0	1258.7
160°	1273.6	1274.1	1274.6	1275.2	1275.5	1275.8	1276.1	1276.3	1276.6	1278.1	1279.7
162.5°	1293.6	1293.7	1293.8	1294.0	1294.1	1294.4	1294.6	1294.9	1295.2	1296.9	1298.7
165°	1320.5	1320.2	1319.9	1319.7	1319.6	1319.6	1319.6	1319.6	1319.6	1321.4	1323.2
167.5°	1342.7	1341.9	1341.2	1340.4	1340.0	1339.9	1339.9	1339.8	1339.8	1341.6	1343.4
170°	1354.8	1354.0	1353.2	1352.5	1352.0	1351.7	1351.4	1351.2	1350.9	1352.7	1354.5
172.5°	1363.2	1362.4	1361.6	1360.8	1360.3	1360.1	1359.8	1359.5	1359.3	1361.1	1362.9
175°	1373.4	1372.6	1371.8	1371.1	1370.4	1369.9	1369.4	1368.9	1368.3	1370.2	1372.0
177.5°	1377.7	1377.1	1376.5	1375.9	1375.3	1374.9	1374.5	1374.1	1373.7	1374.9	1376.2
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4	2205.4
2.5°	2282.7	2290.6	2294.3	2294.3	2298.6	2296.8	2294.9
5°	2413.9	2428.4	2431.5	2445.3	2455.2	2452.2	2453.7
7.5°	2544.3	2567.7	2590.9	2601.5	2603.1	2609.3	2611.6
10°	2624.6	2643.8	2679.8	2674.4	2701.2	2716.6	2691.3
12.5°	2701.8	2727.7	2752.7	2759.6	2774.8	2779.7	2769.7
15°	2771.7	2785.5	2787.1	2783.2	2787.8	2784.0	2769.4
17.5°	2706.4	2684.1	2638.7	2617.2	2600.2	2575.1	2565.0
20°	2598.5	2532.6	2456.0	2425.4	2389.3	2318.8	2335.7
22.5°	2365.6	2290.5	2213.9	2124.4	2081.6	2014.8	2010.8
25°	2003.1	1873.6	1731.1	1631.5	1573.2	1506.6	1477.4
27.5°	1557.4	1394.4	1277.6	1218.4	1164.6	1111.8	1109.6
30°	1264.4	1141.8	1051.4	1000.8	967.8	945.6	950.2
32.5°	1065.8	981.8	920.8	878.8	854.4	837.7	837.4
35°	871.3	813.8	774.7	757.1	739.5	727.2	728.0
37.5°	745.6	711.1	689.4	669.9	658.9	652.9	649.5
40°	681.2	652.9	636.0	624.5	615.3	606.9	605.4
42.5°	630.4	606.9	590.1	581.0	572.4	566.5	564.9
45°	559.4	540.2	524.9	515.0	511.1	505.8	505.8
47.5°	497.6	478.8	466.8	460.6	454.0	450.4	450.3
50°	456.0	441.4	430.7	426.8	421.5	419.2	418.4
52.5°	418.6	407.7	400.0	397.4	395.1	392.2	392.7
55°	367.8	361.7	358.6	356.3	352.5	347.9	351.0
57.5°	325.1	319.9	311.6	304.4	300.9	297.6	298.9
60°	295.0	284.3	273.6	265.1	262.8	255.9	255.9
62.5°	257.0	242.0	228.8	224.1	221.8	218.6	217.9
65°	197.7	191.6	188.5	185.4	183.9	183.9	182.4
67.5°	163.8	161.4	158.0	157.2	155.7	155.3	154.8
70°	144.8	141.8	140.2	139.5	137.9	138.7	136.4
72.5°	126.4	124.0	123.7	121.7	120.8	120.9	119.2
75°	99.6	99.6	98.9	98.1	96.6	95.8	96.6
77.5°	76.6	76.8	75.4	75.3	75.1	75.3	74.5
80°	61.3	62.1	61.3	60.5	59.8	60.5	59.8
82.5°	48.4	47.4	47.2	47.1	46.9	46.4	46.3
85°	27.6	28.4	27.6	26.8	26.8	26.8	27.6
87.5°	18.2	18.1	18.1	18.2	18.2	18.3	17.7
90°	39.1	38.6	38.5	38.7	39.0	39.2	39.5
92.5°	37.2	37.4	37.4	37.5	37.5	37.6	37.6
95°	74.3	74.3	74.1	73.6	73.1	72.5	72.0
97.5°	125.0	125.0	125.0	124.9	124.9	124.8	124.8
100°	160.3	160.3	160.2	159.9	159.7	159.4	159.1
102.5°	199.0	199.2	199.2	198.9	198.7	198.4	198.2
105°	257.1	257.6	257.9	257.9	257.9	257.9	257.9
107.5°	319.1	319.3	318.8	317.7	316.5	315.3	314.1
110°	361.3	361.3	360.9	360.1	359.3	358.5	357.8



TEST NUMBER: P331760

CATALOG NUMBER: S122RDIP-S1005D1080U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	403.1	402.5	401.9	401.3	400.7	400.2	399.6
115°	468.5	468.2	467.7	467.0	466.2	465.4	464.6
117.5°	531.1	530.5	529.8	529.0	528.2	527.4	526.7
120°	573.8	573.8	573.4	572.7	571.9	571.1	570.3
122.5°	616.6	615.9	615.4	614.8	614.2	613.7	613.1
125°	680.7	679.9	679.4	679.1	678.9	678.6	678.4
127.5°	742.9	742.0	741.1	740.3	739.5	738.7	737.8
130°	786.0	785.5	784.7	783.7	782.6	781.6	780.6
132.5°	826.9	825.8	824.8	824.0	823.1	822.3	821.5
135°	889.0	888.7	888.2	887.4	886.7	885.9	885.1
137.5°	947.7	947.5	946.9	945.8	944.8	943.8	942.7
140°	987.3	987.3	986.8	985.8	984.8	983.7	982.7
142.5°	1023.3	1023.5	1023.1	1022.0	1021.0	1020.0	1018.9
145°	1077.6	1077.8	1077.4	1076.4	1075.4	1074.3	1073.3
147.5°	1125.4	1126.0	1125.8	1124.8	1123.8	1122.8	1121.9
150°	1155.8	1156.6	1156.6	1155.8	1155.0	1154.2	1153.5
152.5°	1186.1	1187.1	1187.1	1186.1	1185.2	1184.2	1183.2
155°	1224.7	1226.0	1226.2	1225.5	1224.7	1223.9	1223.1
157.5°	1260.5	1262.2	1262.5	1261.2	1260.0	1258.8	1257.5
160°	1281.2	1282.8	1283.0	1282.0	1281.0	1279.9	1278.9
162.5°	1300.4	1302.2	1302.4	1301.2	1300.0	1298.7	1297.5
165°	1325.0	1326.8	1327.0	1325.8	1324.5	1323.2	1321.9
167.5°	1345.2	1347.0	1347.2	1345.9	1344.5	1343.2	1341.9
170°	1356.3	1358.1	1358.3	1356.7	1355.2	1353.6	1352.1
172.5°	1364.7	1366.5	1366.6	1365.1	1363.5	1362.0	1360.4
175°	1373.8	1375.6	1375.7	1374.2	1372.6	1371.1	1369.5
177.5°	1377.4	1378.6	1378.6	1377.4	1376.2	1374.9	1373.7
180°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5

(END OF REPORT)