

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: P1010863

Luminaire Tested: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010863
REPORT IS A COMBINATION OF REPORTS P993089 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

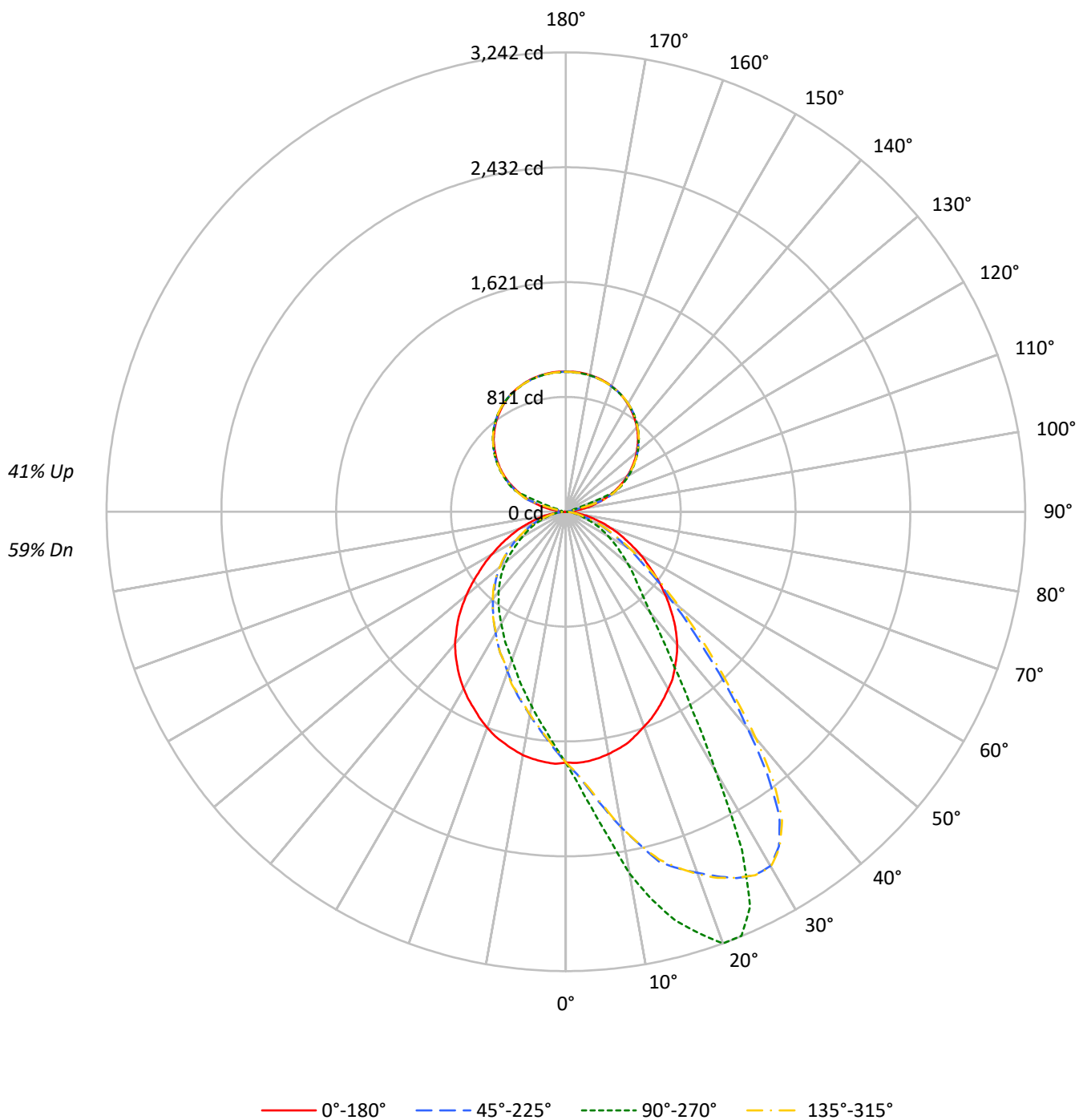
Lumens per Lamp: N/A
Luminaire Lumens: 7421.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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
RCR																	
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	101	96	93	89	94	90	87	84	79	76	74	68	66	65	58	57	56
2	92	85	79	74	86	80	75	70	70	66	63	61	58	55	52	50	48
3	85	75	68	63	79	71	65	60	62	57	53	54	51	48	47	44	42
4	78	67	60	54	72	63	56	51	56	50	46	49	45	41	42	39	37
5	72	60	52	47	67	57	50	44	50	45	40	44	40	36	38	35	32
6	66	54	46	41	62	51	44	39	46	40	36	40	36	32	35	32	29
7	61	49	42	36	57	47	40	35	42	36	32	37	32	29	32	29	26
8	57	45	37	32	53	43	36	31	38	32	28	34	29	26	30	26	23
9	53	41	34	29	50	39	32	28	35	29	26	31	27	23	28	24	21
10	50	38	31	26	47	36	29	25	32	27	23	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19046	19046	19046	19046
5°	19061	21936	19110	16274
10°	18892	26480	18975	14214
15°	18697	30053	18697	12534
20°	18314	32417	18418	11119
25°	18034	30798	17998	10145
30°	17707	21338	17670	9194
35°	17314	13701	17237	8475
40°	16825	9674	16742	7762
45°	15974	7742	15952	7066
50°	14928	6476	14879	6253
55°	13753	5338	13642	5302
60°	12597	4412	12473	4508
65°	11243	3530	11316	3821
70°	9992	2453	10260	3089
75°	8471	1820	8818	2376
80°	6743	1206	7318	1781
85°	4803	572	5235	1108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 25427 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	2.3
10°-20°	544.0	7.3
20°-30°	856.7	11.5
30°-40°	890.8	12.0
40°-50°	762.1	10.3
50°-60°	581.1	7.8
60°-70°	372.3	5.0
70°-80°	178.4	2.4
80°-90°	48.9	0.7
90°-100°	34.9	0.5
100°-110°	168.5	2.3
110°-120°	412.9	5.6
120°-130°	524.2	7.1
130°-140°	560.0	7.5
140°-150°	523.6	7.1
150°-160°	422.4	5.7
160°-170°	272.6	3.7
170°-180°	93.9	1.3
0°-30°	1574.4	21.2
0°-40°	2465.3	33.2
0°-60°	3808.5	51.3
0°-90°	4408.0	59.4
90°-120°	616.3	8.3
90°-150°	2224.1	30.0
90°-180°	3013.0	40.6
0°-180°	7421.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1769	1769	1769	1769	1769	
5°	1768	2101	1772	1559	1768	168
15°	1689	2986	1689	1245	1689	475
25°	1536	3077	1533	1014	1536	708
35°	1341	1335	1335	826	1341	839
45°	1076	712	1074	650	1076	828
55°	759	447	753	444	759	680
65°	465	258	468	279	465	465
75°	223	109	232	142	223	240
85°	50	26	54	50	50	56
90°	1	22	1	22	1	5
95°	45	28	45	28	45	54
105°	219	32	219	32	219	232
115°	410	432	410	432	410	405
125°	579	590	579	590	579	517
135°	720	728	720	728	720	555
145°	831	839	831	839	831	520
155°	916	914	916	914	916	422
165°	966	963	966	963	966	273
175°	988	985	988	985	988	94
180°	988	988	988	988	988	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1774.0	1786.1	1795.2	1801.3	1816.4	1825.5	1833.1	1846.7	1846.7	1849.7	1855.8
5°	1767.9	1793.7	1811.9	1836.1	1867.9	1883.1	1904.3	1922.4	1948.2	1961.8	1975.5
7.5°	1754.3	1790.6	1828.5	1864.9	1911.8	1942.1	1963.3	2010.3	2043.6	2084.5	2116.4
10°	1736.1	1786.1	1834.6	1890.6	1954.3	1999.7	2031.5	2093.6	2157.3	2214.8	2263.3
12.5°	1713.4	1774.0	1843.7	1911.8	2001.2	2046.7	2098.2	2175.4	2266.3	2339.1	2404.2
15°	1689.1	1758.8	1837.6	1920.9	2033.0	2096.7	2170.9	2264.8	2366.3	2470.9	2560.2
17.5°	1651.3	1739.1	1827.0	1948.2	2080.0	2117.9	2181.5	2310.3	2436.0	2529.9	2639.0
20°	1613.4	1711.9	1822.5	1931.5	2073.9	2161.8	2220.9	2357.2	2492.1	2605.7	2710.2
22.5°	1578.6	1681.6	1796.7	1934.6	2067.9	2155.7	2230.0	2372.4	2528.4	2655.7	2784.4
25°	1536.1	1648.2	1775.5	1905.8	2067.9	2134.5	2216.3	2381.5	2546.6	2693.5	2852.6
27.5°	1490.7	1604.3	1730.1	1863.4	2011.8	2110.3	2190.6	2367.8	2569.3	2726.9	2890.5
30°	1445.2	1561.9	1683.1	1802.8	1969.4	2063.3	2155.7	2351.2	2581.4	2761.7	2887.5
32.5°	1401.3	1499.8	1619.5	1736.1	1901.2	2004.3	2108.8	2334.5	2586.0	2737.5	2798.1
35°	1340.7	1443.7	1540.7	1664.9	1831.6	1933.1	2055.8	2333.0	2566.3	2660.2	2629.9
37.5°	1284.7	1371.0	1463.4	1574.0	1745.2	1877.0	2004.3	2293.6	2501.2	2507.2	2336.0
40°	1222.5	1293.8	1371.0	1487.7	1672.5	1802.8	1940.6	2233.0	2383.0	2293.6	1992.1
42.5°	1151.3	1215.0	1275.6	1389.2	1590.7	1736.1	1884.6	2157.3	2211.8	2005.8	1692.2
45°	1075.6	1127.1	1183.2	1302.8	1504.3	1648.2	1796.7	2040.6	1984.6	1693.7	1395.3
47.5°	996.8	1040.8	1095.3	1204.4	1411.9	1558.9	1699.8	1874.0	1731.6	1419.5	1169.5
50°	918.0	952.9	1005.9	1118.0	1318.0	1451.3	1581.6	1695.2	1495.2	1218.0	966.5
52.5°	840.8	868.1	922.6	1018.0	1211.9	1339.2	1433.1	1477.1	1274.1	1005.9	839.3
55°	759.0	789.3	825.6	922.6	1115.0	1208.9	1271.0	1269.5	1060.5	852.9	693.8
57.5°	680.2	707.5	739.3	836.2	992.3	1055.9	1108.9	1083.2	884.7	698.4	595.4
60°	610.5	625.7	660.5	742.3	860.5	915.0	945.3	901.4	722.6	589.3	492.4
62.5°	534.8	549.9	578.7	656.0	728.7	757.5	783.2	727.2	596.9	480.2	421.2
65°	465.1	484.8	503.0	565.1	604.5	639.3	636.3	589.3	466.6	390.9	342.4
67.5°	404.5	412.1	427.2	465.1	483.3	509.0	510.5	457.5	375.7	318.1	289.4
70°	339.3	346.9	357.5	375.7	387.8	393.9	390.9	343.9	283.3	248.4	222.7
72.5°	283.3	281.8	289.4	289.4	301.5	300.0	290.9	254.5	215.1	186.3	171.2
75°	222.7	224.2	225.7	222.7	218.1	212.1	204.5	177.2	151.5	137.9	124.2
77.5°	174.2	171.2	172.7	162.1	156.0	150.0	139.4	125.7	104.5	101.5	95.4
80°	124.2	122.7	121.2	116.6	103.0	97.0	89.4	81.8	77.3	74.2	72.7
82.5°	83.3	83.3	80.3	71.2	63.6	59.1	57.6	54.5	50.0	50.0	48.5
85°	50.0	48.5	45.4	36.4	31.8	31.8	31.8	31.8	28.8	28.8	27.3
87.5°	19.7	18.2	13.6	13.6	12.1	12.1	12.1	10.6	10.6	9.1	9.1
90°	0.7	2.3	4.0	5.6	7.3	8.1	9.2	11.3	13.4	15.5	17.6
92.5°	16.9	15.9	14.9	14.0	13.0	12.5	13.2	14.7	16.2	17.6	19.1
95°	44.8	38.1	31.4	24.7	18.0	14.7	15.6	17.4	19.2	21.0	22.8
97.5°	81.5	76.9	72.3	67.8	63.2	60.9	56.7	48.4	40.1	31.8	23.5
100°	124.1	127.4	130.6	133.9	137.2	138.8	126.1	100.6	75.1	49.7	24.2
102.5°	172.6	174.7	176.8	178.9	181.0	182.1	167.9	139.5	111.1	82.7	54.3
105°	218.8	220.6	222.4	224.2	226.0	226.9	219.6	204.9	190.2	175.5	160.8
107.5°	268.0	269.5	270.9	272.4	273.9	274.6	275.8	278.3	280.7	283.2	285.6
110°	317.2	318.5	319.8	321.1	322.4	323.1	324.0	325.8	327.6	329.4	331.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	364.2	365.3	366.5	367.6	368.7	369.3	370.2	372.0	373.8	375.6	377.4
115°	410.5	411.5	412.5	413.4	414.4	414.9	415.6	417.1	418.6	420.0	421.5
117.5°	456.0	457.1	458.3	459.4	460.5	461.1	461.5	462.3	463.2	464.0	464.8
120°	497.8	499.3	500.7	502.2	503.7	504.4	504.7	505.2	505.7	506.2	506.7
122.5°	540.4	541.6	542.7	543.9	545.0	545.6	545.9	546.6	547.2	547.9	548.5
125°	578.6	579.9	581.2	582.5	583.8	584.5	584.8	585.5	586.1	586.8	587.4
127.5°	616.8	618.1	619.4	620.7	622.0	622.7	623.1	623.9	624.7	625.5	626.3
130°	652.0	653.3	654.6	655.9	657.2	657.9	658.2	658.9	659.5	660.2	660.8
132.5°	685.8	687.1	688.4	689.7	691.0	691.7	691.9	692.4	692.9	693.4	693.9
135°	720.3	721.3	722.3	723.2	724.2	724.7	725.0	725.7	726.4	727.0	727.7
137.5°	749.7	751.0	752.3	753.6	754.9	755.6	755.8	756.1	756.4	756.7	757.0
140°	779.1	780.1	781.1	782.0	783.0	783.5	783.7	784.2	784.7	785.2	785.7
142.5°	806.2	807.2	808.2	809.1	810.1	810.6	810.8	811.3	811.8	812.3	812.8
145°	831.2	832.3	833.5	834.6	835.7	836.3	836.5	836.8	837.1	837.5	837.8
147.5°	855.4	856.2	857.0	857.9	858.7	859.1	859.3	859.6	859.9	860.3	860.6
150°	877.5	878.0	878.5	879.0	879.5	879.7	879.9	880.2	880.5	880.8	881.1
152.5°	897.3	897.5	897.6	897.8	897.9	898.0	898.1	898.3	898.4	898.6	898.8
155°	915.6	915.3	915.0	914.7	914.4	914.2	914.3	914.4	914.6	914.7	914.9
157.5°	930.3	930.3	930.3	930.3	930.3	930.3	930.2	930.1	929.9	929.8	929.6
160°	943.5	943.3	943.2	943.0	942.9	942.8	942.7	942.6	942.4	942.3	942.1
162.5°	956.0	955.5	955.0	954.5	954.0	953.8	953.7	953.6	953.4	953.3	953.1
165°	965.6	965.1	964.6	964.1	963.6	963.4	963.3	963.1	963.0	962.8	962.6
167.5°	973.7	973.0	972.4	971.7	971.0	970.7	970.7	970.7	970.7	970.7	970.7
170°	980.3	979.6	979.0	978.3	977.6	977.3	977.3	977.3	977.3	977.3	977.3
172.5°	984.7	983.9	983.1	982.2	981.4	981.0	981.1	981.2	981.4	981.5	981.7
175°	988.3	987.5	986.7	985.9	985.1	984.7	984.8	984.9	985.1	985.2	985.4
177.5°	989.8	989.0	988.2	987.3	986.5	986.1	986.2	986.4	986.5	986.7	986.9
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1867.9	1867.9	1881.5	1895.2	1887.6	1892.1	1908.8	1902.8	1914.9	1913.4	1917.9
5°	2008.8	2025.5	2039.1	2067.9	2072.4	2067.9	2096.7	2104.2	2117.9	2101.2	2108.8
7.5°	2167.9	2202.7	2236.0	2278.5	2292.1	2295.1	2310.3	2331.5	2349.7	2316.3	2333.0
10°	2322.4	2375.4	2443.6	2481.5	2514.8	2526.9	2539.0	2552.7	2573.9	2593.6	2578.4
12.5°	2489.0	2566.3	2631.4	2699.6	2740.5	2736.0	2770.8	2779.9	2796.6	2801.1	2807.2
15°	2625.4	2734.4	2775.4	2876.9	2885.9	2916.2	2955.6	2990.5	2995.0	2985.9	2985.9
17.5°	2755.7	2849.6	2922.3	3004.1	3020.8	3046.5	3096.5	3113.2	3119.2	3117.7	3117.7
20°	2861.7	2923.8	3046.5	3114.7	3142.0	3175.3	3210.1	3231.3	3235.9	3242.0	3232.9
22.5°	2931.4	3025.3	3125.3	3181.4	3204.1	3216.2	3238.9	3245.0	3237.4	3238.9	3240.4
25°	2985.9	3078.3	3138.9	3154.1	3152.6	3137.4	3120.8	3092.0	3088.9	3076.8	3052.6
27.5°	3001.1	3035.9	3028.3	2966.2	2904.1	2898.1	2798.1	2743.5	2681.4	2690.5	2655.7
30°	2919.3	2873.8	2766.3	2608.7	2543.6	2437.5	2325.4	2208.8	2163.3	2113.3	2205.7
32.5°	2719.3	2557.2	2366.3	2161.8	2052.7	1958.8	1839.1	1754.3	1705.8	1664.9	1743.7
35°	2417.8	2164.8	1911.8	1717.9	1628.6	1543.7	1431.6	1389.2	1328.6	1334.7	1342.2
37.5°	2030.0	1751.3	1560.4	1369.5	1310.4	1275.6	1193.8	1128.6	1107.4	1101.4	1101.4
40°	1666.4	1437.7	1268.0	1118.0	1072.6	1043.8	978.6	948.3	925.6	919.6	927.1
42.5°	1378.6	1183.2	1051.4	951.4	919.6	883.2	855.9	818.1	813.5	802.9	816.5
45°	1157.4	987.7	889.3	816.5	789.3	775.6	745.3	722.6	713.5	712.0	722.6
47.5°	981.7	849.9	763.5	718.1	696.9	683.2	657.5	648.4	639.3	642.3	637.8
50°	824.1	725.7	669.6	628.7	615.1	601.4	584.8	575.7	571.1	571.1	569.6
52.5°	707.5	625.7	589.3	551.4	545.4	537.8	519.6	513.6	506.0	504.5	510.5
55°	606.0	549.9	513.6	490.8	484.8	469.6	462.1	454.5	449.9	446.9	448.4
57.5°	518.1	475.7	451.4	431.8	421.2	415.1	401.5	399.9	396.9	396.9	395.4
60°	445.4	415.1	386.3	374.2	366.6	359.0	357.5	348.4	343.9	346.9	345.4
62.5°	377.2	353.0	336.3	322.7	318.1	312.1	307.5	304.5	300.0	301.5	301.5
65°	315.1	295.4	283.3	271.2	269.7	263.6	262.1	259.1	259.1	257.5	260.6
67.5°	259.1	245.4	234.8	227.2	222.7	224.2	218.1	213.6	213.6	212.1	216.6
70°	206.0	198.5	187.9	178.8	172.7	172.7	165.1	163.6	163.6	163.6	162.1
72.5°	159.1	145.4	140.9	137.9	137.9	137.9	134.8	134.8	133.3	134.8	133.3
75°	118.2	116.6	113.6	112.1	112.1	110.6	109.1	109.1	109.1	109.1	109.1
77.5°	92.4	92.4	89.4	87.9	87.9	87.9	86.4	86.4	84.8	84.8	84.8
80°	68.2	68.2	65.1	65.1	65.1	63.6	63.6	63.6	65.1	63.6	63.6
82.5°	47.0	47.0	45.4	47.0	45.4	43.9	43.9	43.9	42.4	43.9	43.9
85°	27.3	27.3	25.8	24.2	25.8	25.8	24.2	25.8	24.2	25.8	24.2
87.5°	10.6	9.1	9.1	9.1	7.6	9.1	7.6	7.6	9.1	7.6	9.1
90°	18.3	18.9	19.6	20.3	20.6	20.8	21.1	21.4	21.7	22.0	21.7
92.5°	20.2	21.4	22.5	23.6	24.2	24.3	24.5	24.6	24.8	25.0	24.8
95°	23.9	25.1	26.2	27.3	27.9	27.9	27.9	27.9	27.9	27.9	27.9
97.5°	24.8	26.1	27.4	28.7	29.4	29.5	29.6	29.8	29.9	30.1	29.9
100°	25.5	26.8	28.1	29.4	30.1	30.2	30.3	30.5	30.6	30.8	30.6
102.5°	48.9	43.5	38.2	32.8	30.1	30.3	30.6	30.9	31.3	31.6	31.3
105°	131.9	103.0	74.1	45.2	30.8	31.0	31.3	31.6	32.0	32.3	32.0
107.5°	260.5	235.4	210.3	185.2	172.6	161.9	140.5	119.2	97.8	76.4	97.8
110°	325.8	320.4	315.0	309.6	306.9	295.2	271.9	248.6	225.2	201.9	225.2

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	378.9	380.3	381.8	383.3	384.0	383.8	383.5	383.2	382.9	382.6	382.9
115°	423.1	424.7	426.4	428.0	428.8	429.1	429.8	430.5	431.1	431.8	431.1
117.5°	466.1	467.4	468.7	470.0	470.7	470.8	470.9	471.1	471.2	471.4	471.2
120°	508.0	509.3	510.6	511.9	512.5	512.5	512.5	512.5	512.5	512.5	512.5
122.5°	549.3	550.1	551.0	551.8	552.2	552.3	552.4	552.6	552.7	552.9	552.7
125°	587.7	588.1	588.4	588.7	588.9	589.1	589.4	589.7	590.1	590.4	590.1
127.5°	626.8	627.3	627.8	628.3	628.5	628.3	628.0	627.7	627.4	627.1	627.4
130°	661.5	662.1	662.8	663.5	663.8	663.6	663.3	663.0	662.6	662.3	662.6
132.5°	694.5	695.2	695.8	696.5	696.8	696.6	696.1	695.6	695.1	694.6	695.1
135°	728.2	728.7	729.2	729.7	729.9	729.7	729.2	728.7	728.2	727.7	728.2
137.5°	757.8	758.6	759.5	760.3	760.7	760.5	760.2	759.9	759.5	759.2	759.5
140°	786.3	787.0	787.6	788.3	788.6	788.4	788.1	787.8	787.4	787.1	787.4
142.5°	813.3	813.8	814.3	814.8	815.0	814.8	814.3	813.8	813.3	812.8	813.3
145°	838.1	838.5	838.8	839.1	839.3	839.3	839.3	839.3	839.3	839.3	839.3
147.5°	860.9	861.2	861.5	861.8	862.0	861.6	860.8	860.0	859.2	858.4	859.2
150°	881.4	881.8	882.1	882.4	882.6	882.4	881.9	881.4	880.9	880.4	880.9
152.5°	899.4	900.1	900.7	901.4	901.7	901.3	900.5	899.6	898.8	898.0	898.8
155°	915.7	916.5	917.4	918.2	918.6	918.1	917.1	916.2	915.2	914.2	915.2
157.5°	930.6	931.6	932.5	933.5	934.0	933.3	932.0	930.7	929.4	928.1	929.4
160°	943.1	944.1	945.0	946.0	946.5	945.9	944.8	943.6	942.5	941.3	942.5
162.5°	954.2	955.4	956.5	957.6	958.2	957.7	956.7	955.8	954.8	953.8	954.8
165°	963.9	965.2	966.5	967.8	968.5	967.9	966.8	965.7	964.5	963.4	964.5
167.5°	972.0	973.3	974.6	975.9	976.6	975.9	974.6	973.3	972.0	970.7	972.0
170°	978.6	979.9	981.2	982.5	983.2	982.5	981.2	979.9	978.6	977.3	978.6
172.5°	983.0	984.3	985.6	986.9	987.6	986.9	985.4	983.9	982.5	981.0	982.5
175°	986.5	987.7	988.8	989.9	990.5	989.9	988.6	987.3	986.0	984.7	986.0
177.5°	988.2	989.5	990.8	992.1	992.7	991.9	990.3	988.6	987.0	985.4	987.0
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1910.3	1901.2	1895.2	1890.6	1886.1	1899.7	1881.5	1861.8	1848.2	1839.1	1836.1
5°	2110.3	2090.6	2073.9	2060.3	2063.3	2063.3	2031.5	1996.7	1966.4	1949.7	1931.5
7.5°	2342.1	2320.9	2287.5	2280.0	2273.9	2236.0	2204.2	2140.6	2102.7	2064.9	2031.5
10°	2572.4	2545.1	2513.3	2502.7	2487.5	2440.6	2392.1	2310.3	2263.3	2193.6	2149.7
12.5°	2787.5	2754.1	2722.3	2714.8	2692.0	2651.1	2567.8	2483.0	2402.7	2328.4	2251.2
15°	2967.7	2958.7	2910.2	2879.9	2829.9	2773.8	2755.7	2640.5	2539.0	2461.8	2322.4
17.5°	3119.2	3076.8	3031.4	3011.7	2992.0	2926.8	2861.7	2743.5	2634.5	2520.8	2431.5
20°	3240.4	3193.5	3161.7	3132.9	3123.8	3049.6	2946.5	2842.0	2722.3	2595.1	2478.4
22.5°	3246.5	3240.4	3219.2	3202.6	3184.4	3135.9	3054.1	2923.8	2796.6	2657.2	2504.2
25°	3120.8	3111.7	3172.3	3157.1	3169.2	3151.1	3107.1	2998.0	2849.6	2686.0	2531.4
27.5°	2742.0	2834.4	2929.9	2963.2	2985.9	3051.1	3072.3	3011.7	2892.0	2717.8	2545.1
30°	2226.9	2349.7	2504.2	2587.5	2651.1	2772.3	2929.9	2949.6	2893.5	2754.1	2542.1
32.5°	1748.2	1860.3	1984.6	2083.0	2167.9	2416.3	2628.4	2781.4	2808.7	2736.0	2549.6
35°	1408.9	1457.4	1575.5	1669.5	1784.6	1996.7	2246.6	2493.6	2660.2	2669.3	2526.9
37.5°	1162.0	1187.7	1290.7	1343.7	1411.9	1598.3	1831.6	2154.2	2413.3	2536.0	2463.3
40°	962.0	1021.1	1080.1	1110.4	1158.9	1287.7	1511.9	1764.9	2086.1	2313.3	2364.8
42.5°	834.7	860.5	898.4	940.8	971.1	1083.2	1233.2	1464.9	1754.3	2070.9	2213.3
45°	736.3	745.3	784.7	812.0	843.8	922.6	1028.6	1222.5	1477.1	1789.1	2031.5
47.5°	654.4	672.6	693.8	710.5	731.7	792.3	883.2	1024.1	1248.3	1527.0	1787.6
50°	581.7	592.3	619.6	627.2	642.3	684.7	754.4	862.0	1046.8	1269.5	1539.2
52.5°	513.6	533.3	543.9	554.5	568.1	602.9	648.4	736.3	875.6	1084.7	1313.4
55°	460.5	466.6	481.7	490.8	501.4	525.7	565.1	630.2	739.3	905.9	1122.6
57.5°	409.0	409.0	424.2	431.8	442.4	460.5	495.4	545.4	624.2	748.4	946.8
60°	354.5	356.0	368.1	377.2	380.2	398.4	427.2	466.6	527.2	618.1	780.2
62.5°	306.0	313.6	319.7	322.7	333.3	343.9	368.1	395.4	437.8	518.1	633.2
65°	265.1	266.6	271.2	274.2	278.7	290.9	309.0	327.2	363.6	422.7	516.6
67.5°	218.1	224.2	230.3	230.3	234.8	240.9	259.1	274.2	301.5	336.3	399.9
70°	163.6	166.6	175.7	180.3	186.3	196.9	206.0	215.1	236.3	262.1	310.6
72.5°	136.3	136.3	139.4	140.9	140.9	148.5	162.1	171.2	181.8	200.0	233.3
75°	109.1	109.1	113.6	112.1	115.1	118.2	119.7	125.7	131.8	145.4	165.1
77.5°	86.4	87.9	87.9	89.4	89.4	90.9	92.4	95.4	98.5	106.0	115.1
80°	63.6	65.1	65.1	66.7	66.7	68.2	69.7	71.2	74.2	77.3	81.8
82.5°	43.9	45.4	45.4	47.0	45.4	47.0	48.5	48.5	50.0	53.0	54.5
85°	25.8	25.8	27.3	25.8	25.8	25.8	27.3	27.3	28.8	33.3	33.3
87.5°	7.6	9.1	7.6	9.1	9.1	9.1	9.1	10.6	10.6	12.1	13.6
90°	21.4	21.1	20.8	20.6	20.3	19.6	18.9	18.3	17.6	15.5	13.4
92.5°	24.6	24.5	24.3	24.2	23.6	22.5	21.4	20.2	19.1	17.6	16.2
95°	27.9	27.9	27.9	27.9	27.3	26.2	25.1	23.9	22.8	21.0	19.2
97.5°	29.8	29.6	29.5	29.4	28.7	27.4	26.1	24.8	23.5	31.8	40.1
100°	30.5	30.3	30.2	30.1	29.4	28.1	26.8	25.5	24.2	49.7	75.1
102.5°	30.9	30.6	30.3	30.1	32.8	38.2	43.5	48.9	54.3	82.7	111.1
105°	31.6	31.3	31.0	30.8	45.2	74.1	103.0	131.9	160.8	175.5	190.2
107.5°	119.2	140.5	161.9	172.6	185.2	210.3	235.4	260.5	285.6	283.2	280.7
110°	248.6	271.9	295.2	306.9	309.6	315.0	320.4	325.8	331.2	329.4	327.6

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	383.2	383.5	383.8	384.0	383.3	381.8	380.3	378.9	377.4	375.6	373.8
115°	430.5	429.8	429.1	428.8	428.0	426.4	424.7	423.1	421.5	420.0	418.6
117.5°	471.1	470.9	470.8	470.7	470.0	468.7	467.4	466.1	464.8	464.0	463.2
120°	512.5	512.5	512.5	512.5	511.9	510.6	509.3	508.0	506.7	506.2	505.7
122.5°	552.6	552.4	552.3	552.2	551.8	551.0	550.1	549.3	548.5	547.9	547.2
125°	589.7	589.4	589.1	588.9	588.7	588.4	588.1	587.7	587.4	586.8	586.1
127.5°	627.7	628.0	628.3	628.5	628.3	627.8	627.3	626.8	626.3	625.5	624.7
130°	663.0	663.3	663.6	663.8	663.5	662.8	662.1	661.5	660.8	660.2	659.5
132.5°	695.6	696.1	696.6	696.8	696.5	695.8	695.2	694.5	693.9	693.4	692.9
135°	728.7	729.2	729.7	729.9	729.7	729.2	728.7	728.2	727.7	727.0	726.4
137.5°	759.9	760.2	760.5	760.7	760.3	759.5	758.6	757.8	757.0	756.7	756.4
140°	787.8	788.1	788.4	788.6	788.3	787.6	787.0	786.3	785.7	785.2	784.7
142.5°	813.8	814.3	814.8	815.0	814.8	814.3	813.8	813.3	812.8	812.3	811.8
145°	839.3	839.3	839.3	839.3	839.1	838.8	838.5	838.1	837.8	837.5	837.1
147.5°	860.0	860.8	861.6	862.0	861.8	861.5	861.2	860.9	860.6	860.3	859.9
150°	881.4	881.9	882.4	882.6	882.4	882.1	881.8	881.4	881.1	880.8	880.5
152.5°	899.6	900.5	901.3	901.7	901.4	900.7	900.1	899.4	898.8	898.6	898.4
155°	916.2	917.1	918.1	918.6	918.2	917.4	916.5	915.7	914.9	914.7	914.6
157.5°	930.7	932.0	933.3	934.0	933.5	932.5	931.6	930.6	929.6	929.8	929.9
160°	943.6	944.8	945.9	946.5	946.0	945.0	944.1	943.1	942.1	942.3	942.4
162.5°	955.8	956.7	957.7	958.2	957.6	956.5	955.4	954.2	953.1	953.3	953.4
165°	965.7	966.8	967.9	968.5	967.8	966.5	965.2	963.9	962.6	962.8	963.0
167.5°	973.3	974.6	975.9	976.6	975.9	974.6	973.3	972.0	970.7	970.7	970.7
170°	979.9	981.2	982.5	983.2	982.5	981.2	979.9	978.6	977.3	977.3	977.3
172.5°	983.9	985.4	986.9	987.6	986.9	985.6	984.3	983.0	981.7	981.5	981.4
175°	987.3	988.6	989.9	990.5	989.9	988.8	987.7	986.5	985.4	985.2	985.1
177.5°	988.6	990.3	991.9	992.7	992.1	990.8	989.5	988.2	986.9	986.7	986.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1831.6	1824.0	1816.4	1816.4	1799.7	1784.6	1777.0	1780.0	1771.0	1758.8	1746.7
5°	1911.8	1881.5	1875.5	1858.8	1836.1	1804.3	1787.6	1772.5	1754.3	1730.1	1707.3
7.5°	1986.1	1946.7	1925.5	1908.8	1864.9	1820.9	1784.6	1760.3	1728.5	1692.2	1664.9
10°	2083.0	2010.3	1987.6	1949.7	1887.6	1825.5	1783.1	1743.7	1699.8	1657.3	1621.0
12.5°	2160.3	2077.0	2034.6	1996.7	1916.4	1837.6	1766.4	1717.9	1664.9	1617.9	1571.0
15°	2248.2	2154.2	2080.0	2034.6	1933.1	1837.6	1757.3	1689.1	1630.1	1572.5	1531.6
17.5°	2290.6	2172.4	2139.1	2073.9	1927.0	1831.6	1733.1	1660.4	1589.2	1522.5	1474.0
20°	2357.2	2219.4	2136.1	2092.1	1961.8	1820.9	1705.8	1622.5	1548.3	1477.1	1425.5
22.5°	2361.8	2211.8	2157.3	2073.9	1913.4	1789.1	1681.6	1580.1	1493.7	1427.1	1374.0
25°	2351.2	2198.2	2122.4	2055.8	1922.4	1771.0	1633.1	1533.1	1448.3	1371.0	1308.9
27.5°	2346.6	2158.8	2087.6	2020.9	1870.9	1717.9	1604.3	1490.7	1393.7	1325.6	1261.9
30°	2340.6	2116.4	2030.0	1952.7	1814.9	1677.0	1540.7	1442.2	1349.8	1263.5	1199.8
32.5°	2301.2	2058.8	1970.9	1889.1	1740.7	1602.8	1495.2	1390.7	1290.7	1210.4	1152.9
35°	2289.1	2005.8	1890.6	1802.8	1657.3	1534.6	1421.0	1334.7	1240.7	1160.4	1092.3
37.5°	2254.2	1951.2	1827.0	1714.9	1563.4	1446.8	1363.4	1277.1	1186.2	1099.8	1045.3
40°	2193.6	1887.6	1746.7	1631.6	1475.5	1357.4	1280.1	1216.5	1127.1	1049.8	983.2
42.5°	2104.2	1822.5	1671.0	1549.8	1377.1	1266.5	1202.9	1142.3	1066.5	986.2	931.7
45°	2001.2	1736.1	1595.2	1460.4	1284.7	1177.1	1110.4	1074.1	1004.4	936.2	872.6
47.5°	1860.3	1646.7	1507.4	1368.0	1189.2	1084.7	1031.7	995.3	946.8	872.6	821.1
50°	1683.1	1531.6	1399.8	1275.6	1095.3	995.3	942.3	915.0	874.1	821.1	771.1
52.5°	1486.1	1398.3	1289.2	1174.1	999.9	905.9	857.5	836.2	805.9	756.0	713.5
55°	1287.7	1249.8	1175.6	1062.0	899.9	822.6	780.2	752.9	730.2	693.8	657.5
57.5°	1110.4	1092.3	1040.8	952.9	816.5	736.3	699.9	681.7	663.5	636.3	599.9
60°	927.1	946.8	893.8	849.9	725.7	656.0	624.2	604.5	595.4	571.1	548.4
62.5°	768.1	786.2	756.0	722.6	634.8	572.6	552.9	534.8	528.7	507.5	484.8
65°	624.2	646.9	624.2	606.0	552.9	501.4	477.2	468.1	462.1	448.4	430.2
67.5°	496.9	519.6	509.0	486.3	469.6	427.2	413.6	404.5	401.5	390.9	375.7
70°	374.2	406.0	409.0	395.4	380.2	360.6	351.5	348.4	340.9	331.8	322.7
72.5°	269.7	306.0	307.5	307.5	298.4	298.4	289.4	284.8	284.8	275.7	265.1
75°	198.5	222.7	225.7	228.8	233.3	237.8	231.8	231.8	230.3	221.2	216.6
77.5°	131.8	153.0	160.6	171.2	177.2	177.2	180.3	183.3	180.3	175.7	172.7
80°	84.8	100.0	109.1	115.1	124.2	128.8	133.3	134.8	131.8	130.3	125.7
82.5°	56.1	60.6	65.1	72.7	83.3	90.9	90.9	89.4	92.4	90.9	89.4
85°	31.8	34.8	36.4	37.9	43.9	51.5	53.0	54.5	57.6	54.5	51.5
87.5°	12.1	13.6	13.6	13.6	16.7	18.2	22.7	28.8	27.3	24.2	24.2
90°	11.3	9.2	8.1	7.3	5.6	4.0	2.3	0.7	2.3	4.0	5.6
92.5°	14.7	13.2	12.5	13.0	14.0	14.9	15.9	16.9	15.9	14.9	14.0
95°	17.4	15.6	14.7	18.0	24.7	31.4	38.1	44.8	38.1	31.4	24.7
97.5°	48.4	56.7	60.9	63.2	67.8	72.3	76.9	81.5	76.9	72.3	67.8
100°	100.6	126.1	138.8	137.2	133.9	130.6	127.4	124.1	127.4	130.6	133.9
102.5°	139.5	167.9	182.1	181.0	178.9	176.8	174.7	172.6	174.7	176.8	178.9
105°	204.9	219.6	226.9	226.0	224.2	222.4	220.6	218.8	220.6	222.4	224.2
107.5°	278.3	275.8	274.6	273.9	272.4	270.9	269.5	268.0	269.5	270.9	272.4
110°	325.8	324.0	323.1	322.4	321.1	319.8	318.5	317.2	318.5	319.8	321.1

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	372.0	370.2	369.3	368.7	367.6	366.5	365.3	364.2	365.3	366.5	367.6
115°	417.1	415.6	414.9	414.4	413.4	412.5	411.5	410.5	411.5	412.5	413.4
117.5°	462.3	461.5	461.1	460.5	459.4	458.3	457.1	456.0	457.1	458.3	459.4
120°	505.2	504.7	504.4	503.7	502.2	500.7	499.3	497.8	499.3	500.7	502.2
122.5°	546.6	545.9	545.6	545.0	543.9	542.7	541.6	540.4	541.6	542.7	543.9
125°	585.5	584.8	584.5	583.8	582.5	581.2	579.9	578.6	579.9	581.2	582.5
127.5°	623.9	623.1	622.7	622.0	620.7	619.4	618.1	616.8	618.1	619.4	620.7
130°	658.9	658.2	657.9	657.2	655.9	654.6	653.3	652.0	653.3	654.6	655.9
132.5°	692.4	691.9	691.7	691.0	689.7	688.4	687.1	685.8	687.1	688.4	689.7
135°	725.7	725.0	724.7	724.2	723.2	722.3	721.3	720.3	721.3	722.3	723.2
137.5°	756.1	755.8	755.6	754.9	753.6	752.3	751.0	749.7	751.0	752.3	753.6
140°	784.2	783.7	783.5	783.0	782.0	781.1	780.1	779.1	780.1	781.1	782.0
142.5°	811.3	810.8	810.6	810.1	809.1	808.2	807.2	806.2	807.2	808.2	809.1
145°	836.8	836.5	836.3	835.7	834.6	833.5	832.3	831.2	832.3	833.5	834.6
147.5°	859.6	859.3	859.1	858.7	857.9	857.0	856.2	855.4	856.2	857.0	857.9
150°	880.2	879.9	879.7	879.5	879.0	878.5	878.0	877.5	878.0	878.5	879.0
152.5°	898.3	898.1	898.0	897.9	897.8	897.6	897.5	897.3	897.5	897.6	897.8
155°	914.4	914.3	914.2	914.4	914.7	915.0	915.3	915.6	915.3	915.0	914.7
157.5°	930.1	930.2	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3	930.3
160°	942.6	942.7	942.8	942.9	943.0	943.2	943.3	943.5	943.3	943.2	943.0
162.5°	953.6	953.7	953.8	954.0	954.5	955.0	955.5	956.0	955.5	955.0	954.5
165°	963.1	963.3	963.4	963.6	964.1	964.6	965.1	965.6	965.1	964.6	964.1
167.5°	970.7	970.7	970.7	971.0	971.7	972.4	973.0	973.7	973.0	972.4	971.7
170°	977.3	977.3	977.3	977.6	978.3	979.0	979.6	980.3	979.6	979.0	978.3
172.5°	981.2	981.1	981.0	981.4	982.2	983.1	983.9	984.7	983.9	983.1	982.2
175°	984.9	984.8	984.7	985.1	985.9	986.7	987.5	988.3	987.5	986.7	985.9
177.5°	986.4	986.2	986.1	986.5	987.3	988.2	989.0	989.8	989.0	988.2	987.3
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1746.7	1739.1	1736.1	1728.5	1710.4	1698.2	1684.6	1675.5	1677.0	1669.5	1674.0
5°	1692.2	1690.7	1680.1	1664.9	1639.2	1625.5	1601.3	1589.2	1583.1	1584.6	1575.5
7.5°	1646.7	1633.1	1625.5	1601.3	1577.0	1548.3	1528.6	1518.0	1508.9	1499.8	1493.7
10°	1595.2	1583.1	1571.0	1545.2	1511.9	1484.6	1457.4	1446.8	1433.1	1427.1	1422.5
12.5°	1540.7	1533.1	1518.0	1487.7	1449.8	1424.0	1392.2	1386.2	1368.0	1355.9	1352.8
15°	1490.7	1486.1	1458.9	1424.0	1386.2	1360.4	1333.1	1315.0	1284.7	1290.7	1280.1
17.5°	1437.7	1418.0	1401.3	1354.3	1336.2	1296.8	1265.0	1255.9	1234.7	1221.0	1207.4
20°	1378.6	1366.5	1345.3	1315.0	1271.0	1225.6	1201.3	1186.2	1174.1	1152.9	1146.8
22.5°	1322.5	1307.4	1289.2	1249.8	1211.9	1174.1	1140.7	1127.1	1112.0	1096.8	1087.7
25°	1278.6	1255.9	1236.2	1187.7	1149.8	1118.0	1096.8	1074.1	1052.9	1043.8	1040.8
27.5°	1210.4	1196.8	1177.1	1131.7	1096.8	1062.0	1042.3	1027.1	1004.4	993.8	984.7
30°	1166.5	1139.2	1116.5	1080.1	1045.3	1007.4	989.2	971.1	957.4	943.8	933.2
32.5°	1107.4	1086.2	1068.0	1031.7	996.8	962.0	942.3	915.0	907.4	896.8	884.7
35°	1049.8	1036.2	1016.5	977.1	939.3	915.0	893.8	868.1	859.0	851.4	840.8
37.5°	995.3	975.6	962.0	924.1	890.8	862.0	845.3	824.1	818.1	809.0	801.4
40°	948.3	928.7	915.0	877.1	842.3	812.0	801.4	780.2	771.1	760.5	756.0
42.5°	895.3	878.7	860.5	833.2	796.9	766.6	745.3	733.2	721.1	716.6	707.5
45°	839.3	824.1	810.5	780.2	742.3	721.1	702.9	686.3	677.2	669.6	663.5
47.5°	790.8	777.2	759.0	725.7	695.4	675.7	657.5	640.8	631.7	622.6	615.1
50°	734.7	727.2	707.5	675.7	646.9	624.2	607.5	592.3	586.3	575.7	563.6
52.5°	684.7	671.1	654.4	628.7	602.9	575.7	552.9	543.9	533.3	527.2	516.6
55°	625.7	616.6	598.4	575.7	548.4	525.7	509.0	496.9	483.3	477.2	463.6
57.5°	575.7	559.0	549.9	521.1	495.4	472.7	460.5	448.4	433.3	424.2	418.1
60°	521.1	506.0	492.4	468.1	449.9	425.7	407.5	396.9	386.3	374.2	368.1
62.5°	468.1	456.0	439.3	419.6	396.9	377.2	363.6	348.4	342.4	330.3	325.7
65°	410.5	401.5	387.8	365.1	346.9	330.3	316.6	304.5	298.4	293.9	290.9
67.5°	359.0	346.9	337.8	318.1	298.4	284.8	277.2	269.7	262.1	257.5	253.0
70°	306.0	296.9	287.8	269.7	256.0	243.9	237.8	231.8	227.2	222.7	218.1
72.5°	251.5	246.9	237.8	225.7	215.1	206.0	201.5	193.9	189.4	181.8	178.8
75°	207.5	200.0	195.4	184.8	175.7	168.2	162.1	153.0	146.9	143.9	142.4
77.5°	163.6	160.6	154.5	145.4	140.9	133.3	124.2	121.2	118.2	118.2	116.6
80°	122.7	118.2	113.6	106.0	101.5	95.4	95.4	95.4	93.9	95.4	93.9
82.5°	83.3	80.3	77.3	72.7	71.2	71.2	72.7	72.7	72.7	72.7	72.7
85°	48.5	48.5	48.5	50.0	48.5	48.5	50.0	51.5	50.0	50.0	48.5
87.5°	22.7	22.7	24.2	24.2	25.8	25.8	25.8	25.8	25.8	25.8	27.3
90°	7.3	8.1	9.2	11.3	13.4	15.5	17.6	18.3	18.9	19.6	20.3
92.5°	13.0	12.5	13.2	14.7	16.2	17.6	19.1	20.2	21.4	22.5	23.6
95°	18.0	14.7	15.6	17.4	19.2	21.0	22.8	23.9	25.1	26.2	27.3
97.5°	63.2	60.9	56.7	48.4	40.1	31.8	23.5	24.8	26.1	27.4	28.7
100°	137.2	138.8	126.1	100.6	75.1	49.7	24.2	25.5	26.8	28.1	29.4
102.5°	181.0	182.1	167.9	139.5	111.1	82.7	54.3	48.9	43.5	38.2	32.8
105°	226.0	226.9	219.6	204.9	190.2	175.5	160.8	131.9	103.0	74.1	45.2
107.5°	273.9	274.6	275.8	278.3	280.7	283.2	285.6	260.5	235.4	210.3	185.2
110°	322.4	323.1	324.0	325.8	327.6	329.4	331.2	325.8	320.4	315.0	309.6

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	368.7	369.3	370.2	372.0	373.8	375.6	377.4	378.9	380.3	381.8	383.3
115°	414.4	414.9	415.6	417.1	418.6	420.0	421.5	423.1	424.7	426.4	428.0
117.5°	460.5	461.1	461.5	462.3	463.2	464.0	464.8	466.1	467.4	468.7	470.0
120°	503.7	504.4	504.7	505.2	505.7	506.2	506.7	508.0	509.3	510.6	511.9
122.5°	545.0	545.6	545.9	546.6	547.2	547.9	548.5	549.3	550.1	551.0	551.8
125°	583.8	584.5	584.8	585.5	586.1	586.8	587.4	587.7	588.1	588.4	588.7
127.5°	622.0	622.7	623.1	623.9	624.7	625.5	626.3	626.8	627.3	627.8	628.3
130°	657.2	657.9	658.2	658.9	659.5	660.2	660.8	661.5	662.1	662.8	663.5
132.5°	691.0	691.7	691.9	692.4	692.9	693.4	693.9	694.5	695.2	695.8	696.5
135°	724.2	724.7	725.0	725.7	726.4	727.0	727.7	728.2	728.7	729.2	729.7
137.5°	754.9	755.6	755.8	756.1	756.4	756.7	757.0	757.8	758.6	759.5	760.3
140°	783.0	783.5	783.7	784.2	784.7	785.2	785.7	786.3	787.0	787.6	788.3
142.5°	810.1	810.6	810.8	811.3	811.8	812.3	812.8	813.3	813.8	814.3	814.8
145°	835.7	836.3	836.5	836.8	837.1	837.5	837.8	838.1	838.5	838.8	839.1
147.5°	858.7	859.1	859.3	859.6	859.9	860.3	860.6	860.9	861.2	861.5	861.8
150°	879.5	879.7	879.9	880.2	880.5	880.8	881.1	881.4	881.8	882.1	882.4
152.5°	897.9	898.0	898.1	898.3	898.4	898.6	898.8	899.4	900.1	900.7	901.4
155°	914.4	914.2	914.3	914.4	914.6	914.7	914.9	915.7	916.5	917.4	918.2
157.5°	930.3	930.3	930.2	930.1	929.9	929.8	929.6	930.6	931.6	932.5	933.5
160°	942.9	942.8	942.7	942.6	942.4	942.3	942.1	943.1	944.1	945.0	946.0
162.5°	954.0	953.8	953.7	953.6	953.4	953.3	953.1	954.2	955.4	956.5	957.6
165°	963.6	963.4	963.3	963.1	963.0	962.8	962.6	963.9	965.2	966.5	967.8
167.5°	971.0	970.7	970.7	970.7	970.7	970.7	970.7	972.0	973.3	974.6	975.9
170°	977.6	977.3	977.3	977.3	977.3	977.3	977.3	978.6	979.9	981.2	982.5
172.5°	981.4	981.0	981.1	981.2	981.4	981.5	981.7	983.0	984.3	985.6	986.9
175°	985.1	984.7	984.8	984.9	985.1	985.2	985.4	986.5	987.7	988.8	989.9
177.5°	986.5	986.1	986.2	986.4	986.5	986.7	986.9	988.2	989.5	990.8	992.1
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1672.5	1674.0	1669.5	1660.4	1658.8	1661.9	1671.0	1667.9	1660.4	1674.0	1661.9
5°	1580.1	1572.5	1569.5	1572.5	1563.4	1558.9	1568.0	1563.4	1568.0	1569.5	1574.0
7.5°	1490.7	1492.2	1483.1	1484.6	1472.5	1475.5	1475.5	1475.5	1480.1	1483.1	1489.2
10°	1413.4	1416.5	1405.9	1407.4	1398.3	1392.2	1396.8	1405.9	1405.9	1405.9	1408.9
12.5°	1351.3	1337.7	1330.1	1328.6	1318.0	1315.0	1324.0	1327.1	1334.7	1334.7	1339.2
15°	1274.1	1271.0	1265.0	1265.0	1239.2	1245.3	1248.3	1258.9	1274.1	1261.9	1265.0
17.5°	1204.4	1196.8	1189.2	1186.2	1183.2	1174.1	1186.2	1184.7	1193.8	1195.3	1199.8
20°	1142.3	1136.2	1121.0	1122.6	1125.6	1112.0	1119.5	1119.5	1128.6	1137.7	1148.3
22.5°	1081.7	1075.6	1068.0	1071.1	1062.0	1058.9	1058.9	1066.5	1077.1	1084.7	1083.2
25°	1034.7	1024.1	1019.5	1015.0	1010.5	1013.5	1008.9	1016.5	1024.1	1028.6	1024.1
27.5°	981.7	977.1	968.0	963.5	955.9	959.0	962.0	968.0	972.6	972.6	977.1
30°	930.2	924.1	921.1	916.5	916.5	910.5	912.0	918.0	922.6	927.1	933.2
32.5°	880.2	875.6	871.1	871.1	868.1	866.5	865.0	874.1	874.1	883.2	883.2
35°	839.3	831.7	831.7	824.1	827.2	825.6	822.6	828.7	830.2	836.2	834.7
37.5°	793.8	793.8	790.8	783.2	777.2	778.7	786.2	786.2	790.8	789.3	793.8
40°	748.4	745.3	745.3	740.8	739.3	737.8	739.3	740.8	748.4	746.9	748.4
42.5°	702.9	704.4	696.9	696.9	696.9	692.3	693.8	695.4	698.4	701.4	706.0
45°	659.0	656.0	654.4	651.4	648.4	649.9	648.4	654.4	652.9	656.0	660.5
47.5°	612.0	607.5	606.0	599.9	599.9	602.9	601.4	606.0	607.5	612.0	609.0
50°	566.6	560.5	556.0	557.5	548.4	551.4	551.4	556.0	560.5	562.0	565.1
52.5°	513.6	512.0	510.5	503.0	501.4	499.9	501.4	503.0	509.0	513.6	515.1
55°	462.1	460.5	451.4	448.4	443.9	443.9	446.9	448.4	459.0	460.5	466.6
57.5°	415.1	410.5	399.9	398.4	398.4	398.4	393.9	399.9	403.0	410.5	410.5
60°	363.6	363.6	354.5	354.5	356.0	354.5	354.5	356.0	356.0	362.1	365.1
62.5°	322.7	321.2	321.2	318.1	316.6	318.1	316.6	316.6	318.1	322.7	327.2
65°	286.3	284.8	283.3	281.8	278.7	278.7	280.3	283.3	283.3	286.3	287.8
67.5°	251.5	251.5	248.4	248.4	246.9	245.4	246.9	245.4	251.5	251.5	253.0
70°	216.6	215.1	210.6	209.1	204.5	206.0	206.0	210.6	212.1	215.1	218.1
72.5°	174.2	174.2	171.2	168.2	169.7	166.6	166.6	168.2	168.2	172.7	174.2
75°	143.9	140.9	139.4	140.9	139.4	142.4	139.4	139.4	142.4	142.4	142.4
77.5°	118.2	118.2	116.6	116.6	118.2	116.6	118.2	118.2	118.2	116.6	118.2
80°	97.0	95.4	95.4	95.4	93.9	93.9	93.9	93.9	93.9	93.9	93.9
82.5°	72.7	72.7	71.2	72.7	72.7	71.2	72.7	71.2	71.2	72.7	72.7
85°	48.5	51.5	48.5	48.5	50.0	50.0	51.5	50.0	51.5	48.5	50.0
87.5°	25.8	27.3	27.3	25.8	25.8	27.3	27.3	27.3	28.8	25.8	27.3
90°	20.6	20.8	21.1	21.4	21.7	22.0	21.7	21.4	21.1	20.8	20.6
92.5°	24.2	24.3	24.5	24.6	24.8	25.0	24.8	24.6	24.5	24.3	24.2
95°	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9	27.9
97.5°	29.4	29.5	29.6	29.8	29.9	30.1	29.9	29.8	29.6	29.5	29.4
100°	30.1	30.2	30.3	30.5	30.6	30.8	30.6	30.5	30.3	30.2	30.1
102.5°	30.1	30.3	30.6	30.9	31.3	31.6	31.3	30.9	30.6	30.3	30.1
105°	30.8	31.0	31.3	31.6	32.0	32.3	32.0	31.6	31.3	31.0	30.8
107.5°	172.6	161.9	140.5	119.2	97.8	76.4	97.8	119.2	140.5	161.9	172.6
110°	306.9	295.2	271.9	248.6	225.2	201.9	225.2	248.6	271.9	295.2	306.9

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	384.0	383.8	383.5	383.2	382.9	382.6	382.9	383.2	383.5	383.8	384.0
115°	428.8	429.1	429.8	430.5	431.1	431.8	431.1	430.5	429.8	429.1	428.8
117.5°	470.7	470.8	470.9	471.1	471.2	471.4	471.2	471.1	470.9	470.8	470.7
120°	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5	512.5
122.5°	552.2	552.3	552.4	552.6	552.7	552.9	552.7	552.6	552.4	552.3	552.2
125°	588.9	589.1	589.4	589.7	590.1	590.4	590.1	589.7	589.4	589.1	588.9
127.5°	628.5	628.3	628.0	627.7	627.4	627.1	627.4	627.7	628.0	628.3	628.5
130°	663.8	663.6	663.3	663.0	662.6	662.3	662.6	663.0	663.3	663.6	663.8
132.5°	696.8	696.6	696.1	695.6	695.1	694.6	695.1	695.6	696.1	696.6	696.8
135°	729.9	729.7	729.2	728.7	728.2	727.7	728.2	728.7	729.2	729.7	729.9
137.5°	760.7	760.5	760.2	759.9	759.5	759.2	759.5	759.9	760.2	760.5	760.7
140°	788.6	788.4	788.1	787.8	787.4	787.1	787.4	787.8	788.1	788.4	788.6
142.5°	815.0	814.8	814.3	813.8	813.3	812.8	813.3	813.8	814.3	814.8	815.0
145°	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3	839.3
147.5°	862.0	861.6	860.8	860.0	859.2	858.4	859.2	860.0	860.8	861.6	862.0
150°	882.6	882.4	881.9	881.4	880.9	880.4	880.9	881.4	881.9	882.4	882.6
152.5°	901.7	901.3	900.5	899.6	898.8	898.0	898.8	899.6	900.5	901.3	901.7
155°	918.6	918.1	917.1	916.2	915.2	914.2	915.2	916.2	917.1	918.1	918.6
157.5°	934.0	933.3	932.0	930.7	929.4	928.1	929.4	930.7	932.0	933.3	934.0
160°	946.5	945.9	944.8	943.6	942.5	941.3	942.5	943.6	944.8	945.9	946.5
162.5°	958.2	957.7	956.7	955.8	954.8	953.8	954.8	955.8	956.7	957.7	958.2
165°	968.5	967.9	966.8	965.7	964.5	963.4	964.5	965.7	966.8	967.9	968.5
167.5°	976.6	975.9	974.6	973.3	972.0	970.7	972.0	973.3	974.6	975.9	976.6
170°	983.2	982.5	981.2	979.9	978.6	977.3	978.6	979.9	981.2	982.5	983.2
172.5°	987.6	986.9	985.4	983.9	982.5	981.0	982.5	983.9	985.4	986.9	987.6
175°	990.5	989.9	988.6	987.3	986.0	984.7	986.0	987.3	988.6	989.9	990.5
177.5°	992.7	991.9	990.3	988.6	987.0	985.4	987.0	988.6	990.3	991.9	992.7
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4	1769.4
2.5°	1674.0	1680.1	1674.0	1661.9	1674.0	1681.6	1689.1	1701.3	1707.3	1707.3	1716.4
5°	1578.6	1590.7	1586.1	1583.1	1595.2	1602.8	1614.9	1630.1	1646.7	1657.3	1669.5
7.5°	1493.7	1501.3	1508.9	1508.9	1521.0	1537.7	1555.8	1574.0	1595.2	1610.4	1619.5
10°	1419.5	1425.5	1430.1	1436.2	1454.3	1472.5	1496.8	1519.5	1537.7	1554.3	1569.5
12.5°	1348.3	1357.4	1368.0	1372.5	1386.2	1408.9	1431.6	1458.9	1487.7	1504.3	1519.5
15°	1280.1	1284.7	1296.8	1310.4	1322.5	1346.8	1375.6	1404.3	1428.6	1454.3	1468.0
17.5°	1210.4	1211.9	1243.8	1236.2	1275.6	1298.3	1313.4	1340.7	1380.1	1401.3	1422.5
20°	1142.3	1157.4	1171.0	1178.6	1199.8	1225.6	1269.5	1290.7	1322.5	1342.2	1360.4
22.5°	1089.2	1112.0	1112.0	1130.1	1140.7	1165.0	1196.8	1237.7	1272.5	1286.2	1311.9
25°	1042.3	1052.9	1071.1	1077.1	1096.8	1118.0	1139.2	1183.2	1221.0	1239.2	1257.4
27.5°	981.7	995.3	1019.5	1019.5	1045.3	1068.0	1093.8	1122.6	1160.4	1186.2	1205.9
30°	934.7	948.3	959.0	975.6	986.2	1007.4	1052.9	1074.1	1107.4	1130.1	1154.4
32.5°	890.8	901.4	910.5	928.7	940.8	965.0	989.2	1027.1	1055.9	1077.1	1102.9
35°	842.3	852.9	865.0	878.7	896.8	919.6	942.3	974.1	1002.9	1022.6	1043.8
37.5°	796.9	804.4	822.6	831.7	846.8	868.1	896.8	930.2	955.9	971.1	992.3
40°	752.9	759.0	772.6	789.3	799.9	816.5	846.8	875.6	907.4	925.6	942.3
42.5°	706.0	713.5	725.7	742.3	759.0	777.2	793.8	827.2	855.9	871.1	889.3
45°	665.1	669.6	678.7	695.4	712.0	725.7	751.4	781.7	809.0	821.1	840.8
47.5°	616.6	621.1	634.8	642.3	660.5	678.7	704.4	734.7	759.0	771.1	789.3
50°	566.6	571.1	580.2	596.9	609.0	628.7	651.4	677.2	707.5	724.1	734.7
52.5°	518.1	527.2	534.8	548.4	563.6	583.2	604.5	628.7	654.4	671.1	683.2
55°	469.6	477.2	486.3	493.9	512.0	530.2	554.5	577.2	599.9	615.1	628.7
57.5°	415.1	425.7	434.8	449.9	463.6	478.7	506.0	524.2	551.4	562.0	574.2
60°	368.1	378.7	386.3	398.4	410.5	430.2	448.4	471.1	493.9	507.5	522.7
62.5°	328.7	333.3	337.8	349.9	362.1	380.2	398.4	421.2	445.4	453.0	465.1
65°	289.4	293.9	301.5	312.1	321.2	331.8	351.5	369.6	392.4	404.5	409.0
67.5°	256.0	260.6	262.1	269.7	277.2	289.4	300.0	318.1	339.3	346.9	356.0
70°	218.1	225.7	227.2	233.3	236.3	243.9	256.0	269.7	286.3	300.0	307.5
72.5°	174.2	184.8	187.9	196.9	201.5	209.1	218.1	228.8	239.4	245.4	251.5
75°	142.4	145.4	146.9	154.5	162.1	172.7	177.2	183.3	192.4	200.0	206.0
77.5°	118.2	119.7	121.2	121.2	122.7	128.8	137.9	145.4	151.5	154.5	159.1
80°	95.4	93.9	93.9	95.4	95.4	95.4	98.5	109.1	112.1	119.7	118.2
82.5°	74.2	71.2	72.7	71.2	71.2	71.2	71.2	72.7	72.7	77.3	80.3
85°	48.5	50.0	48.5	48.5	47.0	48.5	47.0	47.0	45.4	45.4	43.9
87.5°	25.8	27.3	25.8	25.8	24.2	25.8	24.2	24.2	22.7	22.7	19.7
90°	20.3	19.6	18.9	18.3	17.6	15.5	13.4	11.3	9.2	8.1	7.3
92.5°	23.6	22.5	21.4	20.2	19.1	17.6	16.2	14.7	13.2	12.5	13.0
95°	27.3	26.2	25.1	23.9	22.8	21.0	19.2	17.4	15.6	14.7	18.0
97.5°	28.7	27.4	26.1	24.8	23.5	31.8	40.1	48.4	56.7	60.9	63.2
100°	29.4	28.1	26.8	25.5	24.2	49.7	75.1	100.6	126.1	138.8	137.2
102.5°	32.8	38.2	43.5	48.9	54.3	82.7	111.1	139.5	167.9	182.1	181.0
105°	45.2	74.1	103.0	131.9	160.8	175.5	190.2	204.9	219.6	226.9	226.0
107.5°	185.2	210.3	235.4	260.5	285.6	283.2	280.7	278.3	275.8	274.6	273.9
110°	309.6	315.0	320.4	325.8	331.2	329.4	327.6	325.8	324.0	323.1	322.4

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	383.3	381.8	380.3	378.9	377.4	375.6	373.8	372.0	370.2	369.3	368.7
115°	428.0	426.4	424.7	423.1	421.5	420.0	418.6	417.1	415.6	414.9	414.4
117.5°	470.0	468.7	467.4	466.1	464.8	464.0	463.2	462.3	461.5	461.1	460.5
120°	511.9	510.6	509.3	508.0	506.7	506.2	505.7	505.2	504.7	504.4	503.7
122.5°	551.8	551.0	550.1	549.3	548.5	547.9	547.2	546.6	545.9	545.6	545.0
125°	588.7	588.4	588.1	587.7	587.4	586.8	586.1	585.5	584.8	584.5	583.8
127.5°	628.3	627.8	627.3	626.8	626.3	625.5	624.7	623.9	623.1	622.7	622.0
130°	663.5	662.8	662.1	661.5	660.8	660.2	659.5	658.9	658.2	657.9	657.2
132.5°	696.5	695.8	695.2	694.5	693.9	693.4	692.9	692.4	691.9	691.7	691.0
135°	729.7	729.2	728.7	728.2	727.7	727.0	726.4	725.7	725.0	724.7	724.2
137.5°	760.3	759.5	758.6	757.8	757.0	756.7	756.4	756.1	755.8	755.6	754.9
140°	788.3	787.6	787.0	786.3	785.7	785.2	784.7	784.2	783.7	783.5	783.0
142.5°	814.8	814.3	813.8	813.3	812.8	812.3	811.8	811.3	810.8	810.6	810.1
145°	839.1	838.8	838.5	838.1	837.8	837.5	837.1	836.8	836.5	836.3	835.7
147.5°	861.8	861.5	861.2	860.9	860.6	860.3	859.9	859.6	859.3	859.1	858.7
150°	882.4	882.1	881.8	881.4	881.1	880.8	880.5	880.2	879.9	879.7	879.5
152.5°	901.4	900.7	900.1	899.4	898.8	898.6	898.4	898.3	898.1	898.0	897.9
155°	918.2	917.4	916.5	915.7	914.9	914.7	914.6	914.4	914.3	914.2	914.4
157.5°	933.5	932.5	931.6	930.6	929.6	929.8	929.9	930.1	930.2	930.3	930.3
160°	946.0	945.0	944.1	943.1	942.1	942.3	942.4	942.6	942.7	942.8	942.9
162.5°	957.6	956.5	955.4	954.2	953.1	953.3	953.4	953.6	953.7	953.8	954.0
165°	967.8	966.5	965.2	963.9	962.6	962.8	963.0	963.1	963.3	963.4	963.6
167.5°	975.9	974.6	973.3	972.0	970.7	970.7	970.7	970.7	970.7	970.7	971.0
170°	982.5	981.2	979.9	978.6	977.3	977.3	977.3	977.3	977.3	977.3	977.6
172.5°	986.9	985.6	984.3	983.0	981.7	981.5	981.4	981.2	981.1	981.0	981.4
175°	989.9	988.8	987.7	986.5	985.4	985.2	985.1	984.9	984.8	984.7	985.1
177.5°	992.1	990.8	989.5	988.2	986.9	986.7	986.5	986.4	986.2	986.1	986.5
180°	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3	988.3

TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1769.4	1769.4	1769.4	1769.4
2.5°	1724.0	1734.6	1755.8	1774.0
5°	1687.6	1704.3	1736.1	1767.9
7.5°	1643.7	1669.5	1710.4	1754.3
10°	1601.3	1634.6	1684.6	1736.1
12.5°	1558.9	1593.7	1646.7	1713.4
15°	1508.9	1545.2	1608.9	1689.1
17.5°	1464.9	1513.4	1571.0	1651.3
20°	1418.0	1454.3	1528.6	1613.4
22.5°	1358.9	1419.5	1489.2	1578.6
25°	1311.9	1365.0	1434.6	1536.1
27.5°	1254.4	1316.5	1401.3	1490.7
30°	1207.4	1258.9	1337.7	1445.2
32.5°	1152.9	1213.5	1295.3	1401.3
35°	1104.4	1155.9	1233.2	1340.7
37.5°	1046.8	1102.9	1189.2	1284.7
40°	996.8	1051.4	1133.2	1222.5
42.5°	936.2	993.8	1075.6	1151.3
45°	887.7	940.8	1005.9	1075.6
47.5°	828.7	884.7	948.3	996.8
50°	775.6	827.2	877.1	918.0
52.5°	718.1	765.0	810.5	840.8
55°	665.1	701.4	737.8	759.0
57.5°	602.9	637.8	668.1	680.2
60°	548.4	577.2	596.9	610.5
62.5°	490.8	512.0	527.2	534.8
65°	434.8	449.9	457.5	465.1
67.5°	377.2	390.9	395.4	404.5
70°	316.6	331.8	334.8	339.3
72.5°	271.2	271.2	277.2	283.3
75°	216.6	219.7	222.7	222.7
77.5°	169.7	169.7	172.7	174.2
80°	124.2	125.7	125.7	124.2
82.5°	84.8	87.9	84.8	83.3
85°	47.0	53.0	50.0	50.0
87.5°	19.7	19.7	22.7	19.7
90°	5.6	4.0	2.3	0.7
92.5°	14.0	14.9	15.9	16.9
95°	24.7	31.4	38.1	44.8
97.5°	67.8	72.3	76.9	81.5
100°	133.9	130.6	127.4	124.1
102.5°	178.9	176.8	174.7	172.6
105°	224.2	222.4	220.6	218.8
107.5°	272.4	270.9	269.5	268.0
110°	321.1	319.8	318.5	317.2



TEST NUMBER: P1010863

CATALOG NUMBER: S123RDIP-B1165D805UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	367.6	366.5	365.3	364.2
115°	413.4	412.5	411.5	410.5
117.5°	459.4	458.3	457.1	456.0
120°	502.2	500.7	499.3	497.8
122.5°	543.9	542.7	541.6	540.4
125°	582.5	581.2	579.9	578.6
127.5°	620.7	619.4	618.1	616.8
130°	655.9	654.6	653.3	652.0
132.5°	689.7	688.4	687.1	685.8
135°	723.2	722.3	721.3	720.3
137.5°	753.6	752.3	751.0	749.7
140°	782.0	781.1	780.1	779.1
142.5°	809.1	808.2	807.2	806.2
145°	834.6	833.5	832.3	831.2
147.5°	857.9	857.0	856.2	855.4
150°	879.0	878.5	878.0	877.5
152.5°	897.8	897.6	897.5	897.3
155°	914.7	915.0	915.3	915.6
157.5°	930.3	930.3	930.3	930.3
160°	943.0	943.2	943.3	943.5
162.5°	954.5	955.0	955.5	956.0
165°	964.1	964.6	965.1	965.6
167.5°	971.7	972.4	973.0	973.7
170°	978.3	979.0	979.6	980.3
172.5°	982.2	983.1	983.9	984.7
175°	985.9	986.7	987.5	988.3
177.5°	987.3	988.2	989.0	989.8
180°	988.3	988.3	988.3	988.3

(END OF REPORT)