

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1010790

Luminaire Tested: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010790
REPORT IS A COMBINATION OF REPORTS P992806 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

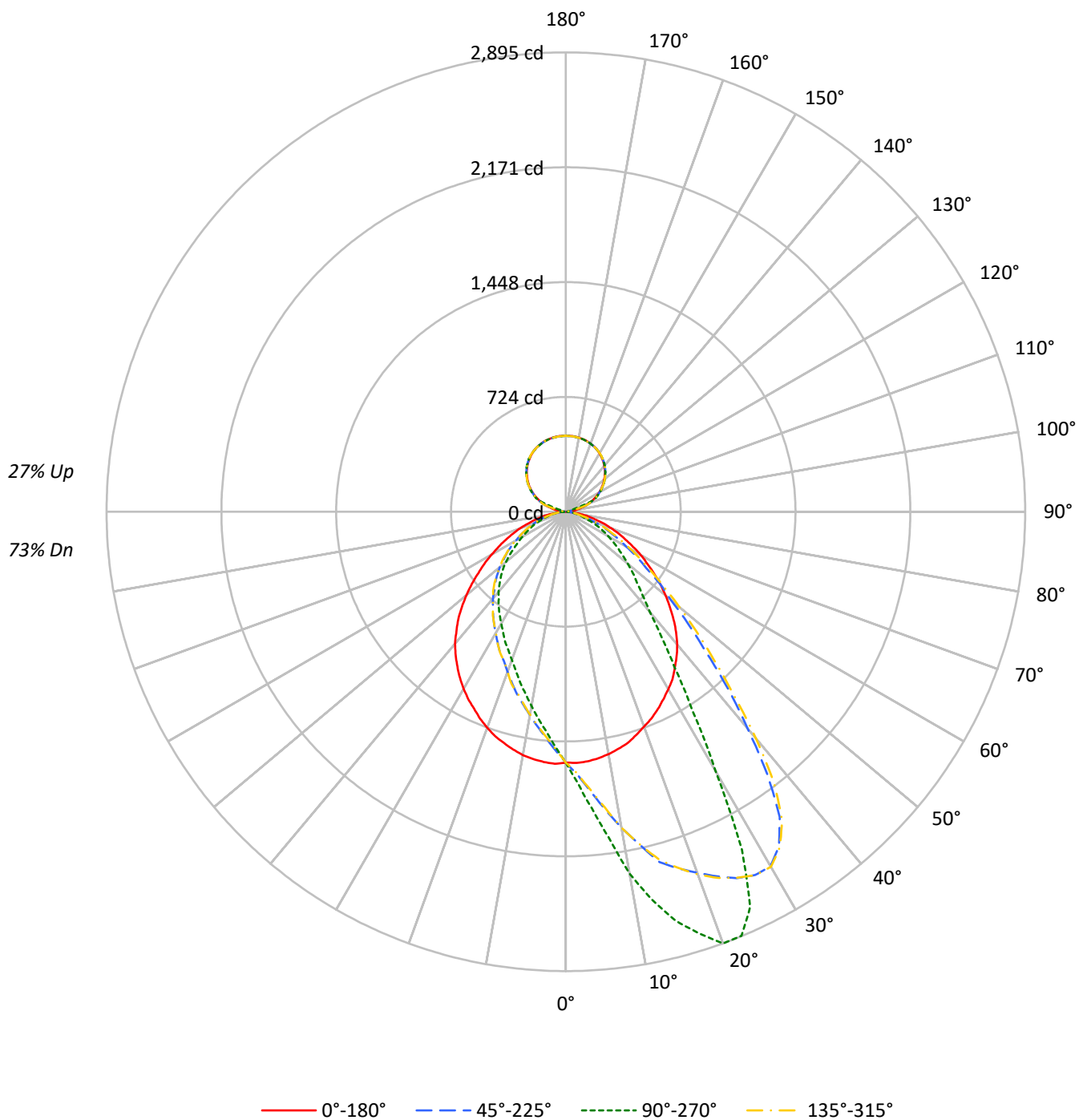
Lumens per Lamp: N/A
Luminaire Lumens: 5395.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	77	77	77
1	104	100	96	93	98	95	92	89	86	83	81	77	75	74	70	68	67	67	67	67
2	95	88	82	77	90	84	79	74	76	72	68	69	66	63	62	60	58	58	58	58
3	87	78	71	65	83	75	68	63	68	63	59	62	58	54	56	53	50	50	50	50
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44	44	44	44
5	74	63	55	49	70	60	53	47	55	49	44	50	45	42	46	42	39	39	39	39
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35	35	35	35
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	34	31	31	31	31
8	60	47	39	34	57	45	38	33	42	36	31	39	34	30	36	31	28	28	28	28
9	56	43	36	31	53	42	35	30	39	33	28	36	31	27	33	29	25	25	25	25
10	52	40	33	28	50	39	32	27	36	30	26	33	28	25	31	26	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17010	17010	17010	17010
5°	17023	19591	17067	14534
10°	16873	23649	16947	12695
15°	16699	26840	16699	11194
20°	16356	28951	16448	9930
25°	16106	27505	16074	9060
30°	15814	19058	15781	8210
35°	15464	12236	15394	7570
40°	15027	8640	14952	6932
45°	14266	6914	14247	6311
50°	13333	5784	13289	5585
55°	12281	4767	12183	4734
60°	11252	3940	11138	4026
65°	10042	3153	10107	3412
70°	8926	2191	9164	2759
75°	7566	1625	7874	2122
80°	6021	1077	6536	1591
85°	4284	510	4678	989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 22709 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	2.9
10°-20°	485.8	9.0
20°-30°	765.1	14.2
30°-40°	795.6	14.7
40°-50°	680.7	12.6
50°-60°	518.9	9.6
60°-70°	332.5	6.2
70°-80°	159.3	3.0
80°-90°	42.8	0.8
90°-100°	16.9	0.3
100°-110°	81.6	1.5
110°-120°	200.0	3.7
120°-130°	253.8	4.7
130°-140°	271.2	5.0
140°-150°	253.6	4.7
150°-160°	204.5	3.8
160°-170°	132.0	2.4
170°-180°	45.5	0.8
0°-30°	1406.1	26.1
0°-40°	2201.7	40.8
0°-60°	3401.4	63.0
0°-90°	3936.0	73.0
90°-120°	298.5	5.5
90°-150°	1077.0	20.0
90°-180°	1459.0	27.0
0°-180°	5395.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1580	1580	1580	1580	1580	
5°	1579	1877	1583	1392	1579	150
15°	1509	2667	1509	1112	1509	424
25°	1372	2748	1369	905	1372	632
35°	1197	1192	1192	737	1197	749
45°	961	636	959	580	961	740
55°	678	399	672	396	678	607
65°	415	230	418	249	415	415
75°	199	97	207	127	199	215
85°	45	23	49	45	45	50
90°	0	11	0	11	0	4
95°	22	14	22	14	22	26
105°	106	16	106	16	106	112
115°	199	209	199	209	199	196
125°	280	286	280	286	280	250
135°	349	352	349	352	349	269
145°	402	406	402	406	402	252
155°	443	443	443	443	443	204
165°	468	466	468	466	468	132
175°	479	477	479	477	479	46
180°	479	479	479	479	479	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1584.3	1595.2	1603.3	1608.7	1622.2	1630.3	1637.1	1649.3	1649.3	1652.0	1657.4
5°	1578.9	1601.9	1618.2	1639.8	1668.2	1681.8	1700.7	1716.9	1739.9	1752.1	1764.3
7.5°	1566.8	1599.2	1633.1	1665.5	1707.5	1734.5	1753.5	1795.4	1825.2	1861.7	1890.1
10°	1550.5	1595.2	1638.5	1688.5	1745.4	1785.9	1814.4	1869.8	1926.7	1978.1	2021.4
12.5°	1530.2	1584.3	1646.6	1707.5	1787.3	1827.9	1873.9	1942.9	2024.1	2089.0	2147.2
15°	1508.6	1570.8	1641.2	1715.6	1815.7	1872.5	1938.8	2022.7	2113.4	2206.7	2286.5
17.5°	1474.8	1553.2	1631.7	1739.9	1857.6	1891.5	1948.3	2063.3	2175.6	2259.5	2356.9
20°	1440.9	1528.9	1627.6	1725.1	1852.2	1930.7	1983.5	2105.2	2225.7	2327.1	2420.5
22.5°	1409.8	1501.8	1604.6	1727.8	1846.8	1925.3	1991.6	2118.8	2258.1	2371.8	2486.8
25°	1371.9	1472.0	1585.7	1702.1	1846.8	1906.4	1979.4	2126.9	2274.4	2405.6	2547.7
27.5°	1331.3	1432.8	1545.1	1664.2	1796.8	1884.7	1956.4	2114.7	2294.7	2435.4	2581.5
30°	1290.7	1394.9	1503.2	1610.1	1758.9	1842.8	1925.3	2099.8	2305.5	2466.5	2578.8
32.5°	1251.5	1339.5	1446.3	1550.5	1698.0	1790.0	1883.4	2084.9	2309.5	2444.8	2499.0
35°	1197.4	1289.4	1376.0	1486.9	1635.8	1726.4	1836.0	2083.6	2292.0	2375.8	2348.8
37.5°	1147.3	1224.5	1307.0	1405.8	1558.6	1676.3	1790.0	2048.4	2233.8	2239.2	2086.3
40°	1091.9	1155.4	1224.5	1328.6	1493.7	1610.1	1733.2	1994.3	2128.2	2048.4	1779.2
42.5°	1028.3	1085.1	1139.2	1240.7	1420.6	1550.5	1683.1	1926.7	1975.4	1791.4	1511.3
45°	960.6	1006.6	1056.7	1163.6	1343.5	1472.0	1604.6	1822.5	1772.4	1512.6	1246.1
47.5°	890.3	929.5	978.2	1075.6	1261.0	1392.2	1518.0	1673.6	1546.5	1267.7	1044.5
50°	819.9	851.0	898.4	998.5	1177.1	1296.2	1412.5	1514.0	1335.4	1087.8	863.2
52.5°	750.9	775.3	824.0	909.2	1082.4	1196.0	1279.9	1319.2	1137.9	898.4	749.6
55°	677.8	704.9	737.4	824.0	995.8	1079.7	1135.2	1133.8	947.1	761.7	619.7
57.5°	607.5	631.8	660.3	746.8	886.2	943.0	990.4	967.4	790.1	623.7	531.7
60°	545.3	558.8	589.9	663.0	768.5	817.2	844.3	805.0	645.4	526.3	439.7
62.5°	477.6	491.1	516.8	585.8	650.8	676.5	699.5	649.4	533.1	428.9	376.1
65°	415.4	433.0	449.2	504.7	539.8	571.0	568.3	526.3	416.7	349.1	305.8
67.5°	361.2	368.0	381.5	415.4	431.6	454.6	456.0	408.6	335.5	284.1	258.4
70°	303.1	309.8	319.3	335.5	346.4	351.8	349.1	307.1	253.0	221.9	198.9
72.5°	253.0	251.7	258.4	258.4	269.2	267.9	259.8	227.3	192.1	166.4	152.9
75°	198.9	200.2	201.6	198.9	194.8	189.4	182.7	158.3	135.3	123.1	110.9
77.5°	155.6	152.9	154.2	144.8	139.4	133.9	124.5	112.3	93.4	90.6	85.2
80°	110.9	109.6	108.2	104.2	92.0	86.6	79.8	73.1	69.0	66.3	64.9
82.5°	74.4	74.4	71.7	63.6	56.8	52.8	51.4	48.7	44.6	44.6	43.3
85°	44.6	43.3	40.6	32.5	28.4	28.4	28.4	28.4	25.7	25.7	24.4
87.5°	17.6	16.2	12.2	12.2	10.8	10.8	10.8	9.5	9.5	8.1	8.1
90°	0.4	1.2	2.0	2.7	3.5	3.9	4.4	5.4	6.5	7.5	8.5
92.5°	8.2	7.7	7.2	6.7	6.2	6.0	6.4	7.1	7.8	8.5	9.2
95°	21.7	18.5	15.2	12.0	8.7	7.1	7.5	8.4	9.3	10.1	11.0
97.5°	39.5	37.3	35.1	32.8	30.6	29.5	27.5	23.5	19.4	15.4	11.4
100°	60.1	61.7	63.3	64.8	66.4	67.2	61.0	48.7	36.4	24.0	11.7
102.5°	83.6	84.6	85.6	86.7	87.7	88.2	81.3	67.6	53.8	40.1	26.3
105°	106.0	106.9	107.7	108.6	109.5	109.9	106.3	99.2	92.1	85.0	77.9
107.5°	129.8	130.5	131.2	131.9	132.6	133.0	133.6	134.8	135.9	137.1	138.3
110°	153.6	154.2	154.9	155.5	156.2	156.5	156.9	157.8	158.7	159.5	160.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	176.4	177.0	177.5	178.1	178.6	178.9	179.3	180.2	181.1	181.9	182.8
115°	198.8	199.3	199.7	200.2	200.7	200.9	201.3	202.0	202.7	203.4	204.1
117.5°	220.8	221.4	221.9	222.5	223.0	223.3	223.5	223.9	224.3	224.7	225.1
120°	241.1	241.8	242.5	243.2	243.9	244.3	244.4	244.6	244.9	245.1	245.3
122.5°	261.7	262.3	262.8	263.4	263.9	264.2	264.4	264.7	265.0	265.3	265.6
125°	280.2	280.8	281.4	282.1	282.7	283.0	283.2	283.5	283.8	284.2	284.5
127.5°	298.7	299.3	299.9	300.6	301.2	301.5	301.7	302.1	302.5	302.9	303.3
130°	315.7	316.3	317.0	317.6	318.3	318.6	318.8	319.1	319.4	319.7	320.0
132.5°	332.1	332.7	333.3	334.0	334.6	334.9	335.0	335.3	335.5	335.8	336.0
135°	348.8	349.3	349.7	350.2	350.7	350.9	351.1	351.4	351.7	352.1	352.4
137.5°	363.0	363.6	364.3	364.9	365.6	365.9	366.0	366.1	366.3	366.4	366.6
140°	377.3	377.8	378.2	378.7	379.2	379.4	379.5	379.8	380.0	380.3	380.5
142.5°	390.4	390.9	391.3	391.8	392.3	392.5	392.6	392.9	393.1	393.4	393.6
145°	402.5	403.1	403.6	404.2	404.7	405.0	405.1	405.2	405.4	405.5	405.7
147.5°	414.2	414.6	415.0	415.4	415.8	416.0	416.1	416.2	416.4	416.5	416.7
150°	424.9	425.1	425.4	425.6	425.9	426.0	426.1	426.2	426.4	426.5	426.7
152.5°	434.5	434.6	434.7	434.8	434.9	434.9	434.9	435.0	435.1	435.1	435.2
155°	443.4	443.2	443.1	442.9	442.8	442.7	442.7	442.8	442.9	442.9	443.0
157.5°	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.4	450.3	450.3	450.2
160°	456.9	456.8	456.8	456.7	456.6	456.6	456.6	456.5	456.4	456.3	456.2
162.5°	463.0	462.8	462.5	462.3	462.0	461.9	461.9	461.8	461.7	461.6	461.5
165°	467.6	467.4	467.1	466.9	466.6	466.5	466.5	466.4	466.3	466.3	466.2
167.5°	471.5	471.2	470.9	470.6	470.3	470.1	470.1	470.1	470.1	470.1	470.1
170°	474.7	474.4	474.1	473.8	473.5	473.3	473.3	473.3	473.3	473.3	473.3
172.5°	476.8	476.4	476.0	475.6	475.2	475.0	475.0	475.1	475.2	475.3	475.4
175°	478.6	478.2	477.8	477.4	477.0	476.8	476.8	476.9	477.0	477.1	477.2
177.5°	479.3	478.9	478.5	478.1	477.7	477.5	477.5	477.6	477.7	477.8	477.9
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1668.2	1668.2	1680.4	1692.6	1685.8	1689.9	1704.8	1699.3	1710.2	1708.8	1712.9
5°	1794.1	1808.9	1821.1	1846.8	1850.9	1846.8	1872.5	1879.3	1891.5	1876.6	1883.4
7.5°	1936.1	1967.2	1997.0	2034.9	2047.1	2049.8	2063.3	2082.2	2098.5	2068.7	2083.6
10°	2074.1	2121.5	2182.4	2216.2	2246.0	2256.8	2267.6	2279.8	2298.7	2316.3	2302.8
12.5°	2223.0	2292.0	2350.1	2411.0	2447.5	2443.5	2474.6	2482.7	2497.6	2501.7	2507.1
15°	2344.7	2442.1	2478.7	2569.3	2577.4	2604.5	2639.7	2670.8	2674.9	2666.7	2666.7
17.5°	2461.1	2545.0	2609.9	2683.0	2697.9	2720.9	2765.5	2780.4	2785.8	2784.4	2784.4
20°	2555.8	2611.3	2720.9	2781.7	2806.1	2835.9	2867.0	2885.9	2890.0	2895.4	2887.3
22.5°	2618.0	2701.9	2791.2	2841.3	2861.6	2872.4	2892.7	2898.1	2891.3	2892.7	2894.0
25°	2666.7	2749.3	2803.4	2816.9	2815.6	2802.0	2787.1	2761.4	2758.7	2747.9	2726.3
27.5°	2680.3	2711.4	2704.6	2649.1	2593.7	2588.3	2499.0	2450.3	2394.8	2402.9	2371.8
30°	2607.2	2566.6	2470.6	2329.8	2271.7	2177.0	2076.8	1972.7	1932.1	1887.4	1969.9
32.5°	2428.6	2283.8	2113.4	1930.7	1833.3	1749.4	1642.5	1566.8	1523.5	1486.9	1557.3
35°	2159.4	1933.4	1707.5	1534.3	1454.5	1378.7	1278.6	1240.7	1186.6	1192.0	1198.7
37.5°	1813.0	1564.1	1393.6	1223.1	1170.3	1139.2	1066.2	1008.0	989.0	983.6	983.6
40°	1488.3	1284.0	1132.4	998.5	957.9	932.2	874.0	847.0	826.7	821.3	828.0
42.5°	1231.2	1056.7	939.0	849.7	821.3	788.8	764.4	730.6	726.6	717.1	729.3
45°	1033.7	882.1	794.2	729.3	704.9	692.7	665.7	645.4	637.3	635.9	645.4
47.5°	876.7	759.0	681.9	641.3	622.4	610.2	587.2	579.1	571.0	573.7	569.6
50°	736.0	648.1	598.0	561.5	549.3	537.1	522.3	514.1	510.1	510.1	508.7
52.5°	631.8	558.8	526.3	492.5	487.1	480.3	464.1	458.7	451.9	450.5	456.0
55°	541.2	491.1	458.7	438.4	433.0	419.4	412.7	405.9	401.8	399.1	400.5
57.5°	462.7	424.8	403.2	385.6	376.1	370.7	358.5	357.2	354.5	354.5	353.1
60°	397.8	370.7	345.0	334.2	327.4	320.7	319.3	311.2	307.1	309.8	308.5
62.5°	336.9	315.2	300.4	288.2	284.1	278.7	274.7	271.9	267.9	269.2	269.2
65°	281.4	263.8	253.0	242.2	240.8	235.4	234.1	231.4	231.4	230.0	232.7
67.5°	231.4	219.2	209.7	202.9	198.9	200.2	194.8	190.8	190.8	189.4	193.5
70°	184.0	177.2	167.8	159.7	154.2	154.2	147.5	146.1	146.1	146.1	144.8
72.5°	142.1	129.9	125.8	123.1	123.1	123.1	120.4	120.4	119.1	120.4	119.1
75°	105.5	104.2	101.5	100.1	100.1	98.8	97.4	97.4	97.4	97.4	97.4
77.5°	82.5	82.5	79.8	78.5	78.5	78.5	77.1	77.1	75.8	75.8	75.8
80°	60.9	60.9	58.2	58.2	58.2	56.8	56.8	56.8	58.2	56.8	56.8
82.5°	41.9	41.9	40.6	41.9	40.6	39.2	39.2	39.2	37.9	39.2	39.2
85°	24.4	24.4	23.0	21.6	23.0	23.0	21.6	23.0	21.6	23.0	21.6
87.5°	9.5	8.1	8.1	8.1	6.8	8.1	6.8	6.8	8.1	6.8	8.1
90°	8.8	9.2	9.5	9.8	10.0	10.1	10.2	10.4	10.5	10.7	10.5
92.5°	9.8	10.3	10.9	11.4	11.7	11.7	11.8	11.9	12.0	12.1	12.0
95°	11.6	12.1	12.7	13.2	13.5	13.5	13.5	13.5	13.5	13.5	13.5
97.5°	12.0	12.6	13.3	13.9	14.2	14.2	14.3	14.4	14.5	14.6	14.5
100°	12.3	13.0	13.6	14.3	14.6	14.6	14.7	14.8	14.8	14.9	14.8
102.5°	23.7	21.1	18.5	15.9	14.6	14.7	14.8	15.0	15.1	15.3	15.1
105°	63.9	49.9	35.9	21.9	14.9	15.0	15.1	15.3	15.4	15.6	15.4
107.5°	126.1	114.0	101.8	89.7	83.6	78.4	68.1	57.7	47.4	37.0	47.4
110°	157.8	155.2	152.5	149.9	148.6	143.0	131.7	120.4	109.1	97.8	109.1

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	183.5	184.2	184.9	185.6	186.0	185.9	185.8	185.6	185.5	185.3	185.5
115°	204.9	205.7	206.5	207.3	207.7	207.9	208.2	208.5	208.8	209.1	208.8
117.5°	225.7	226.3	227.0	227.6	227.9	227.9	228.0	228.1	228.2	228.3	228.2
120°	245.9	246.6	247.2	247.9	248.2	248.2	248.2	248.2	248.2	248.2	248.2
122.5°	266.0	266.4	266.8	267.2	267.4	267.4	267.5	267.6	267.6	267.7	267.6
125°	284.7	284.8	285.0	285.1	285.2	285.3	285.4	285.6	285.7	285.9	285.7
127.5°	303.5	303.8	304.0	304.3	304.4	304.3	304.2	304.0	303.9	303.7	303.9
130°	320.3	320.6	320.9	321.2	321.4	321.3	321.2	321.0	320.9	320.7	320.9
132.5°	336.3	336.6	336.9	337.2	337.4	337.3	337.1	336.8	336.6	336.4	336.6
135°	352.6	352.8	353.1	353.3	353.4	353.3	353.1	352.8	352.6	352.4	352.6
137.5°	367.0	367.4	367.8	368.2	368.4	368.3	368.2	368.0	367.9	367.7	367.9
140°	380.8	381.1	381.4	381.7	381.9	381.8	381.7	381.5	381.4	381.2	381.4
142.5°	393.8	394.1	394.3	394.6	394.7	394.6	394.3	394.1	393.8	393.6	393.8
145°	405.9	406.0	406.2	406.3	406.4	406.4	406.4	406.4	406.4	406.4	406.4
147.5°	416.9	417.0	417.2	417.3	417.4	417.2	416.8	416.5	416.1	415.7	416.1
150°	426.9	427.0	427.2	427.3	427.4	427.3	427.0	426.8	426.5	426.3	426.5
152.5°	435.5	435.8	436.1	436.4	436.6	436.4	436.0	435.7	435.3	434.9	435.3
155°	443.4	443.8	444.2	444.6	444.8	444.6	444.1	443.6	443.2	442.7	443.2
157.5°	450.7	451.1	451.6	452.1	452.3	452.0	451.3	450.7	450.0	449.4	450.0
160°	456.7	457.1	457.6	458.1	458.3	458.0	457.5	456.9	456.4	455.8	456.4
162.5°	462.1	462.6	463.2	463.7	464.0	463.8	463.3	462.8	462.4	461.9	462.4
165°	466.8	467.4	468.1	468.7	469.0	468.7	468.2	467.6	467.1	466.5	467.1
167.5°	470.7	471.3	472.0	472.6	472.9	472.6	472.0	471.3	470.7	470.1	470.7
170°	473.9	474.5	475.2	475.8	476.1	475.8	475.2	474.5	473.9	473.3	473.9
172.5°	476.0	476.6	477.3	477.9	478.2	477.8	477.1	476.4	475.7	475.0	475.7
175°	477.8	478.3	478.9	479.4	479.7	479.4	478.7	478.1	477.4	476.8	477.4
177.5°	478.5	479.1	479.8	480.4	480.7	480.3	479.5	478.8	478.0	477.2	478.0
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1706.1	1698.0	1692.6	1688.5	1684.5	1696.6	1680.4	1662.8	1650.6	1642.5	1639.8
5°	1884.7	1867.1	1852.2	1840.1	1842.8	1842.8	1814.4	1783.2	1756.2	1741.3	1725.1
7.5°	2091.7	2072.8	2043.0	2036.2	2030.8	1997.0	1968.6	1911.8	1877.9	1844.1	1814.4
10°	2297.4	2273.0	2244.6	2235.1	2221.6	2179.7	2136.4	2063.3	2021.4	1959.1	1919.9
12.5°	2489.5	2459.7	2431.3	2424.5	2404.3	2367.7	2293.3	2217.5	2145.8	2079.5	2010.5
15°	2650.5	2642.4	2599.1	2572.0	2527.4	2477.3	2461.1	2358.3	2267.6	2198.6	2074.1
17.5°	2785.8	2747.9	2707.3	2689.7	2672.1	2614.0	2555.8	2450.3	2352.8	2251.4	2171.5
20°	2894.0	2852.1	2823.7	2798.0	2789.9	2723.6	2631.6	2538.2	2431.3	2317.7	2213.5
22.5°	2899.4	2894.0	2875.1	2860.2	2844.0	2800.7	2727.6	2611.3	2497.6	2373.1	2236.5
25°	2787.1	2779.0	2833.2	2819.6	2830.4	2814.2	2775.0	2677.6	2545.0	2398.8	2260.8
27.5°	2448.9	2531.4	2616.7	2646.4	2666.7	2724.9	2743.9	2689.7	2582.8	2427.3	2273.0
30°	1988.9	2098.5	2236.5	2310.9	2367.7	2476.0	2616.7	2634.3	2584.2	2459.7	2270.3
32.5°	1561.3	1661.5	1772.4	1860.4	1936.1	2158.0	2347.4	2484.1	2508.4	2443.5	2277.1
35°	1258.3	1301.6	1407.1	1491.0	1593.8	1783.2	2006.5	2227.0	2375.8	2384.0	2256.8
37.5°	1037.7	1060.7	1152.7	1200.1	1261.0	1427.4	1635.8	1923.9	2155.3	2264.9	2200.0
40°	859.1	911.9	964.7	991.7	1035.0	1150.0	1350.3	1576.2	1863.1	2066.0	2112.0
42.5°	745.5	768.5	802.3	840.2	867.3	967.4	1101.3	1308.3	1566.8	1849.5	1976.7
45°	657.6	665.7	700.8	725.2	753.6	824.0	918.7	1091.9	1319.2	1597.9	1814.4
47.5°	584.5	600.7	619.7	634.5	653.5	707.6	788.8	914.6	1114.9	1363.8	1596.5
50°	519.5	529.0	553.4	560.1	573.7	611.5	673.8	769.8	934.9	1133.8	1374.6
52.5°	458.7	476.3	485.7	495.2	507.4	538.5	579.1	657.6	782.0	968.7	1173.0
55°	411.3	416.7	430.2	438.4	447.8	469.5	504.7	562.8	660.3	809.1	1002.6
57.5°	365.3	365.3	378.8	385.6	395.1	411.3	442.4	487.1	557.4	668.4	845.6
60°	316.6	318.0	328.8	336.9	339.6	355.8	381.5	416.7	470.8	552.0	696.8
62.5°	273.3	280.1	285.5	288.2	297.7	307.1	328.8	353.1	391.0	462.7	565.5
65°	236.8	238.1	242.2	244.9	248.9	259.8	276.0	292.2	324.7	377.5	461.4
67.5°	194.8	200.2	205.7	205.7	209.7	215.1	231.4	244.9	269.2	300.4	357.2
70°	146.1	148.8	156.9	161.0	166.4	175.9	184.0	192.1	211.1	234.1	277.4
72.5°	121.8	121.8	124.5	125.8	125.8	132.6	144.8	152.9	162.4	178.6	208.4
75°	97.4	97.4	101.5	100.1	102.8	105.5	106.9	112.3	117.7	129.9	147.5
77.5°	77.1	78.5	78.5	79.8	79.8	81.2	82.5	85.2	87.9	94.7	102.8
80°	56.8	58.2	58.2	59.5	59.5	60.9	62.2	63.6	66.3	69.0	73.1
82.5°	39.2	40.6	40.6	41.9	40.6	41.9	43.3	43.3	44.6	47.4	48.7
85°	23.0	23.0	24.4	23.0	23.0	23.0	24.4	24.4	25.7	29.8	29.8
87.5°	6.8	8.1	6.8	8.1	8.1	8.1	8.1	9.5	9.5	10.8	12.2
90°	10.4	10.2	10.1	10.0	9.8	9.5	9.2	8.8	8.5	7.5	6.5
92.5°	11.9	11.8	11.7	11.7	11.4	10.9	10.3	9.8	9.2	8.5	7.8
95°	13.5	13.5	13.5	13.5	13.2	12.7	12.1	11.6	11.0	10.1	9.3
97.5°	14.4	14.3	14.2	14.2	13.9	13.3	12.6	12.0	11.4	15.4	19.4
100°	14.8	14.7	14.6	14.6	14.3	13.6	13.0	12.3	11.7	24.0	36.4
102.5°	15.0	14.8	14.7	14.6	15.9	18.5	21.1	23.7	26.3	40.1	53.8
105°	15.3	15.1	15.0	14.9	21.9	35.9	49.9	63.9	77.9	85.0	92.1
107.5°	57.7	68.1	78.4	83.6	89.7	101.8	114.0	126.1	138.3	137.1	135.9
110°	120.4	131.7	143.0	148.6	149.9	152.5	155.2	157.8	160.4	159.5	158.7

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	185.6	185.8	185.9	186.0	185.6	184.9	184.2	183.5	182.8	181.9	181.1
115°	208.5	208.2	207.9	207.7	207.3	206.5	205.7	204.9	204.1	203.4	202.7
117.5°	228.1	228.0	227.9	227.9	227.6	227.0	226.3	225.7	225.1	224.7	224.3
120°	248.2	248.2	248.2	248.2	247.9	247.2	246.6	245.9	245.3	245.1	244.9
122.5°	267.6	267.5	267.4	267.4	267.2	266.8	266.4	266.0	265.6	265.3	265.0
125°	285.6	285.4	285.3	285.2	285.1	285.0	284.8	284.7	284.5	284.2	283.8
127.5°	304.0	304.2	304.3	304.4	304.3	304.0	303.8	303.5	303.3	302.9	302.5
130°	321.0	321.2	321.3	321.4	321.2	320.9	320.6	320.3	320.0	319.7	319.4
132.5°	336.8	337.1	337.3	337.4	337.2	336.9	336.6	336.3	336.0	335.8	335.5
135°	352.8	353.1	353.3	353.4	353.3	353.1	352.8	352.6	352.4	352.1	351.7
137.5°	368.0	368.2	368.3	368.4	368.2	367.8	367.4	367.0	366.6	366.4	366.3
140°	381.5	381.7	381.8	381.9	381.7	381.4	381.1	380.8	380.5	380.3	380.0
142.5°	394.1	394.3	394.6	394.7	394.6	394.3	394.1	393.8	393.6	393.4	393.1
145°	406.4	406.4	406.4	406.4	406.3	406.2	406.0	405.9	405.7	405.5	405.4
147.5°	416.5	416.8	417.2	417.4	417.3	417.2	417.0	416.9	416.7	416.5	416.4
150°	426.8	427.0	427.3	427.4	427.3	427.2	427.0	426.9	426.7	426.5	426.4
152.5°	435.7	436.0	436.4	436.6	436.4	436.1	435.8	435.5	435.2	435.1	435.1
155°	443.6	444.1	444.6	444.8	444.6	444.2	443.8	443.4	443.0	442.9	442.9
157.5°	450.7	451.3	452.0	452.3	452.1	451.6	451.1	450.7	450.2	450.3	450.3
160°	456.9	457.5	458.0	458.3	458.1	457.6	457.1	456.7	456.2	456.3	456.4
162.5°	462.8	463.3	463.8	464.0	463.7	463.2	462.6	462.1	461.5	461.6	461.7
165°	467.6	468.2	468.7	469.0	468.7	468.1	467.4	466.8	466.2	466.3	466.3
167.5°	471.3	472.0	472.6	472.9	472.6	472.0	471.3	470.7	470.1	470.1	470.1
170°	474.5	475.2	475.8	476.1	475.8	475.2	474.5	473.9	473.3	473.3	473.3
172.5°	476.4	477.1	477.8	478.2	477.9	477.3	476.6	476.0	475.4	475.3	475.2
175°	478.1	478.7	479.4	479.7	479.4	478.9	478.3	477.8	477.2	477.1	477.0
177.5°	478.8	479.5	480.3	480.7	480.4	479.8	479.1	478.5	477.9	477.8	477.7
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1635.8	1629.0	1622.2	1622.2	1607.3	1593.8	1587.1	1589.8	1581.6	1570.8	1560.0
5°	1707.5	1680.4	1675.0	1660.1	1639.8	1611.4	1596.5	1583.0	1566.8	1545.1	1524.8
7.5°	1773.8	1738.6	1719.6	1704.8	1665.5	1626.3	1593.8	1572.2	1543.8	1511.3	1486.9
10°	1860.4	1795.4	1775.1	1741.3	1685.8	1630.3	1592.5	1557.3	1518.0	1480.2	1447.7
12.5°	1929.4	1854.9	1817.1	1783.2	1711.5	1641.2	1577.6	1534.3	1486.9	1445.0	1403.0
15°	2007.8	1923.9	1857.6	1817.1	1726.4	1641.2	1569.5	1508.6	1455.8	1404.4	1367.9
17.5°	2045.7	1940.2	1910.4	1852.2	1721.0	1635.8	1547.8	1482.9	1419.3	1359.7	1316.5
20°	2105.2	1982.1	1907.7	1868.5	1752.1	1626.3	1523.5	1449.0	1382.8	1319.2	1273.2
22.5°	2109.3	1975.4	1926.7	1852.2	1708.8	1597.9	1501.8	1411.2	1334.0	1274.5	1227.2
25°	2099.8	1963.2	1895.5	1836.0	1716.9	1581.6	1458.5	1369.2	1293.5	1224.5	1169.0
27.5°	2095.8	1928.0	1864.4	1804.9	1670.9	1534.3	1432.8	1331.3	1244.7	1183.9	1127.0
30°	2090.4	1890.1	1813.0	1744.0	1620.9	1497.8	1376.0	1288.0	1205.5	1128.4	1071.6
32.5°	2055.2	1838.7	1760.2	1687.2	1554.6	1431.5	1335.4	1242.0	1152.7	1081.0	1029.6
35°	2044.4	1791.4	1688.5	1610.1	1480.2	1370.6	1269.1	1192.0	1108.1	1036.4	975.5
37.5°	2013.2	1742.6	1631.7	1531.6	1396.3	1292.1	1217.7	1140.6	1059.4	982.3	933.6
40°	1959.1	1685.8	1560.0	1457.2	1317.8	1212.3	1143.3	1086.4	1006.6	937.6	878.1
42.5°	1879.3	1627.6	1492.3	1384.1	1229.9	1131.1	1074.3	1020.2	952.5	880.8	832.1
45°	1787.3	1550.5	1424.7	1304.3	1147.3	1051.3	991.7	959.3	897.0	836.1	779.3
47.5°	1661.5	1470.7	1346.2	1221.7	1062.1	968.7	921.4	888.9	845.6	779.3	733.3
50°	1503.2	1367.9	1250.2	1139.2	978.2	888.9	841.6	817.2	780.7	733.3	688.7
52.5°	1327.3	1248.8	1151.4	1048.6	893.0	809.1	765.8	746.8	719.8	675.1	637.3
55°	1150.0	1116.2	1049.9	948.4	803.7	734.7	696.8	672.4	652.1	619.7	587.2
57.5°	991.7	975.5	929.5	851.0	729.3	657.6	625.1	608.8	592.6	568.3	535.8
60°	828.0	845.6	798.3	759.0	648.1	585.8	557.4	539.8	531.7	510.1	489.8
62.5°	686.0	702.2	675.1	645.4	566.9	511.4	493.8	477.6	472.2	453.2	433.0
65°	557.4	577.7	557.4	541.2	493.8	447.8	426.2	418.1	412.7	400.5	384.2
67.5°	443.8	464.1	454.6	434.3	419.4	381.5	369.4	361.2	358.5	349.1	335.5
70°	334.2	362.6	365.3	353.1	339.6	322.0	313.9	311.2	304.4	296.3	288.2
72.5°	240.8	273.3	274.7	274.7	266.5	266.5	258.4	254.4	254.4	246.2	236.8
75°	177.2	198.9	201.6	204.3	208.4	212.4	207.0	207.0	205.7	197.5	193.5
77.5°	117.7	136.7	143.4	152.9	158.3	158.3	161.0	163.7	161.0	156.9	154.2
80°	75.8	89.3	97.4	102.8	110.9	115.0	119.1	120.4	117.7	116.4	112.3
82.5°	50.1	54.1	58.2	64.9	74.4	81.2	81.2	79.8	82.5	81.2	79.8
85°	28.4	31.1	32.5	33.8	39.2	46.0	47.4	48.7	51.4	48.7	46.0
87.5°	10.8	12.2	12.2	12.2	14.9	16.2	20.3	25.7	24.4	21.6	21.6
90°	5.4	4.4	3.9	3.5	2.7	2.0	1.2	0.4	1.2	2.0	2.7
92.5°	7.1	6.4	6.0	6.2	6.7	7.2	7.7	8.2	7.7	7.2	6.7
95°	8.4	7.5	7.1	8.7	12.0	15.2	18.5	21.7	18.5	15.2	12.0
97.5°	23.5	27.5	29.5	30.6	32.8	35.1	37.3	39.5	37.3	35.1	32.8
100°	48.7	61.0	67.2	66.4	64.8	63.3	61.7	60.1	61.7	63.3	64.8
102.5°	67.6	81.3	88.2	87.7	86.7	85.6	84.6	83.6	84.6	85.6	86.7
105°	99.2	106.3	109.9	109.5	108.6	107.7	106.9	106.0	106.9	107.7	108.6
107.5°	134.8	133.6	133.0	132.6	131.9	131.2	130.5	129.8	130.5	131.2	131.9
110°	157.8	156.9	156.5	156.2	155.5	154.9	154.2	153.6	154.2	154.9	155.5

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	180.2	179.3	178.9	178.6	178.1	177.5	177.0	176.4	177.0	177.5	178.1
115°	202.0	201.3	200.9	200.7	200.2	199.7	199.3	198.8	199.3	199.7	200.2
117.5°	223.9	223.5	223.3	223.0	222.5	221.9	221.4	220.8	221.4	221.9	222.5
120°	244.6	244.4	244.3	243.9	243.2	242.5	241.8	241.1	241.8	242.5	243.2
122.5°	264.7	264.4	264.2	263.9	263.4	262.8	262.3	261.7	262.3	262.8	263.4
125°	283.5	283.2	283.0	282.7	282.1	281.4	280.8	280.2	280.8	281.4	282.1
127.5°	302.1	301.7	301.5	301.2	300.6	299.9	299.3	298.7	299.3	299.9	300.6
130°	319.1	318.8	318.6	318.3	317.6	317.0	316.3	315.7	316.3	317.0	317.6
132.5°	335.3	335.0	334.9	334.6	334.0	333.3	332.7	332.1	332.7	333.3	334.0
135°	351.4	351.1	350.9	350.7	350.2	349.7	349.3	348.8	349.3	349.7	350.2
137.5°	366.1	366.0	365.9	365.6	364.9	364.3	363.6	363.0	363.6	364.3	364.9
140°	379.8	379.5	379.4	379.2	378.7	378.2	377.8	377.3	377.8	378.2	378.7
142.5°	392.9	392.6	392.5	392.3	391.8	391.3	390.9	390.4	390.9	391.3	391.8
145°	405.2	405.1	405.0	404.7	404.2	403.6	403.1	402.5	403.1	403.6	404.2
147.5°	416.2	416.1	416.0	415.8	415.4	415.0	414.6	414.2	414.6	415.0	415.4
150°	426.2	426.1	426.0	425.9	425.6	425.4	425.1	424.9	425.1	425.4	425.6
152.5°	435.0	434.9	434.9	434.9	434.8	434.7	434.6	434.5	434.6	434.7	434.8
155°	442.8	442.7	442.7	442.8	442.9	443.1	443.2	443.4	443.2	443.1	442.9
157.5°	450.4	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5	450.5
160°	456.5	456.6	456.6	456.6	456.7	456.8	456.8	456.9	456.8	456.8	456.7
162.5°	461.8	461.9	461.9	462.0	462.3	462.5	462.8	463.0	462.8	462.5	462.3
165°	466.4	466.5	466.5	466.6	466.9	467.1	467.4	467.6	467.4	467.1	466.9
167.5°	470.1	470.1	470.1	470.3	470.6	470.9	471.2	471.5	471.2	470.9	470.6
170°	473.3	473.3	473.3	473.5	473.8	474.1	474.4	474.7	474.4	474.1	473.8
172.5°	475.1	475.0	475.0	475.2	475.6	476.0	476.4	476.8	476.4	476.0	475.6
175°	476.9	476.8	476.8	477.0	477.4	477.8	478.2	478.6	478.2	477.8	477.4
177.5°	477.6	477.5	477.5	477.7	478.1	478.5	478.9	479.3	478.9	478.5	478.1
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1560.0	1553.2	1550.5	1543.8	1527.5	1516.7	1504.5	1496.4	1497.8	1491.0	1495.0
5°	1511.3	1509.9	1500.5	1486.9	1463.9	1451.8	1430.1	1419.3	1413.9	1415.2	1407.1
7.5°	1470.7	1458.5	1451.8	1430.1	1408.5	1382.8	1365.2	1355.7	1347.6	1339.5	1334.0
10°	1424.7	1413.9	1403.0	1380.0	1350.3	1325.9	1301.6	1292.1	1279.9	1274.5	1270.5
12.5°	1376.0	1369.2	1355.7	1328.6	1294.8	1271.8	1243.4	1238.0	1221.7	1210.9	1208.2
15°	1331.3	1327.3	1302.9	1271.8	1238.0	1215.0	1190.6	1174.4	1147.3	1152.7	1143.3
17.5°	1284.0	1266.4	1251.5	1209.6	1193.3	1158.2	1129.7	1121.6	1102.7	1090.5	1078.3
20°	1231.2	1220.4	1201.5	1174.4	1135.2	1094.6	1072.9	1059.4	1048.6	1029.6	1024.2
22.5°	1181.2	1167.6	1151.4	1116.2	1082.4	1048.6	1018.8	1006.6	993.1	979.6	971.4
25°	1141.9	1121.6	1104.0	1060.7	1026.9	998.5	979.6	959.3	940.3	932.2	929.5
27.5°	1081.0	1068.9	1051.3	1010.7	979.6	948.4	930.9	917.3	897.0	887.6	879.4
30°	1041.8	1017.4	997.1	964.7	933.6	899.7	883.5	867.3	855.1	842.9	833.4
32.5°	989.0	970.1	953.9	921.4	890.3	859.1	841.6	817.2	810.4	801.0	790.1
35°	937.6	925.4	907.9	872.7	838.9	817.2	798.3	775.3	767.1	760.4	750.9
37.5°	888.9	871.3	859.1	825.3	795.6	769.8	755.0	736.0	730.6	722.5	715.7
40°	847.0	829.4	817.2	783.4	752.3	725.2	715.7	696.8	688.7	679.2	675.1
42.5°	799.6	784.7	768.5	744.1	711.7	684.6	665.7	654.8	644.0	640.0	631.8
45°	749.6	736.0	723.8	696.8	663.0	644.0	627.8	612.9	604.8	598.0	592.6
47.5°	706.3	694.1	677.8	648.1	621.0	603.4	587.2	572.3	564.2	556.1	549.3
50°	656.2	649.4	631.8	603.4	577.7	557.4	542.5	529.0	523.6	514.1	503.3
52.5°	611.5	599.4	584.5	561.5	538.5	514.1	493.8	485.7	476.3	470.8	461.4
55°	558.8	550.7	534.4	514.1	489.8	469.5	454.6	443.8	431.6	426.2	414.0
57.5°	514.1	499.3	491.1	465.4	442.4	422.1	411.3	400.5	387.0	378.8	373.4
60°	465.4	451.9	439.7	418.1	401.8	380.2	364.0	354.5	345.0	334.2	328.8
62.5°	418.1	407.2	392.4	374.8	354.5	336.9	324.7	311.2	305.8	295.0	290.9
65°	366.7	358.5	346.4	326.1	309.8	295.0	282.8	271.9	266.5	262.5	259.8
67.5°	320.7	309.8	301.7	284.1	266.5	254.4	247.6	240.8	234.1	230.0	225.9
70°	273.3	265.2	257.1	240.8	228.7	217.8	212.4	207.0	202.9	198.9	194.8
72.5°	224.6	220.5	212.4	201.6	192.1	184.0	179.9	173.2	169.1	162.4	159.7
75°	185.4	178.6	174.5	165.1	156.9	150.2	144.8	136.7	131.2	128.5	127.2
77.5°	146.1	143.4	138.0	129.9	125.8	119.1	110.9	108.2	105.5	105.5	104.2
80°	109.6	105.5	101.5	94.7	90.6	85.2	85.2	85.2	83.9	85.2	83.9
82.5°	74.4	71.7	69.0	64.9	63.6	63.6	64.9	64.9	64.9	64.9	64.9
85°	43.3	43.3	43.3	44.6	43.3	43.3	44.6	46.0	44.6	44.6	43.3
87.5°	20.3	20.3	21.6	21.6	23.0	23.0	23.0	23.0	23.0	23.0	24.4
90°	3.5	3.9	4.4	5.4	6.5	7.5	8.5	8.8	9.2	9.5	9.8
92.5°	6.2	6.0	6.4	7.1	7.8	8.5	9.2	9.8	10.3	10.9	11.4
95°	8.7	7.1	7.5	8.4	9.3	10.1	11.0	11.6	12.1	12.7	13.2
97.5°	30.6	29.5	27.5	23.5	19.4	15.4	11.4	12.0	12.6	13.3	13.9
100°	66.4	67.2	61.0	48.7	36.4	24.0	11.7	12.3	13.0	13.6	14.3
102.5°	87.7	88.2	81.3	67.6	53.8	40.1	26.3	23.7	21.1	18.5	15.9
105°	109.5	109.9	106.3	99.2	92.1	85.0	77.9	63.9	49.9	35.9	21.9
107.5°	132.6	133.0	133.6	134.8	135.9	137.1	138.3	126.1	114.0	101.8	89.7
110°	156.2	156.5	156.9	157.8	158.7	159.5	160.4	157.8	155.2	152.5	149.9

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	178.6	178.9	179.3	180.2	181.1	181.9	182.8	183.5	184.2	184.9	185.6
115°	200.7	200.9	201.3	202.0	202.7	203.4	204.1	204.9	205.7	206.5	207.3
117.5°	223.0	223.3	223.5	223.9	224.3	224.7	225.1	225.7	226.3	227.0	227.6
120°	243.9	244.3	244.4	244.6	244.9	245.1	245.3	245.9	246.6	247.2	247.9
122.5°	263.9	264.2	264.4	264.7	265.0	265.3	265.6	266.0	266.4	266.8	267.2
125°	282.7	283.0	283.2	283.5	283.8	284.2	284.5	284.7	284.8	285.0	285.1
127.5°	301.2	301.5	301.7	302.1	302.5	302.9	303.3	303.5	303.8	304.0	304.3
130°	318.3	318.6	318.8	319.1	319.4	319.7	320.0	320.3	320.6	320.9	321.2
132.5°	334.6	334.9	335.0	335.3	335.5	335.8	336.0	336.3	336.6	336.9	337.2
135°	350.7	350.9	351.1	351.4	351.7	352.1	352.4	352.6	352.8	353.1	353.3
137.5°	365.6	365.9	366.0	366.1	366.3	366.4	366.6	367.0	367.4	367.8	368.2
140°	379.2	379.4	379.5	379.8	380.0	380.3	380.5	380.8	381.1	381.4	381.7
142.5°	392.3	392.5	392.6	392.9	393.1	393.4	393.6	393.8	394.1	394.3	394.6
145°	404.7	405.0	405.1	405.2	405.4	405.5	405.7	405.9	406.0	406.2	406.3
147.5°	415.8	416.0	416.1	416.2	416.4	416.5	416.7	416.9	417.0	417.2	417.3
150°	425.9	426.0	426.1	426.2	426.4	426.5	426.7	426.9	427.0	427.2	427.3
152.5°	434.9	434.9	434.9	435.0	435.1	435.1	435.2	435.5	435.8	436.1	436.4
155°	442.8	442.7	442.7	442.8	442.9	442.9	443.0	443.4	443.8	444.2	444.6
157.5°	450.5	450.5	450.5	450.4	450.3	450.3	450.2	450.7	451.1	451.6	452.1
160°	456.6	456.6	456.6	456.5	456.4	456.3	456.2	456.7	457.1	457.6	458.1
162.5°	462.0	461.9	461.9	461.8	461.7	461.6	461.5	462.1	462.6	463.2	463.7
165°	466.6	466.5	466.5	466.4	466.3	466.3	466.2	466.8	467.4	468.1	468.7
167.5°	470.3	470.1	470.1	470.1	470.1	470.1	470.1	470.7	471.3	472.0	472.6
170°	473.5	473.3	473.3	473.3	473.3	473.3	473.3	473.9	474.5	475.2	475.8
172.5°	475.2	475.0	475.0	475.1	475.2	475.3	475.4	476.0	476.6	477.3	477.9
175°	477.0	476.8	476.8	476.9	477.0	477.1	477.2	477.8	478.3	478.9	479.4
177.5°	477.7	477.5	477.5	477.6	477.7	477.8	477.9	478.5	479.1	479.8	480.4
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1493.7	1495.0	1491.0	1482.9	1481.5	1484.2	1492.3	1489.6	1482.9	1495.0	1484.2
5°	1411.2	1404.4	1401.7	1404.4	1396.3	1392.2	1400.3	1396.3	1400.3	1401.7	1405.8
7.5°	1331.3	1332.7	1324.6	1325.9	1315.1	1317.8	1317.8	1317.8	1321.9	1324.6	1330.0
10°	1262.3	1265.0	1255.6	1256.9	1248.8	1243.4	1247.5	1255.6	1255.6	1255.6	1258.3
12.5°	1206.9	1194.7	1187.9	1186.6	1177.1	1174.4	1182.5	1185.2	1192.0	1192.0	1196.0
15°	1137.9	1135.2	1129.7	1129.7	1106.7	1112.2	1114.9	1124.3	1137.9	1127.0	1129.7
17.5°	1075.6	1068.9	1062.1	1059.4	1056.7	1048.6	1059.4	1058.0	1066.2	1067.5	1071.6
20°	1020.2	1014.7	1001.2	1002.6	1005.3	993.1	999.9	999.9	1008.0	1016.1	1025.6
22.5°	966.0	960.6	953.9	956.6	948.4	945.7	945.7	952.5	962.0	968.7	967.4
25°	924.1	914.6	910.6	906.5	902.4	905.1	901.1	907.9	914.6	918.7	914.6
27.5°	876.7	872.7	864.6	860.5	853.7	856.4	859.1	864.6	868.6	868.6	872.7
30°	830.7	825.3	822.6	818.6	818.6	813.1	814.5	819.9	824.0	828.0	833.4
32.5°	786.1	782.0	778.0	778.0	775.3	773.9	772.6	780.7	780.7	788.8	788.8
35°	749.6	742.8	742.8	736.0	738.7	737.4	734.7	740.1	741.4	746.8	745.5
37.5°	709.0	709.0	706.3	699.5	694.1	695.4	702.2	702.2	706.3	704.9	709.0
40°	668.4	665.7	665.7	661.6	660.3	658.9	660.3	661.6	668.4	667.0	668.4
42.5°	627.8	629.1	622.4	622.4	622.4	618.3	619.7	621.0	623.7	626.4	630.5
45°	588.5	585.8	584.5	581.8	579.1	580.4	579.1	584.5	583.1	585.8	589.9
47.5°	546.6	542.5	541.2	535.8	535.8	538.5	537.1	541.2	542.5	546.6	543.9
50°	506.0	500.6	496.5	497.9	489.8	492.5	492.5	496.5	500.6	502.0	504.7
52.5°	458.7	457.3	456.0	449.2	447.8	446.5	447.8	449.2	454.6	458.7	460.0
55°	412.7	411.3	403.2	400.5	396.4	396.4	399.1	400.5	410.0	411.3	416.7
57.5°	370.7	366.7	357.2	355.8	355.8	355.8	351.8	357.2	359.9	366.7	366.7
60°	324.7	324.7	316.6	316.6	318.0	316.6	316.6	318.0	318.0	323.4	326.1
62.5°	288.2	286.8	286.8	284.1	282.8	284.1	282.8	282.8	284.1	288.2	292.2
65°	255.7	254.4	253.0	251.7	248.9	248.9	250.3	253.0	253.0	255.7	257.1
67.5°	224.6	224.6	221.9	221.9	220.5	219.2	220.5	219.2	224.6	224.6	225.9
70°	193.5	192.1	188.1	186.7	182.7	184.0	184.0	188.1	189.4	192.1	194.8
72.5°	155.6	155.6	152.9	150.2	151.5	148.8	148.8	150.2	150.2	154.2	155.6
75°	128.5	125.8	124.5	125.8	124.5	127.2	124.5	124.5	127.2	127.2	127.2
77.5°	105.5	105.5	104.2	104.2	105.5	104.2	105.5	105.5	105.5	104.2	105.5
80°	86.6	85.2	85.2	85.2	83.9	83.9	83.9	83.9	83.9	83.9	83.9
82.5°	64.9	64.9	63.6	64.9	64.9	63.6	64.9	63.6	63.6	64.9	64.9
85°	43.3	46.0	43.3	43.3	44.6	44.6	46.0	44.6	46.0	43.3	44.6
87.5°	23.0	24.4	24.4	23.0	23.0	24.4	24.4	24.4	25.7	23.0	24.4
90°	10.0	10.1	10.2	10.4	10.5	10.7	10.5	10.4	10.2	10.1	10.0
92.5°	11.7	11.7	11.8	11.9	12.0	12.1	12.0	11.9	11.8	11.7	11.7
95°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
97.5°	14.2	14.2	14.3	14.4	14.5	14.6	14.5	14.4	14.3	14.2	14.2
100°	14.6	14.6	14.7	14.8	14.8	14.9	14.8	14.8	14.7	14.6	14.6
102.5°	14.6	14.7	14.8	15.0	15.1	15.3	15.1	15.0	14.8	14.7	14.6
105°	14.9	15.0	15.1	15.3	15.4	15.6	15.4	15.3	15.1	15.0	14.9
107.5°	83.6	78.4	68.1	57.7	47.4	37.0	47.4	57.7	68.1	78.4	83.6
110°	148.6	143.0	131.7	120.4	109.1	97.8	109.1	120.4	131.7	143.0	148.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	186.0	185.9	185.8	185.6	185.5	185.3	185.5	185.6	185.8	185.9	186.0
115°	207.7	207.9	208.2	208.5	208.8	209.1	208.8	208.5	208.2	207.9	207.7
117.5°	227.9	227.9	228.0	228.1	228.2	228.3	228.2	228.1	228.0	227.9	227.9
120°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
122.5°	267.4	267.4	267.5	267.6	267.6	267.7	267.6	267.6	267.5	267.4	267.4
125°	285.2	285.3	285.4	285.6	285.7	285.9	285.7	285.6	285.4	285.3	285.2
127.5°	304.4	304.3	304.2	304.0	303.9	303.7	303.9	304.0	304.2	304.3	304.4
130°	321.4	321.3	321.2	321.0	320.9	320.7	320.9	321.0	321.2	321.3	321.4
132.5°	337.4	337.3	337.1	336.8	336.6	336.4	336.6	336.8	337.1	337.3	337.4
135°	353.4	353.3	353.1	352.8	352.6	352.4	352.6	352.8	353.1	353.3	353.4
137.5°	368.4	368.3	368.2	368.0	367.9	367.7	367.9	368.0	368.2	368.3	368.4
140°	381.9	381.8	381.7	381.5	381.4	381.2	381.4	381.5	381.7	381.8	381.9
142.5°	394.7	394.6	394.3	394.1	393.8	393.6	393.8	394.1	394.3	394.6	394.7
145°	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4	406.4
147.5°	417.4	417.2	416.8	416.5	416.1	415.7	416.1	416.5	416.8	417.2	417.4
150°	427.4	427.3	427.0	426.8	426.5	426.3	426.5	426.8	427.0	427.3	427.4
152.5°	436.6	436.4	436.0	435.7	435.3	434.9	435.3	435.7	436.0	436.4	436.6
155°	444.8	444.6	444.1	443.6	443.2	442.7	443.2	443.6	444.1	444.6	444.8
157.5°	452.3	452.0	451.3	450.7	450.0	449.4	450.0	450.7	451.3	452.0	452.3
160°	458.3	458.0	457.5	456.9	456.4	455.8	456.4	456.9	457.5	458.0	458.3
162.5°	464.0	463.8	463.3	462.8	462.4	461.9	462.4	462.8	463.3	463.8	464.0
165°	469.0	468.7	468.2	467.6	467.1	466.5	467.1	467.6	468.2	468.7	469.0
167.5°	472.9	472.6	472.0	471.3	470.7	470.1	470.7	471.3	472.0	472.6	472.9
170°	476.1	475.8	475.2	474.5	473.9	473.3	473.9	474.5	475.2	475.8	476.1
172.5°	478.2	477.8	477.1	476.4	475.7	475.0	475.7	476.4	477.1	477.8	478.2
175°	479.7	479.4	478.7	478.1	477.4	476.8	477.4	478.1	478.7	479.4	479.7
177.5°	480.7	480.3	479.5	478.8	478.0	477.2	478.0	478.8	479.5	480.3	480.7
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3	1580.3
2.5°	1495.0	1500.5	1495.0	1484.2	1495.0	1501.8	1508.6	1519.4	1524.8	1524.8	1532.9
5°	1409.8	1420.6	1416.6	1413.9	1424.7	1431.5	1442.3	1455.8	1470.7	1480.2	1491.0
7.5°	1334.0	1340.8	1347.6	1347.6	1358.4	1373.3	1389.5	1405.8	1424.7	1438.2	1446.3
10°	1267.7	1273.2	1277.2	1282.6	1298.9	1315.1	1336.7	1357.0	1373.3	1388.2	1401.7
12.5°	1204.2	1212.3	1221.7	1225.8	1238.0	1258.3	1278.6	1302.9	1328.6	1343.5	1357.0
15°	1143.3	1147.3	1158.2	1170.3	1181.2	1202.8	1228.5	1254.2	1275.9	1298.9	1311.0
17.5°	1081.0	1082.4	1110.8	1104.0	1139.2	1159.5	1173.0	1197.4	1232.6	1251.5	1270.5
20°	1020.2	1033.7	1045.9	1052.6	1071.6	1094.6	1133.8	1152.7	1181.2	1198.7	1215.0
22.5°	972.8	993.1	993.1	1009.3	1018.8	1040.4	1068.9	1105.4	1136.5	1148.7	1171.7
25°	930.9	940.3	956.6	962.0	979.6	998.5	1017.4	1056.7	1090.5	1106.7	1123.0
27.5°	876.7	888.9	910.6	910.6	933.6	953.9	976.9	1002.6	1036.4	1059.4	1077.0
30°	834.8	847.0	856.4	871.3	880.8	899.7	940.3	959.3	989.0	1009.3	1031.0
32.5°	795.6	805.0	813.1	829.4	840.2	861.9	883.5	917.3	943.0	962.0	985.0
35°	752.3	761.7	772.6	784.7	801.0	821.3	841.6	870.0	895.7	913.3	932.2
37.5°	711.7	718.4	734.7	742.8	756.3	775.3	801.0	830.7	853.7	867.3	886.2
40°	672.4	677.8	690.0	704.9	714.4	729.3	756.3	782.0	810.4	826.7	841.6
42.5°	630.5	637.3	648.1	663.0	677.8	694.1	709.0	738.7	764.4	778.0	794.2
45°	594.0	598.0	606.1	621.0	635.9	648.1	671.1	698.1	722.5	733.3	750.9
47.5°	550.7	554.7	566.9	573.7	589.9	606.1	629.1	656.2	677.8	688.7	704.9
50°	506.0	510.1	518.2	533.1	543.9	561.5	581.8	604.8	631.8	646.7	656.2
52.5°	462.7	470.8	477.6	489.8	503.3	520.9	539.8	561.5	584.5	599.4	610.2
55°	419.4	426.2	434.3	441.1	457.3	473.5	495.2	515.5	535.8	549.3	561.5
57.5°	370.7	380.2	388.3	401.8	414.0	427.5	451.9	468.1	492.5	502.0	512.8
60°	328.8	338.2	345.0	355.8	366.7	384.2	400.5	420.8	441.1	453.2	466.8
62.5°	293.6	297.7	301.7	312.5	323.4	339.6	355.8	376.1	397.8	404.5	415.4
65°	258.4	262.5	269.2	278.7	286.8	296.3	313.9	330.1	350.4	361.2	365.3
67.5°	228.7	232.7	234.1	240.8	247.6	258.4	267.9	284.1	303.1	309.8	318.0
70°	194.8	201.6	202.9	208.4	211.1	217.8	228.7	240.8	255.7	267.9	274.7
72.5°	155.6	165.1	167.8	175.9	179.9	186.7	194.8	204.3	213.8	219.2	224.6
75°	127.2	129.9	131.2	138.0	144.8	154.2	158.3	163.7	171.8	178.6	184.0
77.5°	105.5	106.9	108.2	108.2	109.6	115.0	123.1	129.9	135.3	138.0	142.1
80°	85.2	83.9	83.9	85.2	85.2	85.2	87.9	97.4	100.1	106.9	105.5
82.5°	66.3	63.6	64.9	63.6	63.6	63.6	63.6	64.9	64.9	69.0	71.7
85°	43.3	44.6	43.3	43.3	41.9	43.3	41.9	41.9	40.6	40.6	39.2
87.5°	23.0	24.4	23.0	23.0	21.6	23.0	21.6	21.6	20.3	20.3	17.6
90°	9.8	9.5	9.2	8.8	8.5	7.5	6.5	5.4	4.4	3.9	3.5
92.5°	11.4	10.9	10.3	9.8	9.2	8.5	7.8	7.1	6.4	6.0	6.2
95°	13.2	12.7	12.1	11.6	11.0	10.1	9.3	8.4	7.5	7.1	8.7
97.5°	13.9	13.3	12.6	12.0	11.4	15.4	19.4	23.5	27.5	29.5	30.6
100°	14.3	13.6	13.0	12.3	11.7	24.0	36.4	48.7	61.0	67.2	66.4
102.5°	15.9	18.5	21.1	23.7	26.3	40.1	53.8	67.6	81.3	88.2	87.7
105°	21.9	35.9	49.9	63.9	77.9	85.0	92.1	99.2	106.3	109.9	109.5
107.5°	89.7	101.8	114.0	126.1	138.3	137.1	135.9	134.8	133.6	133.0	132.6
110°	149.9	152.5	155.2	157.8	160.4	159.5	158.7	157.8	156.9	156.5	156.2

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	185.6	184.9	184.2	183.5	182.8	181.9	181.1	180.2	179.3	178.9	178.6
115°	207.3	206.5	205.7	204.9	204.1	203.4	202.7	202.0	201.3	200.9	200.7
117.5°	227.6	227.0	226.3	225.7	225.1	224.7	224.3	223.9	223.5	223.3	223.0
120°	247.9	247.2	246.6	245.9	245.3	245.1	244.9	244.6	244.4	244.3	243.9
122.5°	267.2	266.8	266.4	266.0	265.6	265.3	265.0	264.7	264.4	264.2	263.9
125°	285.1	285.0	284.8	284.7	284.5	284.2	283.8	283.5	283.2	283.0	282.7
127.5°	304.3	304.0	303.8	303.5	303.3	302.9	302.5	302.1	301.7	301.5	301.2
130°	321.2	320.9	320.6	320.3	320.0	319.7	319.4	319.1	318.8	318.6	318.3
132.5°	337.2	336.9	336.6	336.3	336.0	335.8	335.5	335.3	335.0	334.9	334.6
135°	353.3	353.1	352.8	352.6	352.4	352.1	351.7	351.4	351.1	350.9	350.7
137.5°	368.2	367.8	367.4	367.0	366.6	366.4	366.3	366.1	366.0	365.9	365.6
140°	381.7	381.4	381.1	380.8	380.5	380.3	380.0	379.8	379.5	379.4	379.2
142.5°	394.6	394.3	394.1	393.8	393.6	393.4	393.1	392.9	392.6	392.5	392.3
145°	406.3	406.2	406.0	405.9	405.7	405.5	405.4	405.2	405.1	405.0	404.7
147.5°	417.3	417.2	417.0	416.9	416.7	416.5	416.4	416.2	416.1	416.0	415.8
150°	427.3	427.2	427.0	426.9	426.7	426.5	426.4	426.2	426.1	426.0	425.9
152.5°	436.4	436.1	435.8	435.5	435.2	435.1	435.1	435.0	434.9	434.9	434.9
155°	444.6	444.2	443.8	443.4	443.0	442.9	442.9	442.8	442.7	442.7	442.8
157.5°	452.1	451.6	451.1	450.7	450.2	450.3	450.3	450.4	450.5	450.5	450.5
160°	458.1	457.6	457.1	456.7	456.2	456.3	456.4	456.5	456.6	456.6	456.6
162.5°	463.7	463.2	462.6	462.1	461.5	461.6	461.7	461.8	461.9	461.9	462.0
165°	468.7	468.1	467.4	466.8	466.2	466.3	466.3	466.4	466.5	466.5	466.6
167.5°	472.6	472.0	471.3	470.7	470.1	470.1	470.1	470.1	470.1	470.1	470.3
170°	475.8	475.2	474.5	473.9	473.3	473.3	473.3	473.3	473.3	473.3	473.5
172.5°	477.9	477.3	476.6	476.0	475.4	475.3	475.2	475.1	475.0	475.0	475.2
175°	479.4	478.9	478.3	477.8	477.2	477.1	477.0	476.9	476.8	476.8	477.0
177.5°	480.4	479.8	479.1	478.5	477.9	477.8	477.7	477.6	477.5	477.5	477.7
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6

TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1580.3	1580.3	1580.3	1580.3
2.5°	1539.7	1549.2	1568.1	1584.3
5°	1507.2	1522.1	1550.5	1578.9
7.5°	1468.0	1491.0	1527.5	1566.8
10°	1430.1	1459.9	1504.5	1550.5
12.5°	1392.2	1423.3	1470.7	1530.2
15°	1347.6	1380.0	1436.9	1508.6
17.5°	1308.3	1351.6	1403.0	1474.8
20°	1266.4	1298.9	1365.2	1440.9
22.5°	1213.6	1267.7	1330.0	1409.8
25°	1171.7	1219.0	1281.3	1371.9
27.5°	1120.3	1175.7	1251.5	1331.3
30°	1078.3	1124.3	1194.7	1290.7
32.5°	1029.6	1083.7	1156.8	1251.5
35°	986.3	1032.3	1101.3	1197.4
37.5°	934.9	985.0	1062.1	1147.3
40°	890.3	939.0	1012.0	1091.9
42.5°	836.1	887.6	960.6	1028.3
45°	792.8	840.2	898.4	960.6
47.5°	740.1	790.1	847.0	890.3
50°	692.7	738.7	783.4	819.9
52.5°	641.3	683.3	723.8	750.9
55°	594.0	626.4	658.9	677.8
57.5°	538.5	569.6	596.7	607.5
60°	489.8	515.5	533.1	545.3
62.5°	438.4	457.3	470.8	477.6
65°	388.3	401.8	408.6	415.4
67.5°	336.9	349.1	353.1	361.2
70°	282.8	296.3	299.0	303.1
72.5°	242.2	242.2	247.6	253.0
75°	193.5	196.2	198.9	198.9
77.5°	151.5	151.5	154.2	155.6
80°	110.9	112.3	112.3	110.9
82.5°	75.8	78.5	75.8	74.4
85°	41.9	47.4	44.6	44.6
87.5°	17.6	17.6	20.3	17.6
90°	2.7	2.0	1.2	0.4
92.5°	6.7	7.2	7.7	8.2
95°	12.0	15.2	18.5	21.7
97.5°	32.8	35.1	37.3	39.5
100°	64.8	63.3	61.7	60.1
102.5°	86.7	85.6	84.6	83.6
105°	108.6	107.7	106.9	106.0
107.5°	131.9	131.2	130.5	129.8
110°	155.5	154.9	154.2	153.6



TEST NUMBER: P1010790

CATALOG NUMBER: S123RDIP-B1000D365UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	178.1	177.5	177.0	176.4
115°	200.2	199.7	199.3	198.8
117.5°	222.5	221.9	221.4	220.8
120°	243.2	242.5	241.8	241.1
122.5°	263.4	262.8	262.3	261.7
125°	282.1	281.4	280.8	280.2
127.5°	300.6	299.9	299.3	298.7
130°	317.6	317.0	316.3	315.7
132.5°	334.0	333.3	332.7	332.1
135°	350.2	349.7	349.3	348.8
137.5°	364.9	364.3	363.6	363.0
140°	378.7	378.2	377.8	377.3
142.5°	391.8	391.3	390.9	390.4
145°	404.2	403.6	403.1	402.5
147.5°	415.4	415.0	414.6	414.2
150°	425.6	425.4	425.1	424.9
152.5°	434.8	434.7	434.6	434.5
155°	442.9	443.1	443.2	443.4
157.5°	450.5	450.5	450.5	450.5
160°	456.7	456.8	456.8	456.9
162.5°	462.3	462.5	462.8	463.0
165°	466.9	467.1	467.4	467.6
167.5°	470.6	470.9	471.2	471.5
170°	473.8	474.1	474.4	474.7
172.5°	475.6	476.0	476.4	476.8
175°	477.4	477.8	478.2	478.6
177.5°	478.1	478.5	478.9	479.3
180°	478.6	478.6	478.6	478.6

(END OF REPORT)