

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: P1031047

Luminaire Tested: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031047
REPORT IS A COMBINATION OF REPORTS P993861 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

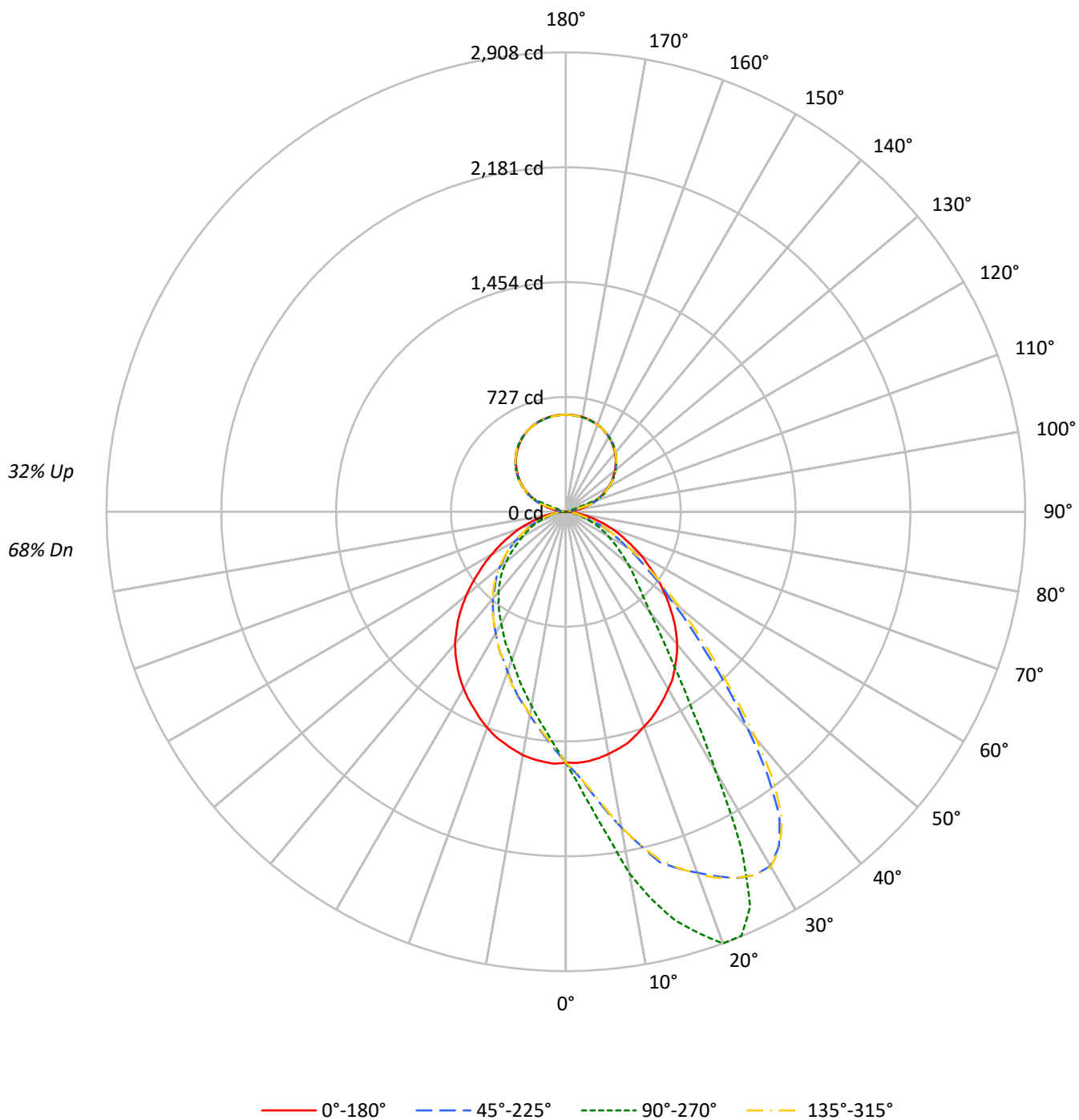
Lumens per Lamp: N/A
Luminaire Lumens: 5825.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73			68
1	103	98	95	91	97	93	90	87	83	81	78	74	72	70	65	64	63			59
2	94	87	81	76	89	82	77	73	74	70	66	66	63	60	59	56	54			51
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47			44
4	79	69	61	55	75	65	59	53	59	53	49	53	49	45	48	44	41			38
5	73	62	54	48	69	59	52	46	53	47	43	48	43	40	43	39	36			34
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	39	35	32			30
7	63	51	43	37	59	48	41	36	44	38	34	40	35	31	36	32	29			27
8	59	46	39	33	55	44	37	32	40	35	30	37	32	28	33	29	26			24
9	55	43	35	30	52	41	34	29	37	31	27	34	29	26	31	27	24			22
10	51	39	32	27	49	38	31	26	34	29	25	32	27	23	29	25	22			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17083	17083	17083	17083
5°	17097	19676	17140	14597
10°	16945	23751	17019	12750
15°	16771	26957	16771	11242
20°	16428	29076	16520	9973
25°	16176	27625	16143	9100
30°	15883	19140	15850	8246
35°	15531	12288	15460	7602
40°	15092	8677	15016	6962
45°	14328	6945	14308	6338
50°	13391	5809	13346	5609
55°	12336	4788	12236	4755
60°	11299	3958	11188	4044
65°	10085	3167	10150	3427
70°	8964	2201	9203	2771
75°	7596	1632	7908	2130
80°	6048	1083	6564	1597
85°	4303	512	4697	993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 30°

Vertical Angle: 45°

Luminance: 22807 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.7
10°-20°	487.9	8.4
20°-30°	768.4	13.2
30°-40°	799.0	13.7
40°-50°	683.6	11.7
50°-60°	521.2	8.9
60°-70°	333.9	5.7
70°-80°	160.0	2.7
80°-90°	43.3	0.7
90°-100°	21.7	0.4
100°-110°	104.7	1.8
110°-120°	256.5	4.4
120°-130°	325.6	5.6
130°-140°	347.9	6.0
140°-150°	325.3	5.6
150°-160°	262.4	4.5
160°-170°	169.3	2.9
170°-180°	58.4	1.0
0°-30°	1412.2	24.2
0°-40°	2211.2	38.0
0°-60°	3416.0	58.6
0°-90°	3953.2	67.9
90°-120°	382.9	6.6
90°-150°	1381.7	23.7
90°-180°	1872.0	32.1
0°-180°	5825.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1587	1587	1587	1587	1587	
5°	1586	1885	1590	1398	1586	150
15°	1515	2678	1515	1117	1515	426
25°	1378	2760	1375	909	1378	635
35°	1203	1197	1197	741	1203	753
45°	965	639	963	583	965	743
55°	681	401	675	398	681	610
65°	417	231	420	250	417	417
75°	200	98	208	128	200	216
85°	45	23	49	45	45	50
90°	0	14	0	14	0	4
95°	28	17	28	17	28	33
105°	136	20	136	20	136	144
115°	255	268	255	268	255	252
125°	359	367	359	367	359	321
135°	448	452	448	452	448	345
145°	516	521	516	521	516	323
155°	569	568	569	568	569	262
165°	600	598	600	598	600	169
175°	614	612	614	612	614	58
180°	614	614	614	614	614	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1591.2	1602.1	1610.2	1615.6	1629.2	1637.4	1644.2	1656.4	1656.4	1659.1	1664.6
5°	1585.8	1608.9	1625.2	1646.9	1675.4	1689.0	1708.0	1724.4	1747.5	1759.7	1771.9
7.5°	1573.5	1606.1	1640.1	1672.7	1714.8	1742.0	1761.0	1803.2	1833.1	1869.8	1898.3
10°	1557.2	1602.1	1645.5	1695.8	1752.9	1793.7	1822.2	1877.9	1935.0	1986.6	2030.1
12.5°	1536.8	1591.2	1653.7	1714.8	1795.0	1835.8	1882.0	1951.3	2032.8	2098.0	2156.5
15°	1515.1	1577.6	1648.3	1723.0	1823.5	1880.6	1947.2	2031.5	2122.5	2216.3	2296.4
17.5°	1481.1	1559.9	1638.7	1747.5	1865.7	1899.6	1956.7	2072.2	2185.0	2269.2	2367.1
20°	1447.2	1535.5	1634.7	1732.5	1860.2	1939.1	1992.0	2114.3	2235.3	2337.2	2430.9
22.5°	1415.9	1508.3	1611.6	1735.2	1854.8	1933.6	2000.2	2127.9	2267.9	2382.0	2497.5
25°	1377.9	1478.4	1592.5	1709.4	1854.8	1914.6	1988.0	2136.1	2284.2	2416.0	2558.7
27.5°	1337.1	1439.0	1551.8	1671.4	1804.5	1892.9	1964.9	2123.9	2304.6	2445.9	2592.6
30°	1296.3	1401.0	1509.7	1617.0	1766.5	1850.7	1933.6	2108.9	2315.4	2477.1	2589.9
32.5°	1256.9	1345.2	1452.6	1557.2	1705.3	1797.7	1891.5	2094.0	2319.5	2455.4	2509.8
35°	1202.6	1295.0	1381.9	1493.4	1642.8	1733.9	1843.9	2092.6	2301.9	2386.1	2358.9
37.5°	1152.3	1229.7	1312.6	1411.8	1565.4	1683.6	1797.7	2057.3	2243.4	2248.9	2095.3
40°	1096.6	1160.4	1229.7	1334.4	1500.1	1617.0	1740.7	2002.9	2137.4	2057.3	1786.9
42.5°	1032.7	1089.8	1144.1	1246.0	1426.8	1557.2	1690.4	1935.0	1983.9	1799.1	1517.8
45°	964.8	1011.0	1061.2	1168.6	1349.3	1478.4	1611.6	1830.3	1780.1	1519.2	1251.5
47.5°	894.1	933.5	982.4	1080.3	1266.4	1398.2	1524.6	1680.9	1553.1	1273.2	1049.0
50°	823.5	854.7	902.3	1002.8	1182.2	1301.8	1418.6	1520.5	1341.2	1092.5	866.9
52.5°	754.2	778.6	827.5	913.1	1087.1	1201.2	1285.5	1324.9	1142.8	902.3	752.8
55°	680.8	708.0	740.6	827.5	1000.1	1084.3	1140.1	1138.7	951.2	765.0	622.3
57.5°	610.1	634.6	663.1	750.1	890.0	947.1	994.7	971.6	793.6	626.4	534.0
60°	547.6	561.2	592.4	665.8	771.8	820.7	847.9	808.5	648.2	528.6	441.6
62.5°	479.7	493.3	519.1	588.4	653.6	679.4	702.5	652.2	535.4	430.7	377.8
65°	417.2	434.8	451.1	506.8	542.2	573.4	570.7	528.6	418.5	350.6	307.1
67.5°	362.8	369.6	383.2	417.2	433.5	456.6	457.9	410.4	337.0	285.4	259.5
70°	304.4	311.2	320.7	337.0	347.9	353.3	350.6	308.5	254.1	222.8	199.7
72.5°	254.1	252.7	259.5	259.5	270.4	269.0	260.9	228.3	193.0	167.1	153.5
75°	199.7	201.1	202.5	199.7	195.7	190.2	183.4	159.0	135.9	123.7	111.4
77.5°	156.3	153.5	154.9	145.4	140.0	134.5	125.0	112.8	93.8	91.0	85.6
80°	111.4	110.1	108.7	104.6	92.4	87.0	80.2	73.4	69.3	66.6	65.2
82.5°	74.7	74.7	72.0	63.9	57.1	53.0	51.6	48.9	44.8	44.8	43.5
85°	44.8	43.5	40.8	32.6	28.5	28.5	28.5	28.5	25.8	25.8	24.5
87.5°	17.7	16.3	12.2	12.2	10.9	10.9	10.9	9.5	9.5	8.2	8.2
90°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.6	10.9
92.5°	10.5	9.9	9.3	8.7	8.1	7.8	8.3	9.2	10.1	11.0	11.9
95°	27.8	23.6	19.5	15.3	11.2	9.1	9.7	10.8	11.9	13.0	14.1
97.5°	50.6	47.8	45.0	42.1	39.3	37.9	35.3	30.1	25.0	19.8	14.6
100°	77.1	79.1	81.1	83.2	85.2	86.2	78.3	62.5	46.7	30.9	15.1
102.5°	107.2	108.5	109.8	111.1	112.4	113.1	104.3	86.7	69.0	51.4	33.8
105°	135.9	137.0	138.2	139.3	140.4	141.0	136.4	127.3	118.2	109.0	99.9
107.5°	166.5	167.4	168.3	169.2	170.1	170.6	171.4	172.9	174.4	175.9	177.4
110°	197.1	197.9	198.7	199.5	200.3	200.7	201.3	202.4	203.5	204.6	205.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	226.3	227.0	227.7	228.4	229.1	229.4	230.0	231.1	232.2	233.4	234.5
115°	255.0	255.6	256.2	256.8	257.4	257.7	258.2	259.1	260.0	260.9	261.8
117.5°	283.3	284.0	284.7	285.4	286.1	286.5	286.7	287.2	287.7	288.2	288.7
120°	309.3	310.2	311.1	312.0	312.9	313.4	313.5	313.8	314.1	314.4	314.7
122.5°	335.7	336.4	337.1	337.8	338.5	338.9	339.1	339.5	339.9	340.3	340.7
125°	359.4	360.2	361.0	361.9	362.7	363.1	363.3	363.7	364.1	364.5	364.9
127.5°	383.2	384.0	384.8	385.6	386.4	386.8	387.1	387.6	388.1	388.6	389.1
130°	405.1	405.9	406.7	407.5	408.3	408.7	408.9	409.3	409.7	410.1	410.5
132.5°	426.0	426.8	427.6	428.5	429.3	429.7	429.9	430.2	430.5	430.8	431.1
135°	447.5	448.1	448.7	449.3	449.9	450.2	450.4	450.8	451.2	451.6	452.0
137.5°	465.7	466.5	467.3	468.2	469.0	469.4	469.5	469.7	469.9	470.1	470.3
140°	484.0	484.6	485.2	485.8	486.4	486.7	486.9	487.2	487.5	487.8	488.1
142.5°	500.9	501.5	502.1	502.7	503.3	503.6	503.8	504.1	504.4	504.7	505.0
145°	516.4	517.1	517.8	518.5	519.2	519.6	519.7	519.9	520.1	520.3	520.5
147.5°	531.4	531.9	532.4	532.9	533.4	533.7	533.8	534.0	534.2	534.4	534.6
150°	545.1	545.4	545.7	546.0	546.3	546.5	546.6	546.8	547.0	547.2	547.4
152.5°	557.4	557.5	557.6	557.7	557.8	557.9	557.9	558.0	558.1	558.2	558.3
155°	568.8	568.6	568.4	568.2	568.0	567.9	568.0	568.1	568.2	568.3	568.4
157.5°	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.8	577.7	577.6	577.5
160°	586.2	586.1	586.0	585.9	585.8	585.7	585.6	585.5	585.4	585.3	585.2
162.5°	593.9	593.6	593.3	593.0	592.7	592.5	592.5	592.4	592.3	592.2	592.1
165°	599.8	599.5	599.2	598.9	598.6	598.5	598.4	598.3	598.2	598.1	598.0
167.5°	604.9	604.5	604.1	603.6	603.2	603.0	603.0	603.0	603.0	603.0	603.0
170°	609.0	608.6	608.2	607.7	607.3	607.1	607.1	607.1	607.1	607.1	607.1
172.5°	611.7	611.2	610.7	610.2	609.7	609.4	609.5	609.6	609.7	609.8	609.9
175°	614.0	613.5	613.0	612.5	612.0	611.7	611.8	611.9	612.0	612.1	612.2
177.5°	614.9	614.4	613.9	613.4	612.9	612.6	612.7	612.8	612.9	613.0	613.1
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1675.4	1675.4	1687.7	1699.9	1693.1	1697.2	1712.1	1706.7	1717.6	1716.2	1720.3
5°	1801.8	1816.8	1829.0	1854.8	1858.9	1854.8	1880.6	1887.4	1899.6	1884.7	1891.5
7.5°	1944.5	1975.7	2005.6	2043.7	2055.9	2058.6	2072.2	2091.2	2107.5	2077.7	2092.6
10°	2083.1	2130.6	2191.8	2225.8	2255.7	2266.5	2277.4	2289.6	2308.7	2326.3	2312.7
12.5°	2232.6	2301.9	2360.3	2421.4	2458.1	2454.0	2485.3	2493.5	2508.4	2512.5	2517.9
15°	2354.9	2452.7	2489.4	2580.4	2588.6	2615.7	2651.1	2682.3	2686.4	2678.3	2678.3
17.5°	2471.7	2556.0	2621.2	2694.6	2709.5	2732.6	2777.4	2792.4	2797.8	2796.5	2796.5
20°	2566.8	2622.5	2732.6	2793.8	2818.2	2848.1	2879.4	2898.4	2902.5	2907.9	2899.7
22.5°	2629.3	2713.6	2803.3	2853.5	2873.9	2884.8	2905.2	2910.6	2903.8	2905.2	2906.5
25°	2678.3	2761.1	2815.5	2829.1	2827.7	2814.1	2799.2	2773.4	2770.7	2759.8	2738.0
27.5°	2691.8	2723.1	2716.3	2660.6	2604.9	2599.4	2509.8	2460.8	2405.1	2413.3	2382.0
30°	2618.5	2577.7	2481.2	2339.9	2281.5	2186.4	2085.8	1981.2	1940.4	1895.6	1978.5
32.5°	2439.1	2293.7	2122.5	1939.1	1841.2	1757.0	1649.6	1573.5	1530.0	1493.4	1564.0
35°	2168.7	1941.8	1714.8	1540.9	1460.7	1384.6	1284.1	1246.0	1191.7	1197.1	1203.9
37.5°	1820.8	1570.8	1399.6	1228.4	1175.4	1144.1	1070.8	1012.3	993.3	987.9	987.9
40°	1494.7	1289.5	1137.3	1002.8	962.1	936.2	877.8	850.6	830.2	824.8	831.6
42.5°	1236.5	1061.2	943.0	853.3	824.8	792.2	767.7	733.8	729.7	720.2	732.4
45°	1038.1	886.0	797.6	732.4	708.0	695.7	668.5	648.2	640.0	638.7	648.2
47.5°	880.5	762.3	684.9	644.1	625.1	612.8	589.7	581.6	573.4	576.1	572.1
50°	739.2	650.9	600.6	563.9	551.7	539.5	524.5	516.4	512.3	512.3	510.9
52.5°	634.6	561.2	528.6	494.6	489.2	482.4	466.1	460.6	453.8	452.5	457.9
55°	543.5	493.3	460.6	440.3	434.8	421.2	414.4	407.6	403.6	400.9	402.2
57.5°	464.7	426.7	404.9	387.3	377.8	372.3	360.1	358.7	356.0	356.0	354.7
60°	399.5	372.3	346.5	335.6	328.8	322.0	320.7	312.5	308.5	311.2	309.8
62.5°	338.3	316.6	301.7	289.4	285.4	279.9	275.8	273.1	269.0	270.4	270.4
65°	282.6	265.0	254.1	243.2	241.9	236.4	235.1	232.4	232.4	231.0	233.7
67.5°	232.4	220.1	210.6	203.8	199.7	201.1	195.7	191.6	191.6	190.2	194.3
70°	184.8	178.0	168.5	160.3	154.9	154.9	148.1	146.8	146.8	146.8	145.4
72.5°	142.7	130.4	126.4	123.7	123.7	123.7	120.9	120.9	119.6	120.9	119.6
75°	106.0	104.6	101.9	100.6	100.6	99.2	97.8	97.8	97.8	97.8	97.8
77.5°	82.9	82.9	80.2	78.8	78.8	78.8	77.5	77.5	76.1	76.1	76.1
80°	61.1	61.1	58.4	58.4	58.4	57.1	57.1	57.1	58.4	57.1	57.1
82.5°	42.1	42.1	40.8	42.1	40.8	39.4	39.4	39.4	38.0	39.4	39.4
85°	24.5	24.5	23.1	21.7	23.1	23.1	21.7	23.1	21.7	23.1	21.7
87.5°	9.5	8.2	8.2	8.2	6.8	8.2	6.8	6.8	8.2	6.8	8.2
90°	11.3	11.7	12.2	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	12.6	13.3	14.0	14.7	15.1	15.1	15.2	15.3	15.4	15.5	15.4
95°	14.8	15.5	16.2	16.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	15.4	16.2	17.0	17.8	18.2	18.3	18.4	18.5	18.6	18.7	18.6
100°	15.9	16.7	17.5	18.3	18.7	18.8	18.9	19.0	19.1	19.2	19.1
102.5°	30.4	27.1	23.7	20.4	18.7	18.8	19.0	19.2	19.4	19.6	19.4
105°	82.0	64.0	46.1	28.2	19.2	19.3	19.5	19.7	19.9	20.1	19.9
107.5°	161.8	146.2	130.6	115.0	107.2	100.6	87.3	74.0	60.7	47.4	60.7
110°	202.4	199.0	195.7	192.4	190.7	183.4	168.9	154.4	139.9	125.4	139.9

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	235.4	236.3	237.2	238.1	238.6	238.5	238.3	238.1	237.9	237.7	237.9
115°	262.8	263.8	264.9	265.9	266.4	266.6	267.0	267.4	267.8	268.2	267.8
117.5°	289.5	290.3	291.2	292.0	292.4	292.4	292.5	292.6	292.7	292.8	292.7
120°	315.5	316.3	317.2	318.0	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	341.2	341.7	342.2	342.7	343.0	343.1	343.2	343.3	343.4	343.5	343.4
125°	365.1	365.3	365.5	365.7	365.8	365.9	366.1	366.3	366.5	366.7	366.5
127.5°	389.4	389.7	390.0	390.3	390.5	390.4	390.2	390.0	389.8	389.6	389.8
130°	410.9	411.3	411.8	412.2	412.4	412.3	412.1	411.8	411.6	411.4	411.6
132.5°	431.5	431.9	432.3	432.7	432.9	432.7	432.4	432.1	431.8	431.5	431.8
135°	452.3	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	452.3
137.5°	470.8	471.3	471.8	472.3	472.6	472.5	472.3	472.1	471.9	471.7	471.9
140°	488.5	488.9	489.3	489.7	489.9	489.8	489.6	489.4	489.2	489.0	489.2
142.5°	505.3	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	505.3
145°	520.7	520.9	521.1	521.3	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	534.8	535.0	535.2	535.4	535.5	535.2	534.7	534.2	533.7	533.2	533.7
150°	547.6	547.8	548.0	548.2	548.3	548.1	547.8	547.5	547.2	546.9	547.2
152.5°	558.7	559.1	559.6	560.0	560.2	559.9	559.4	558.9	558.4	557.9	558.4
155°	568.9	569.4	569.9	570.4	570.6	570.3	569.7	569.1	568.5	567.9	568.5
157.5°	578.1	578.7	579.3	579.9	580.2	579.8	579.0	578.2	577.4	576.6	577.4
160°	585.8	586.4	587.1	587.7	588.0	587.6	586.9	586.2	585.5	584.8	585.5
162.5°	592.8	593.5	594.2	594.9	595.3	595.0	594.4	593.7	593.1	592.5	593.1
165°	598.8	599.6	600.5	601.3	601.7	601.3	600.6	599.9	599.2	598.5	599.2
167.5°	603.8	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.8
170°	607.9	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.9
172.5°	610.7	611.5	612.3	613.1	613.5	613.0	612.1	611.2	610.3	609.4	610.3
175°	612.9	613.6	614.3	615.0	615.3	614.9	614.1	613.3	612.5	611.7	612.5
177.5°	613.9	614.7	615.5	616.3	616.7	616.2	615.2	614.2	613.2	612.2	613.2
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4FO-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1713.5	1705.3	1699.9	1695.8	1691.7	1704.0	1687.7	1670.0	1657.8	1649.6	1646.9
5°	1892.9	1875.2	1860.2	1848.0	1850.7	1850.7	1822.2	1790.9	1763.8	1748.8	1732.5
7.5°	2100.8	2081.7	2051.8	2045.0	2039.6	2005.6	1977.1	1920.0	1886.1	1852.1	1822.2
10°	2307.3	2282.8	2254.3	2244.8	2231.2	2189.1	2145.6	2072.2	2030.1	1967.6	1928.2
12.5°	2500.2	2470.4	2441.8	2435.0	2414.6	2378.0	2303.2	2227.1	2155.1	2088.5	2019.2
15°	2661.9	2653.8	2610.3	2583.1	2538.3	2488.0	2471.7	2368.4	2277.4	2208.1	2083.1
17.5°	2797.8	2759.8	2719.0	2701.4	2683.7	2625.3	2566.8	2460.8	2363.0	2261.1	2180.9
20°	2906.5	2864.4	2835.9	2810.1	2801.9	2735.3	2642.9	2549.2	2441.8	2327.7	2223.0
22.5°	2912.0	2906.5	2887.5	2872.6	2856.3	2812.8	2739.4	2622.5	2508.4	2383.4	2246.1
25°	2799.2	2791.0	2845.4	2831.8	2842.7	2826.4	2787.0	2689.1	2556.0	2409.2	2270.6
27.5°	2459.5	2542.4	2628.0	2657.9	2678.3	2736.7	2755.7	2701.4	2594.0	2437.7	2282.8
30°	1997.5	2107.5	2246.1	2320.9	2378.0	2486.7	2628.0	2645.6	2595.4	2470.4	2280.1
32.5°	1568.1	1668.6	1780.1	1868.4	1944.5	2167.3	2357.6	2494.8	2519.3	2454.0	2286.9
35°	1263.7	1307.2	1413.2	1497.4	1600.7	1790.9	2015.1	2236.6	2386.1	2394.3	2266.5
37.5°	1042.2	1065.3	1157.7	1205.3	1266.4	1433.6	1642.8	1932.3	2164.6	2274.7	2209.5
40°	862.9	915.9	968.8	996.0	1039.5	1155.0	1356.1	1583.0	1871.1	2074.9	2121.1
42.5°	748.7	771.8	805.8	843.8	871.0	971.6	1106.1	1314.0	1573.5	1857.5	1985.3
45°	660.4	668.5	703.9	728.3	756.9	827.5	922.6	1096.6	1324.9	1604.8	1822.2
47.5°	587.0	603.3	622.3	637.3	656.3	710.7	792.2	918.6	1119.7	1369.7	1603.4
50°	521.8	531.3	555.8	562.6	576.1	614.2	676.7	773.2	939.0	1138.7	1380.6
52.5°	460.6	478.3	487.8	497.3	509.6	540.8	581.6	660.4	785.4	972.9	1178.1
55°	413.1	418.5	432.1	440.3	449.8	471.5	506.8	565.3	663.1	812.6	1006.9
57.5°	366.9	366.9	380.5	387.3	396.8	413.1	444.3	489.2	559.8	671.3	849.3
60°	318.0	319.3	330.2	338.3	341.1	357.4	383.2	418.5	472.9	554.4	699.8
62.5°	274.5	281.3	286.7	289.4	298.9	308.5	330.2	354.7	392.7	464.7	568.0
65°	237.8	239.2	243.2	245.9	250.0	260.9	277.2	293.5	326.1	379.1	463.4
67.5°	195.7	201.1	206.5	206.5	210.6	216.1	232.4	245.9	270.4	301.7	358.7
70°	146.8	149.5	157.6	161.7	167.1	176.6	184.8	193.0	212.0	235.1	278.6
72.5°	122.3	122.3	125.0	126.4	126.4	133.2	145.4	153.5	163.1	179.4	209.3
75°	97.8	97.8	101.9	100.6	103.3	106.0	107.3	112.8	118.2	130.4	148.1
77.5°	77.5	78.8	78.8	80.2	80.2	81.5	82.9	85.6	88.3	95.1	103.3
80°	57.1	58.4	58.4	59.8	59.8	61.1	62.5	63.9	66.6	69.3	73.4
82.5°	39.4	40.8	40.8	42.1	40.8	42.1	43.5	43.5	44.8	47.6	48.9
85°	23.1	23.1	24.5	23.1	23.1	23.1	24.5	24.5	25.8	29.9	29.9
87.5°	6.8	8.2	6.8	8.2	8.2	8.2	8.2	9.5	9.5	10.9	12.2
90°	13.3	13.1	12.9	12.8	12.6	12.2	11.7	11.3	10.9	9.6	8.3
92.5°	15.3	15.2	15.1	15.1	14.7	14.0	13.3	12.6	11.9	11.0	10.1
95°	17.3	17.3	17.3	17.3	16.9	16.2	15.5	14.8	14.1	13.0	11.9
97.5°	18.5	18.4	18.3	18.2	17.8	17.0	16.2	15.4	14.6	19.8	25.0
100°	19.0	18.9	18.8	18.7	18.3	17.5	16.7	15.9	15.1	30.9	46.7
102.5°	19.2	19.0	18.8	18.7	20.4	23.7	27.1	30.4	33.8	51.4	69.0
105°	19.7	19.5	19.3	19.2	28.2	46.1	64.0	82.0	99.9	109.0	118.2
107.5°	74.0	87.3	100.6	107.2	115.0	130.6	146.2	161.8	177.4	175.9	174.4
110°	154.4	168.9	183.4	190.7	192.4	195.7	199.0	202.4	205.7	204.6	203.5

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	238.1	238.3	238.5	238.6	238.1	237.2	236.3	235.4	234.5	233.4	232.2
115°	267.4	267.0	266.6	266.4	265.9	264.9	263.8	262.8	261.8	260.9	260.0
117.5°	292.6	292.5	292.4	292.4	292.0	291.2	290.3	289.5	288.7	288.2	287.7
120°	318.4	318.4	318.4	318.4	318.0	317.2	316.3	315.5	314.7	314.4	314.1
122.5°	343.3	343.2	343.1	343.0	342.7	342.2	341.7	341.2	340.7	340.3	339.9
125°	366.3	366.1	365.9	365.8	365.7	365.5	365.3	365.1	364.9	364.5	364.1
127.5°	390.0	390.2	390.4	390.5	390.3	390.0	389.7	389.4	389.1	388.6	388.1
130°	411.8	412.1	412.3	412.4	412.2	411.8	411.3	410.9	410.5	410.1	409.7
132.5°	432.1	432.4	432.7	432.9	432.7	432.3	431.9	431.5	431.1	430.8	430.5
135°	452.6	452.9	453.2	453.4	453.2	452.9	452.6	452.3	452.0	451.6	451.2
137.5°	472.1	472.3	472.5	472.6	472.3	471.8	471.3	470.8	470.3	470.1	469.9
140°	489.4	489.6	489.8	489.9	489.7	489.3	488.9	488.5	488.1	487.8	487.5
142.5°	505.6	505.9	506.2	506.3	506.2	505.9	505.6	505.3	505.0	504.7	504.4
145°	521.4	521.4	521.4	521.4	521.3	521.1	520.9	520.7	520.5	520.3	520.1
147.5°	534.2	534.7	535.2	535.5	535.4	535.2	535.0	534.8	534.6	534.4	534.2
150°	547.5	547.8	548.1	548.3	548.2	548.0	547.8	547.6	547.4	547.2	547.0
152.5°	558.9	559.4	559.9	560.2	560.0	559.6	559.1	558.7	558.3	558.2	558.1
155°	569.1	569.7	570.3	570.6	570.4	569.9	569.4	568.9	568.4	568.3	568.2
157.5°	578.2	579.0	579.8	580.2	579.9	579.3	578.7	578.1	577.5	577.6	577.7
160°	586.2	586.9	587.6	588.0	587.7	587.1	586.4	585.8	585.2	585.3	585.4
162.5°	593.7	594.4	595.0	595.3	594.9	594.2	593.5	592.8	592.1	592.2	592.3
165°	599.9	600.6	601.3	601.7	601.3	600.5	599.6	598.8	598.0	598.1	598.2
167.5°	604.6	605.5	606.3	606.7	606.3	605.5	604.6	603.8	603.0	603.0	603.0
170°	608.7	609.6	610.4	610.8	610.4	609.6	608.7	607.9	607.1	607.1	607.1
172.5°	611.2	612.1	613.0	613.5	613.1	612.3	611.5	610.7	609.9	609.8	609.7
175°	613.3	614.1	614.9	615.3	615.0	614.3	613.6	612.9	612.2	612.1	612.0
177.5°	614.2	615.2	616.2	616.7	616.3	615.5	614.7	613.9	613.1	613.0	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1642.8	1636.0	1629.2	1629.2	1614.3	1600.7	1593.9	1596.6	1588.5	1577.6	1566.7
5°	1714.8	1687.7	1682.2	1667.3	1646.9	1618.4	1603.4	1589.8	1573.5	1551.8	1531.4
7.5°	1781.4	1746.1	1727.1	1712.1	1672.7	1633.3	1600.7	1579.0	1550.4	1517.8	1493.4
10°	1868.4	1803.2	1782.8	1748.8	1693.1	1637.4	1599.3	1564.0	1524.6	1486.6	1453.9
12.5°	1937.7	1863.0	1824.9	1790.9	1718.9	1648.3	1584.4	1540.9	1493.4	1451.2	1409.1
15°	2016.5	1932.3	1865.7	1824.9	1733.9	1648.3	1576.2	1515.1	1462.1	1410.5	1373.8
17.5°	2054.6	1948.6	1918.7	1860.2	1728.4	1642.8	1554.5	1489.3	1425.4	1365.6	1322.1
20°	2114.3	1990.7	1916.0	1876.5	1759.7	1633.3	1530.0	1455.3	1388.7	1324.9	1278.7
22.5°	2118.4	1983.9	1935.0	1860.2	1716.2	1604.8	1508.3	1417.3	1339.8	1280.0	1232.5
25°	2108.9	1971.7	1903.7	1843.9	1724.4	1588.5	1464.8	1375.1	1299.0	1229.7	1174.0
27.5°	2104.8	1936.3	1872.5	1812.7	1678.2	1540.9	1439.0	1337.1	1250.1	1189.0	1131.9
30°	2099.4	1898.3	1820.8	1751.5	1627.9	1504.2	1381.9	1293.6	1210.7	1133.3	1076.2
32.5°	2064.1	1846.6	1767.8	1694.5	1561.3	1437.6	1341.2	1247.4	1157.7	1085.7	1034.1
35°	2053.2	1799.1	1695.8	1617.0	1486.6	1376.5	1274.6	1197.1	1112.9	1040.9	979.7
37.5°	2021.9	1750.2	1638.7	1538.2	1402.3	1297.7	1222.9	1145.5	1064.0	986.5	937.6
40°	1967.6	1693.1	1566.7	1463.5	1323.5	1217.5	1148.2	1091.1	1011.0	941.7	881.9
42.5°	1887.4	1634.7	1498.8	1390.1	1235.2	1136.0	1078.9	1024.6	956.6	884.6	835.7
45°	1795.0	1557.2	1430.8	1309.9	1152.3	1055.8	996.0	963.4	900.9	839.8	782.7
47.5°	1668.6	1477.0	1352.0	1227.0	1066.7	972.9	925.4	892.8	849.3	782.7	736.5
50°	1509.7	1373.8	1255.6	1144.1	982.4	892.8	845.2	820.7	784.0	736.5	691.6
52.5°	1333.0	1254.2	1156.4	1053.1	896.8	812.6	769.1	750.1	722.9	678.1	640.0
55°	1155.0	1121.0	1054.5	952.5	807.1	737.8	699.8	675.3	655.0	622.3	589.7
57.5°	996.0	979.7	933.5	854.7	732.4	660.4	627.8	611.5	595.2	570.7	538.1
60°	831.6	849.3	801.7	762.3	650.9	588.4	559.8	542.2	534.0	512.3	491.9
62.5°	688.9	705.2	678.1	648.2	569.3	513.6	496.0	479.7	474.2	455.2	434.8
65°	559.8	580.2	559.8	543.5	496.0	449.8	428.0	419.9	414.4	402.2	385.9
67.5°	445.7	466.1	456.6	436.2	421.2	383.2	371.0	362.8	360.1	350.6	337.0
70°	335.6	364.2	366.9	354.7	341.1	323.4	315.2	312.5	305.7	297.6	289.4
72.5°	241.9	274.5	275.8	275.8	267.7	267.7	259.5	255.5	255.5	247.3	237.8
75°	178.0	199.7	202.5	205.2	209.3	213.3	207.9	207.9	206.5	198.4	194.3
77.5°	118.2	137.2	144.0	153.5	159.0	159.0	161.7	164.4	161.7	157.6	154.9
80°	76.1	89.7	97.8	103.3	111.4	115.5	119.6	120.9	118.2	116.9	112.8
82.5°	50.3	54.4	58.4	65.2	74.7	81.5	81.5	80.2	82.9	81.5	80.2
85°	28.5	31.3	32.6	34.0	39.4	46.2	47.6	48.9	51.6	48.9	46.2
87.5°	10.9	12.2	12.2	12.2	14.9	16.3	20.4	25.8	24.5	21.7	21.7
90°	7.0	5.7	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	9.2	8.3	7.8	8.1	8.7	9.3	9.9	10.5	9.9	9.3	8.7
95°	10.8	9.7	9.1	11.2	15.3	19.5	23.6	27.8	23.6	19.5	15.3
97.5°	30.1	35.3	37.9	39.3	42.1	45.0	47.8	50.6	47.8	45.0	42.1
100°	62.5	78.3	86.2	85.2	83.2	81.1	79.1	77.1	79.1	81.1	83.2
102.5°	86.7	104.3	113.1	112.4	111.1	109.8	108.5	107.2	108.5	109.8	111.1
105°	127.3	136.4	141.0	140.4	139.3	138.2	137.0	135.9	137.0	138.2	139.3
107.5°	172.9	171.4	170.6	170.1	169.2	168.3	167.4	166.5	167.4	168.3	169.2
110°	202.4	201.3	200.7	200.3	199.5	198.7	197.9	197.1	197.9	198.7	199.5

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	231.1	230.0	229.4	229.1	228.4	227.7	227.0	226.3	227.0	227.7	228.4
115°	259.1	258.2	257.7	257.4	256.8	256.2	255.6	255.0	255.6	256.2	256.8
117.5°	287.2	286.7	286.5	286.1	285.4	284.7	284.0	283.3	284.0	284.7	285.4
120°	313.8	313.5	313.4	312.9	312.0	311.1	310.2	309.3	310.2	311.1	312.0
122.5°	339.5	339.1	338.9	338.5	337.8	337.1	336.4	335.7	336.4	337.1	337.8
125°	363.7	363.3	363.1	362.7	361.9	361.0	360.2	359.4	360.2	361.0	361.9
127.5°	387.6	387.1	386.8	386.4	385.6	384.8	384.0	383.2	384.0	384.8	385.6
130°	409.3	408.9	408.7	408.3	407.5	406.7	405.9	405.1	405.9	406.7	407.5
132.5°	430.2	429.9	429.7	429.3	428.5	427.6	426.8	426.0	426.8	427.6	428.5
135°	450.8	450.4	450.2	449.9	449.3	448.7	448.1	447.5	448.1	448.7	449.3
137.5°	469.7	469.5	469.4	469.0	468.2	467.3	466.5	465.7	466.5	467.3	468.2
140°	487.2	486.9	486.7	486.4	485.8	485.2	484.6	484.0	484.6	485.2	485.8
142.5°	504.1	503.8	503.6	503.3	502.7	502.1	501.5	500.9	501.5	502.1	502.7
145°	519.9	519.7	519.6	519.2	518.5	517.8	517.1	516.4	517.1	517.8	518.5
147.5°	534.0	533.8	533.7	533.4	532.9	532.4	531.9	531.4	531.9	532.4	532.9
150°	546.8	546.6	546.5	546.3	546.0	545.7	545.4	545.1	545.4	545.7	546.0
152.5°	558.0	557.9	557.9	557.8	557.7	557.6	557.5	557.4	557.5	557.6	557.7
155°	568.1	568.0	567.9	568.0	568.2	568.4	568.6	568.8	568.6	568.4	568.2
157.5°	577.8	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9	577.9
160°	585.5	585.6	585.7	585.8	585.9	586.0	586.1	586.2	586.1	586.0	585.9
162.5°	592.4	592.5	592.5	592.7	593.0	593.3	593.6	593.9	593.6	593.3	593.0
165°	598.3	598.4	598.5	598.6	598.9	599.2	599.5	599.8	599.5	599.2	598.9
167.5°	603.0	603.0	603.0	603.2	603.6	604.1	604.5	604.9	604.5	604.1	603.6
170°	607.1	607.1	607.1	607.3	607.7	608.2	608.6	609.0	608.6	608.2	607.7
172.5°	609.6	609.5	609.4	609.7	610.2	610.7	611.2	611.7	611.2	610.7	610.2
175°	611.9	611.8	611.7	612.0	612.5	613.0	613.5	614.0	613.5	613.0	612.5
177.5°	612.8	612.7	612.6	612.9	613.4	613.9	614.4	614.9	614.4	613.9	613.4
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4FO-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1566.7	1559.9	1557.2	1550.4	1534.1	1523.2	1511.0	1502.9	1504.2	1497.4	1501.5
5°	1517.8	1516.5	1506.9	1493.4	1470.3	1458.0	1436.3	1425.4	1420.0	1421.3	1413.2
7.5°	1477.0	1464.8	1458.0	1436.3	1414.5	1388.7	1371.1	1361.5	1353.4	1345.2	1339.8
10°	1430.8	1420.0	1409.1	1386.0	1356.1	1331.7	1307.2	1297.7	1285.5	1280.0	1275.9
12.5°	1381.9	1375.1	1361.5	1334.4	1300.4	1277.3	1248.8	1243.3	1227.0	1216.2	1213.4
15°	1337.1	1333.0	1308.6	1277.3	1243.3	1220.2	1195.8	1179.5	1152.3	1157.7	1148.2
17.5°	1289.5	1271.9	1256.9	1214.8	1198.5	1163.2	1134.6	1126.5	1107.4	1095.2	1083.0
20°	1236.5	1225.7	1206.6	1179.5	1140.1	1099.3	1077.6	1064.0	1053.1	1034.1	1028.6
22.5°	1186.3	1172.7	1156.4	1121.0	1087.1	1053.1	1023.2	1011.0	997.4	983.8	975.6
25°	1146.9	1126.5	1108.8	1065.3	1031.4	1002.8	983.8	963.4	944.4	936.2	933.5
27.5°	1085.7	1073.5	1055.8	1015.0	983.8	952.5	934.9	921.3	900.9	891.4	883.2
30°	1046.3	1021.8	1001.5	968.8	937.6	903.6	887.3	871.0	858.8	846.6	837.0
32.5°	993.3	974.3	958.0	925.4	894.1	862.9	845.2	820.7	813.9	804.4	793.6
35°	941.7	929.4	911.8	876.4	842.5	820.7	801.7	778.6	770.5	763.7	754.2
37.5°	892.8	875.1	862.9	828.9	799.0	773.2	758.2	739.2	733.8	725.6	718.8
40°	850.6	833.0	820.7	786.8	755.5	728.3	718.8	699.8	691.6	682.1	678.1
42.5°	803.1	788.1	771.8	747.4	714.7	687.6	668.5	657.7	646.8	642.7	634.6
45°	752.8	739.2	727.0	699.8	665.8	646.8	630.5	615.5	607.4	600.6	595.2
47.5°	709.3	697.1	680.8	650.9	623.7	606.0	589.7	574.8	566.6	558.5	551.7
50°	659.0	652.2	634.6	606.0	580.2	559.8	544.9	531.3	525.9	516.4	505.5
52.5°	614.2	602.0	587.0	563.9	540.8	516.4	496.0	487.8	478.3	472.9	463.4
55°	561.2	553.0	536.7	516.4	491.9	471.5	456.6	445.7	433.5	428.0	415.8
57.5°	516.4	501.4	493.3	467.4	444.3	424.0	413.1	402.2	388.6	380.5	375.0
60°	467.4	453.8	441.6	419.9	403.6	381.8	365.5	356.0	346.5	335.6	330.2
62.5°	419.9	409.0	394.1	376.4	356.0	338.3	326.1	312.5	307.1	296.2	292.1
65°	368.2	360.1	347.9	327.5	311.2	296.2	284.0	273.1	267.7	263.6	260.9
67.5°	322.0	311.2	303.0	285.4	267.7	255.5	248.7	241.9	235.1	231.0	226.9
70°	274.5	266.3	258.2	241.9	229.6	218.8	213.3	207.9	203.8	199.7	195.7
72.5°	225.6	221.5	213.3	202.5	193.0	184.8	180.7	173.9	169.9	163.1	160.3
75°	186.2	179.4	175.3	165.8	157.6	150.8	145.4	137.2	131.8	129.1	127.7
77.5°	146.8	144.0	138.6	130.4	126.4	119.6	111.4	108.7	106.0	106.0	104.6
80°	110.1	106.0	101.9	95.1	91.0	85.6	85.6	85.6	84.2	85.6	84.2
82.5°	74.7	72.0	69.3	65.2	63.9	63.9	65.2	65.2	65.2	65.2	65.2
85°	43.5	43.5	43.5	44.8	43.5	43.5	44.8	46.2	44.8	44.8	43.5
87.5°	20.4	20.4	21.7	21.7	23.1	23.1	23.1	23.1	23.1	23.1	24.5
90°	4.5	5.0	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.2	12.6
92.5°	8.1	7.8	8.3	9.2	10.1	11.0	11.9	12.6	13.3	14.0	14.7
95°	11.2	9.1	9.7	10.8	11.9	13.0	14.1	14.8	15.5	16.2	16.9
97.5°	39.3	37.9	35.3	30.1	25.0	19.8	14.6	15.4	16.2	17.0	17.8
100°	85.2	86.2	78.3	62.5	46.7	30.9	15.1	15.9	16.7	17.5	18.3
102.5°	112.4	113.1	104.3	86.7	69.0	51.4	33.8	30.4	27.1	23.7	20.4
105°	140.4	141.0	136.4	127.3	118.2	109.0	99.9	82.0	64.0	46.1	28.2
107.5°	170.1	170.6	171.4	172.9	174.4	175.9	177.4	161.8	146.2	130.6	115.0
110°	200.3	200.7	201.3	202.4	203.5	204.6	205.7	202.4	199.0	195.7	192.4

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	229.1	229.4	230.0	231.1	232.2	233.4	234.5	235.4	236.3	237.2	238.1
115°	257.4	257.7	258.2	259.1	260.0	260.9	261.8	262.8	263.8	264.9	265.9
117.5°	286.1	286.5	286.7	287.2	287.7	288.2	288.7	289.5	290.3	291.2	292.0
120°	312.9	313.4	313.5	313.8	314.1	314.4	314.7	315.5	316.3	317.2	318.0
122.5°	338.5	338.9	339.1	339.5	339.9	340.3	340.7	341.2	341.7	342.2	342.7
125°	362.7	363.1	363.3	363.7	364.1	364.5	364.9	365.1	365.3	365.5	365.7
127.5°	386.4	386.8	387.1	387.6	388.1	388.6	389.1	389.4	389.7	390.0	390.3
130°	408.3	408.7	408.9	409.3	409.7	410.1	410.5	410.9	411.3	411.8	412.2
132.5°	429.3	429.7	429.9	430.2	430.5	430.8	431.1	431.5	431.9	432.3	432.7
135°	449.9	450.2	450.4	450.8	451.2	451.6	452.0	452.3	452.6	452.9	453.2
137.5°	469.0	469.4	469.5	469.7	469.9	470.1	470.3	470.8	471.3	471.8	472.3
140°	486.4	486.7	486.9	487.2	487.5	487.8	488.1	488.5	488.9	489.3	489.7
142.5°	503.3	503.6	503.8	504.1	504.4	504.7	505.0	505.3	505.6	505.9	506.2
145°	519.2	519.6	519.7	519.9	520.1	520.3	520.5	520.7	520.9	521.1	521.3
147.5°	533.4	533.7	533.8	534.0	534.2	534.4	534.6	534.8	535.0	535.2	535.4
150°	546.3	546.5	546.6	546.8	547.0	547.2	547.4	547.6	547.8	548.0	548.2
152.5°	557.8	557.9	557.9	558.0	558.1	558.2	558.3	558.7	559.1	559.6	560.0
155°	568.0	567.9	568.0	568.1	568.2	568.3	568.4	568.9	569.4	569.9	570.4
157.5°	577.9	577.9	577.9	577.8	577.7	577.6	577.5	578.1	578.7	579.3	579.9
160°	585.8	585.7	585.6	585.5	585.4	585.3	585.2	585.8	586.4	587.1	587.7
162.5°	592.7	592.5	592.5	592.4	592.3	592.2	592.1	592.8	593.5	594.2	594.9
165°	598.6	598.5	598.4	598.3	598.2	598.1	598.0	598.8	599.6	600.5	601.3
167.5°	603.2	603.0	603.0	603.0	603.0	603.0	603.0	603.8	604.6	605.5	606.3
170°	607.3	607.1	607.1	607.1	607.1	607.1	607.1	607.9	608.7	609.6	610.4
172.5°	609.7	609.4	609.5	609.6	609.7	609.8	609.9	610.7	611.5	612.3	613.1
175°	612.0	611.7	611.8	611.9	612.0	612.1	612.2	612.9	613.6	614.3	615.0
177.5°	612.9	612.6	612.7	612.8	612.9	613.0	613.1	613.9	614.7	615.5	616.3
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1500.1	1501.5	1497.4	1489.3	1487.9	1490.6	1498.8	1496.1	1489.3	1501.5	1490.6
5°	1417.3	1410.5	1407.7	1410.5	1402.3	1398.2	1406.4	1402.3	1406.4	1407.7	1411.8
7.5°	1337.1	1338.4	1330.3	1331.7	1320.8	1323.5	1323.5	1323.5	1327.6	1330.3	1335.7
10°	1267.8	1270.5	1261.0	1262.4	1254.2	1248.8	1252.8	1261.0	1261.0	1261.0	1263.7
12.5°	1212.1	1199.8	1193.1	1191.7	1182.2	1179.5	1187.6	1190.3	1197.1	1197.1	1201.2
15°	1142.8	1140.1	1134.6	1134.6	1111.5	1117.0	1119.7	1129.2	1142.8	1131.9	1134.6
17.5°	1080.3	1073.5	1066.7	1064.0	1061.2	1053.1	1064.0	1062.6	1070.8	1072.1	1076.2
20°	1024.6	1019.1	1005.5	1006.9	1009.6	997.4	1004.2	1004.2	1012.3	1020.5	1030.0
22.5°	970.2	964.8	958.0	960.7	952.5	949.8	949.8	956.6	966.1	972.9	971.6
25°	928.1	918.6	914.5	910.4	906.3	909.1	905.0	911.8	918.6	922.6	918.6
27.5°	880.5	876.4	868.3	864.2	857.4	860.1	862.9	868.3	872.4	872.4	876.4
30°	834.3	828.9	826.2	822.1	822.1	816.7	818.0	823.5	827.5	831.6	837.0
32.5°	789.5	785.4	781.3	781.3	778.6	777.3	775.9	784.0	784.0	792.2	792.2
35°	752.8	746.0	746.0	739.2	741.9	740.6	737.8	743.3	744.6	750.1	748.7
37.5°	712.0	712.0	709.3	702.5	697.1	698.4	705.2	705.2	709.3	708.0	712.0
40°	671.3	668.5	668.5	664.5	663.1	661.8	663.1	664.5	671.3	669.9	671.3
42.5°	630.5	631.9	625.1	625.1	625.1	621.0	622.3	623.7	626.4	629.1	633.2
45°	591.1	588.4	587.0	584.3	581.6	582.9	581.6	587.0	585.7	588.4	592.4
47.5°	549.0	544.9	543.5	538.1	538.1	540.8	539.5	543.5	544.9	549.0	546.2
50°	508.2	502.8	498.7	500.0	491.9	494.6	494.6	498.7	502.8	504.1	506.8
52.5°	460.6	459.3	457.9	451.1	449.8	448.4	449.8	451.1	456.6	460.6	462.0
55°	414.4	413.1	404.9	402.2	398.1	398.1	400.9	402.2	411.7	413.1	418.5
57.5°	372.3	368.2	358.7	357.4	357.4	357.4	353.3	358.7	361.4	368.2	368.2
60°	326.1	326.1	318.0	318.0	319.3	318.0	318.0	319.3	319.3	324.8	327.5
62.5°	289.4	288.1	288.1	285.4	284.0	285.4	284.0	284.0	285.4	289.4	293.5
65°	256.8	255.5	254.1	252.7	250.0	250.0	251.4	254.1	254.1	256.8	258.2
67.5°	225.6	225.6	222.8	222.8	221.5	220.1	221.5	220.1	225.6	225.6	226.9
70°	194.3	193.0	188.9	187.5	183.4	184.8	184.8	188.9	190.2	193.0	195.7
72.5°	156.3	156.3	153.5	150.8	152.2	149.5	149.5	150.8	150.8	154.9	156.3
75°	129.1	126.4	125.0	126.4	125.0	127.7	125.0	125.0	127.7	127.7	127.7
77.5°	106.0	106.0	104.6	104.6	106.0	104.6	106.0	106.0	106.0	104.6	106.0
80°	87.0	85.6	85.6	85.6	84.2	84.2	84.2	84.2	84.2	84.2	84.2
82.5°	65.2	65.2	63.9	65.2	65.2	63.9	65.2	63.9	63.9	65.2	65.2
85°	43.5	46.2	43.5	43.5	44.8	44.8	46.2	44.8	46.2	43.5	44.8
87.5°	23.1	24.5	24.5	23.1	23.1	24.5	24.5	24.5	25.8	23.1	24.5
90°	12.8	12.9	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.8
92.5°	15.1	15.1	15.2	15.3	15.4	15.5	15.4	15.3	15.2	15.1	15.1
95°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
97.5°	18.2	18.3	18.4	18.5	18.6	18.7	18.6	18.5	18.4	18.3	18.2
100°	18.7	18.8	18.9	19.0	19.1	19.2	19.1	19.0	18.9	18.8	18.7
102.5°	18.7	18.8	19.0	19.2	19.4	19.6	19.4	19.2	19.0	18.8	18.7
105°	19.2	19.3	19.5	19.7	19.9	20.1	19.9	19.7	19.5	19.3	19.2
107.5°	107.2	100.6	87.3	74.0	60.7	47.4	60.7	74.0	87.3	100.6	107.2
110°	190.7	183.4	168.9	154.4	139.9	125.4	139.9	154.4	168.9	183.4	190.7

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	238.6	238.5	238.3	238.1	237.9	237.7	237.9	238.1	238.3	238.5	238.6
115°	266.4	266.6	267.0	267.4	267.8	268.2	267.8	267.4	267.0	266.6	266.4
117.5°	292.4	292.4	292.5	292.6	292.7	292.8	292.7	292.6	292.5	292.4	292.4
120°	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4	318.4
122.5°	343.0	343.1	343.2	343.3	343.4	343.5	343.4	343.3	343.2	343.1	343.0
125°	365.8	365.9	366.1	366.3	366.5	366.7	366.5	366.3	366.1	365.9	365.8
127.5°	390.5	390.4	390.2	390.0	389.8	389.6	389.8	390.0	390.2	390.4	390.5
130°	412.4	412.3	412.1	411.8	411.6	411.4	411.6	411.8	412.1	412.3	412.4
132.5°	432.9	432.7	432.4	432.1	431.8	431.5	431.8	432.1	432.4	432.7	432.9
135°	453.4	453.2	452.9	452.6	452.3	452.0	452.3	452.6	452.9	453.2	453.4
137.5°	472.6	472.5	472.3	472.1	471.9	471.7	471.9	472.1	472.3	472.5	472.6
140°	489.9	489.8	489.6	489.4	489.2	489.0	489.2	489.4	489.6	489.8	489.9
142.5°	506.3	506.2	505.9	505.6	505.3	505.0	505.3	505.6	505.9	506.2	506.3
145°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
147.5°	535.5	535.2	534.7	534.2	533.7	533.2	533.7	534.2	534.7	535.2	535.5
150°	548.3	548.1	547.8	547.5	547.2	546.9	547.2	547.5	547.8	548.1	548.3
152.5°	560.2	559.9	559.4	558.9	558.4	557.9	558.4	558.9	559.4	559.9	560.2
155°	570.6	570.3	569.7	569.1	568.5	567.9	568.5	569.1	569.7	570.3	570.6
157.5°	580.2	579.8	579.0	578.2	577.4	576.6	577.4	578.2	579.0	579.8	580.2
160°	588.0	587.6	586.9	586.2	585.5	584.8	585.5	586.2	586.9	587.6	588.0
162.5°	595.3	595.0	594.4	593.7	593.1	592.5	593.1	593.7	594.4	595.0	595.3
165°	601.7	601.3	600.6	599.9	599.2	598.5	599.2	599.9	600.6	601.3	601.7
167.5°	606.7	606.3	605.5	604.6	603.8	603.0	603.8	604.6	605.5	606.3	606.7
170°	610.8	610.4	609.6	608.7	607.9	607.1	607.9	608.7	609.6	610.4	610.8
172.5°	613.5	613.0	612.1	611.2	610.3	609.4	610.3	611.2	612.1	613.0	613.5
175°	615.3	614.9	614.1	613.3	612.5	611.7	612.5	613.3	614.1	614.9	615.3
177.5°	616.7	616.2	615.2	614.2	613.2	612.2	613.2	614.2	615.2	616.2	616.7
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1	1587.1
2.5°	1501.5	1506.9	1501.5	1490.6	1501.5	1508.3	1515.1	1526.0	1531.4	1531.4	1539.6
5°	1415.9	1426.8	1422.7	1420.0	1430.8	1437.6	1448.5	1462.1	1477.0	1486.6	1497.4
7.5°	1339.8	1346.6	1353.4	1353.4	1364.3	1379.2	1395.5	1411.8	1430.8	1444.4	1452.6
10°	1273.2	1278.7	1282.7	1288.2	1304.5	1320.8	1342.5	1362.9	1379.2	1394.2	1407.7
12.5°	1209.4	1217.5	1227.0	1231.1	1243.3	1263.7	1284.1	1308.6	1334.4	1349.3	1362.9
15°	1148.2	1152.3	1163.2	1175.4	1186.3	1208.0	1233.8	1259.6	1281.4	1304.5	1316.7
17.5°	1085.7	1087.1	1115.6	1108.8	1144.1	1164.5	1178.1	1202.6	1237.9	1256.9	1275.9
20°	1024.6	1038.1	1050.4	1057.2	1076.2	1099.3	1138.7	1157.7	1186.3	1203.9	1220.2
22.5°	977.0	997.4	997.4	1013.7	1023.2	1044.9	1073.5	1110.2	1141.4	1153.6	1176.7
25°	934.9	944.4	960.7	966.1	983.8	1002.8	1021.8	1061.2	1095.2	1111.5	1127.8
27.5°	880.5	892.8	914.5	914.5	937.6	958.0	981.1	1006.9	1040.9	1064.0	1081.6
30°	838.4	850.6	860.1	875.1	884.6	903.6	944.4	963.4	993.3	1013.7	1035.4
32.5°	799.0	808.5	816.7	833.0	843.8	865.6	887.3	921.3	947.1	966.1	989.2
35°	755.5	765.0	775.9	788.1	804.4	824.8	845.2	873.7	899.5	917.2	936.2
37.5°	714.7	721.5	737.8	746.0	759.6	778.6	804.4	834.3	857.4	871.0	890.0
40°	675.3	680.8	693.0	708.0	717.5	732.4	759.6	785.4	813.9	830.2	845.2
42.5°	633.2	640.0	650.9	665.8	680.8	697.1	712.0	741.9	767.7	781.3	797.6
45°	596.5	600.6	608.8	623.7	638.7	650.9	674.0	701.2	725.6	736.5	754.2
47.5°	553.0	557.1	569.3	576.1	592.4	608.8	631.9	659.0	680.8	691.6	708.0
50°	508.2	512.3	520.4	535.4	546.2	563.9	584.3	607.4	634.6	649.5	659.0
52.5°	464.7	472.9	479.7	491.9	505.5	523.1	542.2	563.9	587.0	602.0	612.8
55°	421.2	428.0	436.2	443.0	459.3	475.6	497.3	517.7	538.1	551.7	563.9
57.5°	372.3	381.8	390.0	403.6	415.8	429.4	453.8	470.2	494.6	504.1	515.0
60°	330.2	339.7	346.5	357.4	368.2	385.9	402.2	422.6	443.0	455.2	468.8
62.5°	294.9	298.9	303.0	313.9	324.8	341.1	357.4	377.8	399.5	406.3	417.2
65°	259.5	263.6	270.4	279.9	288.1	297.6	315.2	331.6	351.9	362.8	366.9
67.5°	229.6	233.7	235.1	241.9	248.7	259.5	269.0	285.4	304.4	311.2	319.3
70°	195.7	202.5	203.8	209.3	212.0	218.8	229.6	241.9	256.8	269.0	275.8
72.5°	156.3	165.8	168.5	176.6	180.7	187.5	195.7	205.2	214.7	220.1	225.6
75°	127.7	130.4	131.8	138.6	145.4	154.9	159.0	164.4	172.6	179.4	184.8
77.5°	106.0	107.3	108.7	108.7	110.1	115.5	123.7	130.4	135.9	138.6	142.7
80°	85.6	84.2	84.2	85.6	85.6	85.6	88.3	97.8	100.6	107.3	106.0
82.5°	66.6	63.9	65.2	63.9	63.9	63.9	63.9	65.2	65.2	69.3	72.0
85°	43.5	44.8	43.5	43.5	42.1	43.5	42.1	42.1	40.8	40.8	39.4
87.5°	23.1	24.5	23.1	23.1	21.7	23.1	21.7	21.7	20.4	20.4	17.7
90°	12.6	12.2	11.7	11.3	10.9	9.6	8.3	7.0	5.7	5.0	4.5
92.5°	14.7	14.0	13.3	12.6	11.9	11.0	10.1	9.2	8.3	7.8	8.1
95°	16.9	16.2	15.5	14.8	14.1	13.0	11.9	10.8	9.7	9.1	11.2
97.5°	17.8	17.0	16.2	15.4	14.6	19.8	25.0	30.1	35.3	37.9	39.3
100°	18.3	17.5	16.7	15.9	15.1	30.9	46.7	62.5	78.3	86.2	85.2
102.5°	20.4	23.7	27.1	30.4	33.8	51.4	69.0	86.7	104.3	113.1	112.4
105°	28.2	46.1	64.0	82.0	99.9	109.0	118.2	127.3	136.4	141.0	140.4
107.5°	115.0	130.6	146.2	161.8	177.4	175.9	174.4	172.9	171.4	170.6	170.1
110°	192.4	195.7	199.0	202.4	205.7	204.6	203.5	202.4	201.3	200.7	200.3

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	238.1	237.2	236.3	235.4	234.5	233.4	232.2	231.1	230.0	229.4	229.1
115°	265.9	264.9	263.8	262.8	261.8	260.9	260.0	259.1	258.2	257.7	257.4
117.5°	292.0	291.2	290.3	289.5	288.7	288.2	287.7	287.2	286.7	286.5	286.1
120°	318.0	317.2	316.3	315.5	314.7	314.4	314.1	313.8	313.5	313.4	312.9
122.5°	342.7	342.2	341.7	341.2	340.7	340.3	339.9	339.5	339.1	338.9	338.5
125°	365.7	365.5	365.3	365.1	364.9	364.5	364.1	363.7	363.3	363.1	362.7
127.5°	390.3	390.0	389.7	389.4	389.1	388.6	388.1	387.6	387.1	386.8	386.4
130°	412.2	411.8	411.3	410.9	410.5	410.1	409.7	409.3	408.9	408.7	408.3
132.5°	432.7	432.3	431.9	431.5	431.1	430.8	430.5	430.2	429.9	429.7	429.3
135°	453.2	452.9	452.6	452.3	452.0	451.6	451.2	450.8	450.4	450.2	449.9
137.5°	472.3	471.8	471.3	470.8	470.3	470.1	469.9	469.7	469.5	469.4	469.0
140°	489.7	489.3	488.9	488.5	488.1	487.8	487.5	487.2	486.9	486.7	486.4
142.5°	506.2	505.9	505.6	505.3	505.0	504.7	504.4	504.1	503.8	503.6	503.3
145°	521.3	521.1	520.9	520.7	520.5	520.3	520.1	519.9	519.7	519.6	519.2
147.5°	535.4	535.2	535.0	534.8	534.6	534.4	534.2	534.0	533.8	533.7	533.4
150°	548.2	548.0	547.8	547.6	547.4	547.2	547.0	546.8	546.6	546.5	546.3
152.5°	560.0	559.6	559.1	558.7	558.3	558.2	558.1	558.0	557.9	557.9	557.8
155°	570.4	569.9	569.4	568.9	568.4	568.3	568.2	568.1	568.0	567.9	568.0
157.5°	579.9	579.3	578.7	578.1	577.5	577.6	577.7	577.8	577.9	577.9	577.9
160°	587.7	587.1	586.4	585.8	585.2	585.3	585.4	585.5	585.6	585.7	585.8
162.5°	594.9	594.2	593.5	592.8	592.1	592.2	592.3	592.4	592.5	592.5	592.7
165°	601.3	600.5	599.6	598.8	598.0	598.1	598.2	598.3	598.4	598.5	598.6
167.5°	606.3	605.5	604.6	603.8	603.0	603.0	603.0	603.0	603.0	603.0	603.2
170°	610.4	609.6	608.7	607.9	607.1	607.1	607.1	607.1	607.1	607.1	607.3
172.5°	613.1	612.3	611.5	610.7	609.9	609.8	609.7	609.6	609.5	609.4	609.7
175°	615.0	614.3	613.6	612.9	612.2	612.1	612.0	611.9	611.8	611.7	612.0
177.5°	616.3	615.5	614.7	613.9	613.1	613.0	612.9	612.8	612.7	612.6	612.9
180°	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0	614.0

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1587.1	1587.1	1587.1	1587.1
2.5°	1546.3	1555.9	1574.9	1591.2
5°	1513.7	1528.7	1557.2	1585.8
7.5°	1474.3	1497.4	1534.1	1573.5
10°	1436.3	1466.2	1511.0	1557.2
12.5°	1398.2	1429.5	1477.0	1536.8
15°	1353.4	1386.0	1443.1	1515.1
17.5°	1314.0	1357.5	1409.1	1481.1
20°	1271.9	1304.5	1371.1	1447.2
22.5°	1218.9	1273.2	1335.7	1415.9
25°	1176.7	1224.3	1286.8	1377.9
27.5°	1125.1	1180.8	1256.9	1337.1
30°	1083.0	1129.2	1199.8	1296.3
32.5°	1034.1	1088.4	1161.8	1256.9
35°	990.6	1036.8	1106.1	1202.6
37.5°	939.0	989.2	1066.7	1152.3
40°	894.1	943.0	1016.4	1096.6
42.5°	839.8	891.4	964.8	1032.7
45°	796.3	843.8	902.3	964.8
47.5°	743.3	793.6	850.6	894.1
50°	695.7	741.9	786.8	823.5
52.5°	644.1	686.2	727.0	754.2
55°	596.5	629.1	661.8	680.8
57.5°	540.8	572.1	599.2	610.1
60°	491.9	517.7	535.4	547.6
62.5°	440.3	459.3	472.9	479.7
65°	390.0	403.6	410.4	417.2
67.5°	338.3	350.6	354.7	362.8
70°	284.0	297.6	300.3	304.4
72.5°	243.2	243.2	248.7	254.1
75°	194.3	197.0	199.7	199.7
77.5°	152.2	152.2	154.9	156.3
80°	111.4	112.8	112.8	111.4
82.5°	76.1	78.8	76.1	74.7
85°	42.1	47.6	44.8	44.8
87.5°	17.7	17.7	20.4	17.7
90°	3.5	2.5	1.5	0.5
92.5°	8.7	9.3	9.9	10.5
95°	15.3	19.5	23.6	27.8
97.5°	42.1	45.0	47.8	50.6
100°	83.2	81.1	79.1	77.1
102.5°	111.1	109.8	108.5	107.2
105°	139.3	138.2	137.0	135.9
107.5°	169.2	168.3	167.4	166.5
110°	199.5	198.7	197.9	197.1

TEST NUMBER: P1031047

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	228.4	227.7	227.0	226.3
115°	256.8	256.2	255.6	255.0
117.5°	285.4	284.7	284.0	283.3
120°	312.0	311.1	310.2	309.3
122.5°	337.8	337.1	336.4	335.7
125°	361.9	361.0	360.2	359.4
127.5°	385.6	384.8	384.0	383.2
130°	407.5	406.7	405.9	405.1
132.5°	428.5	427.6	426.8	426.0
135°	449.3	448.7	448.1	447.5
137.5°	468.2	467.3	466.5	465.7
140°	485.8	485.2	484.6	484.0
142.5°	502.7	502.1	501.5	500.9
145°	518.5	517.8	517.1	516.4
147.5°	532.9	532.4	531.9	531.4
150°	546.0	545.7	545.4	545.1
152.5°	557.7	557.6	557.5	557.4
155°	568.2	568.4	568.6	568.8
157.5°	577.9	577.9	577.9	577.9
160°	585.9	586.0	586.1	586.2
162.5°	593.0	593.3	593.6	593.9
165°	598.9	599.2	599.5	599.8
167.5°	603.6	604.1	604.5	604.9
170°	607.7	608.2	608.6	609.0
172.5°	610.2	610.7	611.2	611.7
175°	612.5	613.0	613.5	614.0
177.5°	613.4	613.9	614.4	614.9
180°	614.0	614.0	614.0	614.0

(END OF REPORT)