

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: P1000145

Luminaire Tested: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000145
REPORT IS A COMBINATION OF REPORTS P988705 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

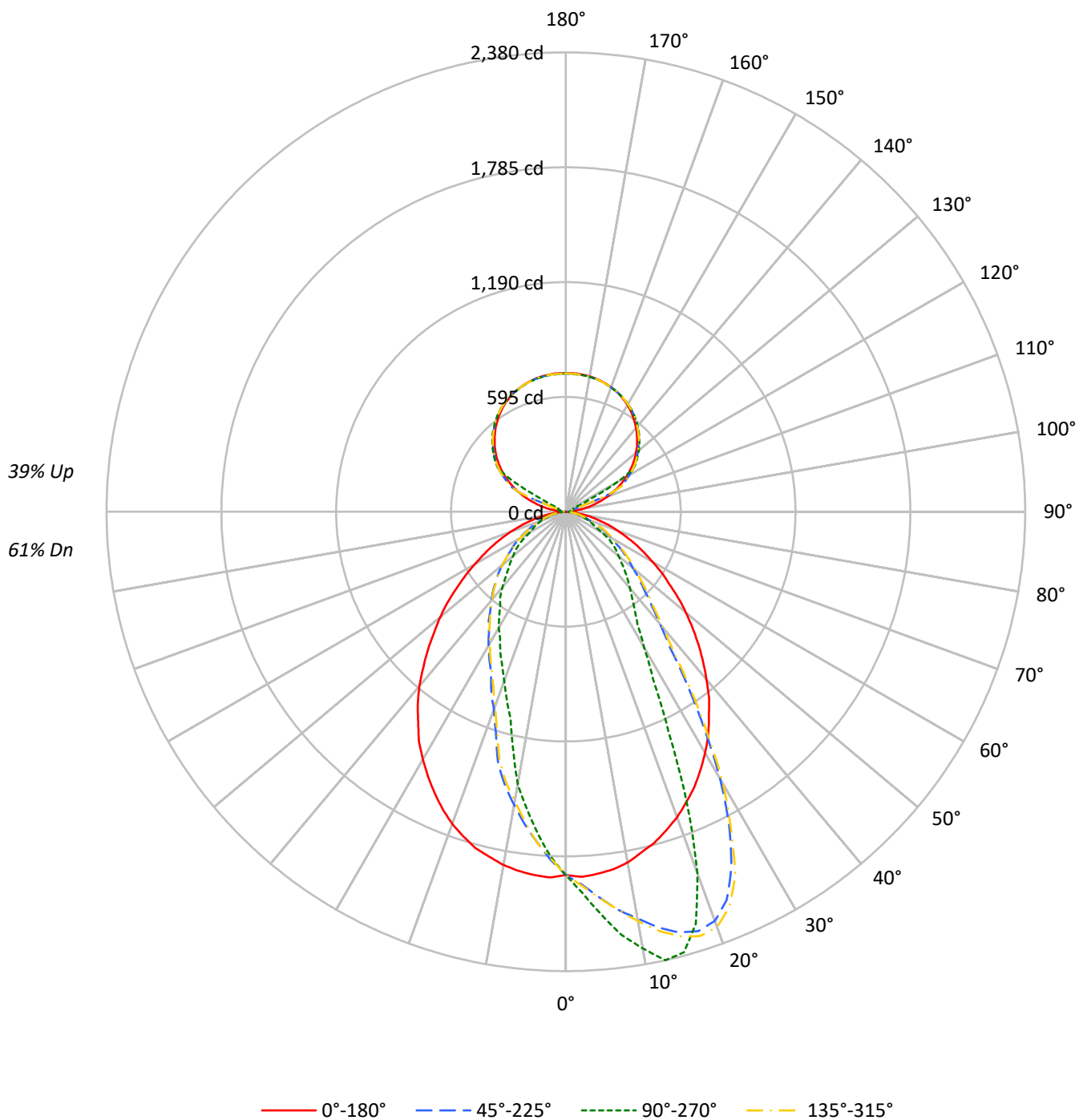
Lumens per Lamp: N/A
Luminaire Lumens: 5354.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P1000145

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Luminous Intensity Polar Plot



TEST NUMBER: P1000145

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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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	66	66	66
1	101	97	93	90	95	91	88	85	80	77	75	69	68	66	60	59	58	58	58	53
2	93	86	80	75	87	81	76	72	71	67	64	62	59	57	54	52	50	50	46	46
3	85	77	70	64	80	72	66	61	64	59	55	56	52	49	49	46	44	44	40	40
4	79	69	61	55	74	65	58	53	57	52	48	51	47	43	44	41	39	39	36	36
5	73	62	54	48	68	58	51	46	52	46	42	46	42	38	40	37	35	35	32	32
6	68	56	48	43	63	53	46	41	47	42	38	42	38	34	37	34	31	31	28	28
7	63	51	43	38	59	48	41	37	43	38	34	39	34	31	34	31	28	28	26	26
8	59	47	39	34	55	44	38	33	40	34	30	36	31	28	32	28	26	26	23	23
9	55	43	36	31	52	41	34	30	37	31	28	33	29	26	30	26	23	23	21	21
10	51	40	33	28	48	38	31	27	34	29	25	31	27	23	28	24	22	22	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29788	29788	29788	29788
5°	29857	31640	29961	25276
10°	29529	33442	29738	20873
15°	28888	33453	29378	15680
20°	28116	27652	28729	12937
25°	27183	17278	27770	11005
30°	25989	11063	26695	9475
35°	24537	8502	25333	8108
40°	22921	7146	23900	7092
45°	21191	6082	22078	5954
50°	19420	5168	20326	5150
55°	17459	4492	18399	4432
60°	15715	3425	16547	3384
65°	14085	2577	14924	2923
70°	12291	2059	13252	2383
75°	10388	1577	11339	1803
80°	8247	1072	8878	1181
85°	5721	553	6286	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 27250 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	3.3
10°-20°	498.2	9.3
20°-30°	641.2	12.0
30°-40°	608.3	11.4
40°-50°	521.3	9.7
50°-60°	397.0	7.4
60°-70°	250.4	4.7
70°-80°	124.9	2.3
80°-90°	33.4	0.6
90°-100°	23.6	0.4
100°-110°	88.1	1.6
110°-120°	233.6	4.4
120°-130°	387.5	7.2
130°-140°	411.6	7.7
140°-150°	382.5	7.1
150°-160°	307.5	5.7
160°-170°	198.2	3.7
170°-180°	68.2	1.3
0°-30°	1317.9	24.6
0°-40°	1926.2	36.0
0°-60°	2844.6	53.1
0°-90°	3253.3	60.8
90°-120°	345.3	6.4
90°-150°	1526.9	28.5
90°-180°	2101.0	39.2
0°-180°	5354.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1882	1882	1882	1882	1882	
5°	1883	2094	1890	1673	1883	179
15°	1775	2363	1805	1108	1775	499
25°	1574	1261	1608	803	1574	723
35°	1292	621	1334	592	1292	808
45°	970	432	1011	422	970	749
55°	655	300	690	296	655	590
65°	396	156	420	176	396	393
75°	186	82	203	94	186	201
85°	40	24	44	25	40	46
90°	0	14	0	14	0	4
95°	34	22	34	22	34	40
105°	158	39	158	39	158	168
115°	298	42	298	42	298	293
125°	422	443	422	443	422	376
135°	522	539	522	539	522	403
145°	605	614	605	614	605	378
155°	666	667	666	667	666	307
165°	702	700	702	700	702	198
175°	718	714	718	714	718	68
180°	717	717	717	717	717	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1893.6	1901.4	1905.3	1910.6	1922.3	1930.2	1942.0	1944.6	1943.3	1948.5	1934.1
5°	1883.1	1900.1	1915.8	1928.9	1949.8	1962.9	1977.3	1994.3	1998.2	2017.8	2006.0
7.5°	1868.7	1893.6	1915.8	1942.0	1973.3	1990.4	2012.6	2038.7	2050.5	2074.0	2080.6
10°	1845.2	1880.5	1918.4	1945.9	1989.0	2019.1	2040.0	2081.9	2109.4	2144.7	2139.4
12.5°	1807.3	1853.0	1904.0	1949.8	2006.0	2025.7	2064.9	2108.0	2143.4	2176.0	2204.8
15°	1774.6	1826.9	1883.1	1939.3	2003.4	2040.0	2079.3	2135.5	2173.4	2231.0	2255.8
17.5°	1730.1	1796.8	1863.5	1926.3	2002.1	2044.0	2092.4	2147.3	2203.5	2258.4	2278.0
20°	1684.3	1756.3	1828.2	1913.2	1999.5	2040.0	2089.7	2157.7	2212.7	2255.8	2255.8
22.5°	1629.4	1717.0	1799.4	1880.5	1974.7	2033.5	2084.5	2164.3	2203.5	2212.7	2177.4
25°	1574.5	1662.1	1752.3	1853.0	1960.3	2012.6	2070.1	2144.7	2157.7	2121.1	2029.6
27.5°	1509.1	1607.2	1709.2	1817.7	1930.2	1995.6	2047.9	2097.6	2072.7	1974.7	1832.1
30°	1442.4	1548.3	1663.4	1766.7	1902.7	1962.9	2007.4	2021.7	1943.3	1783.7	1599.3
32.5°	1373.1	1476.4	1598.0	1722.3	1859.6	1917.1	1945.9	1908.0	1764.1	1562.7	1337.8
35°	1292.0	1408.4	1535.3	1664.7	1800.7	1843.9	1860.9	1768.0	1583.6	1323.4	1099.8
37.5°	1218.8	1335.2	1471.2	1603.3	1735.3	1758.9	1741.9	1596.7	1362.6	1105.0	886.6
40°	1132.5	1256.7	1390.1	1537.9	1646.4	1653.0	1611.1	1422.8	1132.5	890.6	755.9
42.5°	1052.7	1178.3	1311.6	1462.0	1544.4	1522.2	1466.0	1218.8	945.5	767.6	659.1
45°	970.3	1089.3	1233.2	1366.6	1425.4	1373.1	1288.1	1025.3	793.8	660.4	576.7
47.5°	890.6	1001.7	1144.3	1272.4	1282.9	1224.0	1123.3	859.2	687.9	580.6	512.6
50°	812.1	923.3	1056.6	1162.6	1152.1	1071.0	957.3	746.7	597.6	512.6	456.4
52.5°	733.6	834.3	963.8	1047.5	1003.0	924.6	812.1	632.9	521.8	447.2	404.1
55°	655.2	749.3	860.5	929.8	859.2	768.9	689.2	542.7	452.5	392.3	359.6
57.5°	589.8	664.3	766.3	808.2	723.2	652.6	583.2	466.9	392.3	349.2	311.2
60°	517.9	585.9	669.6	694.4	606.8	549.2	490.4	394.9	336.1	298.2	273.3
62.5°	456.4	512.6	576.7	576.7	499.5	456.4	411.9	330.9	282.5	252.4	240.6
65°	396.2	436.8	482.5	477.3	411.9	374.0	338.7	273.3	236.7	215.8	204.0
67.5°	337.4	368.8	398.9	380.5	333.5	300.8	268.1	221.0	196.2	181.8	166.1
70°	283.8	308.6	324.3	307.3	260.2	232.8	209.2	177.8	158.2	139.9	130.8
72.5°	238.0	248.5	253.7	232.8	193.5	177.8	160.8	138.6	121.6	112.5	109.8
75°	185.7	194.9	190.9	175.2	142.5	130.8	117.7	102.0	98.1	92.8	90.2
77.5°	145.2	145.2	138.6	124.2	102.0	92.8	87.6	79.8	75.8	74.5	71.9
80°	103.3	102.0	98.1	82.4	69.3	64.1	64.1	58.8	57.5	54.9	54.9
82.5°	68.0	68.0	62.8	49.7	45.8	44.5	43.2	40.5	40.5	39.2	39.2
85°	40.5	37.9	31.4	27.5	26.2	26.2	24.8	23.5	24.8	23.5	23.5
87.5°	18.3	14.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
90°	0.5	1.8	3.0	4.3	5.6	6.2	6.7	7.6	8.5	9.5	10.4
92.5°	13.0	12.5	12.1	11.6	11.1	10.9	11.1	11.4	11.7	12.1	12.4
95°	33.7	29.9	26.1	22.3	18.5	16.6	17.0	17.8	18.6	19.4	20.2
97.5°	60.7	51.2	41.8	32.3	22.8	18.1	19.0	20.9	22.7	24.6	26.4
100°	91.8	76.0	60.2	44.4	28.6	20.7	21.7	23.7	25.6	27.6	29.6
102.5°	126.0	125.8	125.6	125.3	125.1	125.0	114.5	93.5	72.6	51.6	30.6
105°	157.6	161.1	164.5	168.0	171.5	173.2	157.5	126.0	94.5	63.1	31.6
107.5°	194.4	197.3	200.2	203.1	206.0	207.4	188.0	149.2	110.3	71.5	32.7
110°	229.7	232.1	234.5	237.0	239.4	240.6	223.9	190.6	157.3	124.0	90.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	262.9	265.0	267.0	269.1	271.2	272.2	271.2	269.3	267.3	265.4	263.4
115°	298.1	300.1	302.1	304.0	306.0	307.0	308.4	311.3	314.2	317.0	319.9
117.5°	328.7	331.0	333.3	335.6	337.9	339.1	340.1	342.0	344.0	345.9	347.9
120°	363.0	364.7	366.4	368.1	369.8	370.7	371.7	373.8	375.9	378.0	380.1
122.5°	392.0	393.8	395.7	397.5	399.4	400.3	401.5	403.8	406.1	408.4	410.7
125°	421.5	423.0	424.5	426.0	427.5	428.3	429.4	431.6	433.7	435.9	438.1
127.5°	448.5	450.1	451.7	453.4	455.0	455.8	456.7	458.4	460.1	461.8	463.5
130°	473.9	475.7	477.6	479.4	481.3	482.2	482.8	484.1	485.4	486.6	487.9
132.5°	499.8	501.3	502.8	504.3	505.8	506.6	507.2	508.5	509.8	511.0	512.3
135°	521.6	523.4	525.3	527.1	529.0	529.9	530.4	531.5	532.5	533.6	534.6
137.5°	544.4	545.8	547.2	548.6	550.0	550.7	551.3	552.4	553.5	554.7	555.8
140°	566.7	567.6	568.6	569.5	570.4	570.9	571.5	572.8	574.1	575.3	576.6
142.5°	585.4	586.2	587.0	587.8	588.6	589.0	589.8	591.3	592.8	594.3	595.8
145°	605.1	605.0	604.9	604.8	604.7	604.6	605.6	607.5	609.5	611.4	613.4
147.5°	622.2	621.8	621.5	621.1	620.8	620.6	621.6	623.6	625.5	627.5	629.5
150°	638.8	638.0	637.2	636.4	635.6	635.2	636.1	638.0	639.8	641.7	643.5
152.5°	652.8	651.9	650.9	650.0	649.1	648.6	649.5	651.2	652.9	654.7	656.4
155°	666.3	665.3	664.2	663.2	662.1	661.6	662.3	663.7	665.0	666.4	667.8
157.5°	677.2	676.3	675.3	674.4	673.5	673.0	673.5	674.6	675.6	676.7	677.7
160°	686.5	685.8	685.1	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5
162.5°	694.8	694.1	693.4	692.7	692.0	691.7	692.0	692.6	693.1	693.7	694.3
165°	702.1	701.4	700.7	700.0	699.3	698.9	699.1	699.4	699.8	700.1	700.5
167.5°	707.8	707.1	706.4	705.7	705.0	704.6	704.8	705.1	705.5	705.8	706.2
170°	712.4	711.7	711.0	710.3	709.6	709.3	709.4	709.7	709.9	710.2	710.4
172.5°	715.5	714.8	714.1	713.4	712.7	712.4	712.5	712.8	713.0	713.3	713.5
175°	718.1	717.3	716.5	715.7	714.9	714.5	714.6	714.8	715.1	715.3	715.5
177.5°	719.2	718.4	717.6	716.7	715.9	715.5	715.6	715.7	715.8	716.0	716.1
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1948.5	1951.1	1955.0	1973.3	1976.0	1981.2	1978.6	1978.6	1979.9	1977.3	1978.6
5°	2032.2	2036.1	2055.7	2078.0	2083.2	2078.0	2084.5	2093.7	2093.7	2093.7	2091.0
7.5°	2110.7	2125.0	2147.3	2180.0	2186.5	2193.0	2204.8	2197.0	2199.6	2211.4	2207.4
10°	2186.5	2207.4	2232.3	2259.7	2274.1	2283.3	2288.5	2300.3	2327.7	2296.4	2308.1
12.5°	2258.4	2288.5	2314.7	2344.7	2355.2	2367.0	2370.9	2381.4	2381.4	2380.1	2389.2
15°	2305.5	2333.0	2356.5	2376.1	2378.7	2376.1	2373.5	2374.8	2378.7	2363.1	2372.2
17.5°	2316.0	2318.6	2326.4	2318.6	2319.9	2292.4	2276.7	2272.8	2236.2	2237.5	2267.6
20°	2265.0	2220.5	2208.7	2165.6	2139.4	2068.8	2066.2	2046.6	1969.4	1993.0	1987.7
22.5°	2125.0	2049.2	1948.5	1898.8	1874.0	1799.4	1741.9	1701.3	1673.9	1646.4	1634.7
25°	1940.7	1817.7	1675.2	1577.1	1562.7	1493.4	1387.5	1337.8	1279.0	1260.6	1292.0
27.5°	1702.7	1543.1	1382.3	1231.9	1204.4	1141.6	1088.0	1052.7	984.7	980.8	983.4
30°	1379.6	1218.8	1084.1	986.0	918.0	889.2	853.9	827.8	800.3	810.8	813.4
32.5°	1133.8	980.8	855.2	802.9	771.6	753.2	723.2	706.2	694.4	690.5	689.2
35°	901.0	799.0	742.8	691.8	673.5	660.4	638.2	630.3	619.9	621.2	621.2
37.5°	771.6	686.6	644.7	618.6	601.6	595.0	580.6	572.8	566.2	563.6	567.6
40°	665.6	606.8	580.6	557.1	542.7	540.1	532.2	523.1	515.2	516.5	520.5
42.5°	588.5	554.5	523.1	504.8	494.3	490.4	483.9	477.3	477.3	473.4	472.1
45°	527.0	499.5	473.4	456.4	449.9	444.6	436.8	435.5	430.2	431.5	432.9
47.5°	472.1	449.9	430.2	413.2	406.7	405.4	397.5	392.3	392.3	391.0	389.7
50°	422.4	400.2	383.2	374.0	364.9	362.2	360.9	359.6	357.0	357.0	358.3
52.5°	381.9	359.6	346.5	338.7	333.5	330.9	330.9	329.5	329.5	329.5	328.2
55°	337.4	319.1	308.6	306.0	303.4	302.1	300.8	298.2	296.9	299.5	296.9
57.5°	295.5	289.0	279.9	277.2	270.7	270.7	266.8	264.2	261.5	264.2	264.2
60°	262.9	253.7	248.5	240.6	235.4	230.2	223.6	222.3	219.7	218.4	217.1
62.5°	228.9	221.0	207.9	196.2	188.3	183.1	180.5	179.2	179.2	177.8	177.8
65°	190.9	172.6	166.1	162.2	160.8	159.5	156.9	155.6	156.9	155.6	156.9
67.5°	149.1	146.5	142.5	139.9	138.6	137.3	137.3	136.0	136.0	136.0	136.0
70°	129.5	122.9	121.6	119.0	119.0	117.7	117.7	117.7	117.7	116.4	119.0
72.5°	107.2	103.3	102.0	100.7	100.7	100.7	99.4	99.4	99.4	98.1	99.4
75°	87.6	86.3	83.7	83.7	82.4	83.7	82.4	82.4	81.1	82.4	82.4
77.5°	70.6	69.3	68.0	68.0	66.7	66.7	66.7	66.7	66.7	66.7	68.0
80°	53.6	52.3	51.0	52.3	51.0	52.3	51.0	51.0	52.3	51.0	51.0
82.5°	39.2	37.9	37.9	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
85°	23.5	22.2	22.2	23.5	22.2	23.5	22.2	22.2	22.2	23.5	23.5
87.5°	10.5	11.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.8
90°	11.0	11.6	12.1	12.7	13.0	13.1	13.3	13.6	13.8	14.0	13.8
92.5°	12.6	12.9	13.1	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13.9
95°	20.8	21.4	21.9	22.5	22.8	22.7	22.6	22.5	22.4	22.3	22.4
97.5°	26.8	27.1	27.5	27.8	28.0	28.1	28.2	28.3	28.4	28.5	28.4
100°	30.5	31.4	32.3	33.2	33.7	33.8	34.0	34.3	34.5	34.7	34.5
102.5°	31.9	33.1	34.4	35.7	36.3	36.5	36.8	37.2	37.5	37.9	37.5
105°	32.9	34.1	35.4	36.7	37.3	37.5	38.0	38.5	38.9	39.4	38.9
107.5°	34.0	35.2	36.5	37.8	38.4	38.6	39.1	39.5	40.0	40.4	40.0
110°	79.2	67.7	56.2	44.7	38.9	39.1	39.6	40.1	40.5	41.0	40.5

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	213.7	164.1	114.4	64.7	39.9	40.1	40.4	40.8	41.1	41.5	41.1
115°	266.5	213.2	159.8	106.5	79.8	75.7	67.4	59.1	50.8	42.5	50.8
117.5°	331.4	315.0	298.5	282.0	273.8	258.7	228.5	198.3	168.1	137.9	168.1
120°	381.5	382.9	384.2	385.6	386.3	378.5	363.0	347.4	331.9	316.3	331.9
122.5°	411.4	412.1	412.8	413.5	413.8	413.9	414.0	414.1	414.2	414.3	414.2
125°	438.9	439.7	440.6	441.4	441.8	442.0	442.3	442.6	443.0	443.3	443.0
127.5°	464.7	465.8	467.0	468.1	468.7	468.8	468.9	469.0	469.1	469.2	469.1
130°	489.2	490.4	491.7	493.0	493.6	493.5	493.4	493.3	493.2	493.1	493.2
132.5°	513.3	514.3	515.4	516.4	516.9	516.8	516.7	516.6	516.5	516.4	516.5
135°	535.8	536.9	538.1	539.2	539.8	539.7	539.4	539.2	538.9	538.7	538.9
137.5°	557.0	558.1	559.3	560.4	561.0	560.8	560.5	560.2	559.8	559.5	559.8
140°	577.6	578.6	579.7	580.7	581.2	580.9	580.4	579.8	579.3	578.7	579.3
142.5°	596.7	597.6	598.5	599.4	599.9	599.6	599.0	598.5	597.9	597.3	597.9
145°	614.2	615.0	615.8	616.6	617.0	616.7	616.1	615.6	615.0	614.4	615.0
147.5°	630.1	630.7	631.2	631.8	632.1	631.9	631.4	630.9	630.5	630.0	630.5
150°	644.2	644.9	645.6	646.3	646.6	646.3	645.7	645.2	644.6	644.0	644.6
152.5°	657.1	657.8	658.5	659.2	659.5	659.1	658.3	657.5	656.7	655.9	656.7
155°	668.5	669.2	669.9	670.6	670.9	670.4	669.5	668.6	667.7	666.8	667.7
157.5°	678.5	679.3	680.1	680.9	681.3	680.8	679.9	679.0	678.1	677.2	678.1
160°	687.2	687.9	688.6	689.3	689.6	689.2	688.4	687.6	686.8	686.0	686.8
162.5°	695.1	695.9	696.7	697.5	697.9	697.4	696.3	695.3	694.2	693.2	694.2
165°	701.3	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	701.3
167.5°	707.0	707.8	708.6	709.4	709.8	709.3	708.3	707.2	706.2	705.2	706.2
170°	711.2	712.0	712.8	713.6	714.0	713.5	712.4	711.4	710.3	709.3	710.3
172.5°	714.3	715.1	715.9	716.7	717.1	716.6	715.5	714.5	713.4	712.4	713.4
175°	716.3	717.1	718.0	718.8	719.2	718.6	717.5	716.3	715.2	714.0	715.2
177.5°	716.9	717.7	718.5	719.3	719.7	719.2	718.1	717.1	716.0	715.0	716.0
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1983.8	1974.7	1972.0	1974.7	1972.0	1973.3	1964.2	1930.2	1939.3	1925.0	1932.8
5°	2096.3	2088.4	2071.4	2068.8	2066.2	2063.6	2050.5	2020.4	2008.7	1989.0	1987.7
7.5°	2203.5	2203.5	2190.4	2181.3	2169.5	2160.4	2143.4	2098.9	2080.6	2057.0	2044.0
10°	2309.4	2275.4	2289.8	2280.7	2251.9	2246.7	2215.3	2189.1	2153.8	2130.3	2109.4
12.5°	2385.3	2374.8	2361.7	2353.9	2346.0	2329.0	2308.1	2241.4	2223.1	2176.0	2152.5
15°	2382.7	2376.1	2380.1	2380.1	2377.4	2373.5	2356.5	2308.1	2276.7	2231.0	2190.4
17.5°	2254.5	2271.5	2288.5	2300.3	2326.4	2338.2	2353.9	2325.1	2305.5	2266.3	2223.1
20°	2030.9	2072.7	2122.4	2132.9	2156.4	2225.7	2257.1	2282.0	2289.8	2276.7	2241.4
22.5°	1719.7	1755.0	1875.3	1872.7	1906.7	1989.0	2080.6	2155.1	2214.0	2246.7	2233.6
25°	1347.0	1396.6	1460.7	1509.1	1620.3	1743.2	1857.0	1976.0	2078.0	2168.2	2190.4
27.5°	1018.7	1084.1	1135.1	1199.2	1255.4	1400.6	1547.0	1732.7	1851.7	2023.0	2112.0
30°	823.9	853.9	904.9	935.0	962.5	1073.6	1239.7	1422.8	1632.0	1829.5	1982.5
32.5°	703.6	724.5	762.4	775.5	804.2	878.8	983.4	1150.8	1366.6	1605.9	1807.3
35°	631.6	653.9	661.7	673.5	697.0	744.1	816.0	937.6	1132.5	1366.6	1607.2
37.5°	570.2	581.9	604.2	612.0	619.9	655.2	703.6	788.6	918.0	1110.3	1377.0
40°	527.0	533.5	545.3	551.9	557.1	581.9	625.1	682.6	778.1	924.6	1170.4
42.5°	481.2	489.1	496.9	504.8	511.3	530.9	557.1	612.0	676.1	787.2	965.1
45°	436.8	442.0	451.2	456.4	465.5	481.2	504.8	542.7	600.2	670.9	814.7
47.5°	396.2	402.8	406.7	413.2	419.8	436.8	459.0	483.9	530.9	600.2	704.9
50°	359.6	367.5	372.7	374.0	379.2	394.9	413.2	440.7	470.8	524.4	615.9
52.5°	333.5	334.8	338.7	343.9	342.6	351.8	368.8	389.7	421.1	464.2	530.9
55°	303.4	307.3	309.9	311.2	311.2	319.1	328.2	347.9	372.7	408.0	464.2
57.5°	265.5	269.4	277.2	279.9	283.8	287.7	291.6	304.7	325.6	359.6	405.4
60°	226.2	228.9	236.7	241.9	244.5	255.0	260.2	270.7	282.5	307.3	350.5
62.5°	181.8	184.4	188.3	193.5	198.8	214.5	227.5	238.0	247.2	264.2	299.5
65°	158.2	159.5	162.2	163.5	164.8	171.3	183.1	197.5	214.5	227.5	248.5
67.5°	137.3	138.6	139.9	142.5	143.8	145.2	150.4	154.3	171.3	189.6	205.3
70°	117.7	120.3	121.6	121.6	122.9	125.5	128.2	133.4	138.6	147.8	167.4
72.5°	99.4	100.7	103.3	103.3	103.3	105.9	108.5	111.2	113.8	119.0	126.8
75°	82.4	85.0	85.0	85.0	86.3	86.3	88.9	91.5	94.2	98.1	100.7
77.5°	68.0	68.0	68.0	68.0	69.3	69.3	70.6	73.2	74.5	75.8	78.5
80°	51.0	52.3	52.3	52.3	53.6	53.6	53.6	56.2	57.5	57.5	60.2
82.5°	37.9	37.9	37.9	39.2	37.9	39.2	39.2	40.5	39.2	40.5	41.8
85°	23.5	23.5	23.5	24.8	24.8	24.8	24.8	24.8	24.8	24.8	26.2
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	13.1	11.8	11.8
90°	13.6	13.3	13.1	13.0	12.7	12.1	11.6	11.0	10.4	9.5	8.5
92.5°	13.8	13.7	13.6	13.5	13.4	13.1	12.9	12.6	12.4	12.1	11.7
95°	22.5	22.6	22.7	22.8	22.5	21.9	21.4	20.8	20.2	19.4	18.6
97.5°	28.3	28.2	28.1	28.0	27.8	27.5	27.1	26.8	26.4	24.6	22.7
100°	34.3	34.0	33.8	33.7	33.2	32.3	31.4	30.5	29.6	27.6	25.6
102.5°	37.2	36.8	36.5	36.3	35.7	34.4	33.1	31.9	30.6	51.6	72.6
105°	38.5	38.0	37.5	37.3	36.7	35.4	34.1	32.9	31.6	63.1	94.5
107.5°	39.5	39.1	38.6	38.4	37.8	36.5	35.2	34.0	32.7	71.5	110.3
110°	40.1	39.6	39.1	38.9	44.7	56.2	67.7	79.2	90.7	124.0	157.3

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	40.8	40.4	40.1	39.9	64.7	114.4	164.1	213.7	263.4	265.4	267.3
115°	59.1	67.4	75.7	79.8	106.5	159.8	213.2	266.5	319.9	317.0	314.2
117.5°	198.3	228.5	258.7	273.8	282.0	298.5	315.0	331.4	347.9	345.9	344.0
120°	347.4	363.0	378.5	386.3	385.6	384.2	382.9	381.5	380.1	378.0	375.9
122.5°	414.1	414.0	413.9	413.8	413.5	412.8	412.1	411.4	410.7	408.4	406.1
125°	442.6	442.3	442.0	441.8	441.4	440.6	439.7	438.9	438.1	435.9	433.7
127.5°	469.0	468.9	468.8	468.7	468.1	467.0	465.8	464.7	463.5	461.8	460.1
130°	493.3	493.4	493.5	493.6	493.0	491.7	490.4	489.2	487.9	486.6	485.4
132.5°	516.6	516.7	516.8	516.9	516.4	515.4	514.3	513.3	512.3	511.0	509.8
135°	539.2	539.4	539.7	539.8	539.2	538.1	536.9	535.8	534.6	533.6	532.5
137.5°	560.2	560.5	560.8	561.0	560.4	559.3	558.1	557.0	555.8	554.7	553.5
140°	579.8	580.4	580.9	581.2	580.7	579.7	578.6	577.6	576.6	575.3	574.1
142.5°	598.5	599.0	599.6	599.9	599.4	598.5	597.6	596.7	595.8	594.3	592.8
145°	615.6	616.1	616.7	617.0	616.6	615.8	615.0	614.2	613.4	611.4	609.5
147.5°	630.9	631.4	631.9	632.1	631.8	631.2	630.7	630.1	629.5	627.5	625.5
150°	645.2	645.7	646.3	646.6	646.3	645.6	644.9	644.2	643.5	641.7	639.8
152.5°	657.5	658.3	659.1	659.5	659.2	658.5	657.8	657.1	656.4	654.7	652.9
155°	668.6	669.5	670.4	670.9	670.6	669.9	669.2	668.5	667.8	666.4	665.0
157.5°	679.0	679.9	680.8	681.3	680.9	680.1	679.3	678.5	677.7	676.7	675.6
160°	687.6	688.4	689.2	689.6	689.3	688.6	687.9	687.2	686.5	685.8	685.1
162.5°	695.3	696.3	697.4	697.9	697.5	696.7	695.9	695.1	694.3	693.7	693.1
165°	702.1	702.9	703.7	704.1	703.7	702.9	702.1	701.3	700.5	700.1	699.8
167.5°	707.2	708.3	709.3	709.8	709.4	708.6	707.8	707.0	706.2	705.8	705.5
170°	711.4	712.4	713.5	714.0	713.6	712.8	712.0	711.2	710.4	710.2	709.9
172.5°	714.5	715.5	716.6	717.1	716.7	715.9	715.1	714.3	713.5	713.3	713.0
175°	716.3	717.5	718.6	719.2	718.8	718.0	717.1	716.3	715.5	715.3	715.1
177.5°	717.1	718.1	719.2	719.7	719.3	718.5	717.7	716.9	716.1	716.0	715.8
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1921.0	1914.5	1914.5	1910.6	1910.6	1889.7	1889.7	1896.2	1888.3	1879.2	1866.1
5°	1970.7	1956.3	1952.4	1947.2	1930.2	1904.0	1893.6	1889.7	1874.0	1854.3	1832.1
7.5°	2017.8	1994.3	1982.5	1970.7	1948.5	1911.9	1891.0	1876.6	1853.0	1823.0	1794.2
10°	2063.6	2033.5	2003.4	1989.0	1957.7	1911.9	1881.8	1858.3	1824.3	1783.7	1743.2
12.5°	2105.4	2042.7	2037.4	2008.7	1962.9	1910.6	1864.8	1830.8	1787.7	1740.6	1693.5
15°	2142.0	2078.0	2046.6	2020.4	1960.3	1894.9	1846.5	1804.7	1747.1	1693.5	1636.0
17.5°	2160.4	2091.0	2070.1	2027.0	1965.5	1880.5	1815.1	1764.1	1701.3	1637.3	1571.9
20°	2178.7	2097.6	2063.6	2033.5	1949.8	1853.0	1779.8	1721.0	1651.7	1575.8	1503.9
22.5°	2187.8	2097.6	2057.0	2015.2	1934.1	1823.0	1736.7	1667.3	1586.3	1509.1	1422.8
25°	2172.1	2089.7	2041.4	1998.2	1906.7	1786.3	1687.0	1608.5	1522.2	1434.6	1347.0
27.5°	2132.9	2071.4	2015.2	1970.7	1868.7	1739.3	1634.7	1545.7	1456.8	1358.7	1269.8
30°	2059.7	2032.2	1987.7	1938.0	1826.9	1697.4	1573.2	1481.6	1383.6	1285.5	1192.6
32.5°	1945.9	1969.4	1940.7	1897.5	1777.2	1639.9	1507.8	1415.0	1307.7	1201.8	1116.8
35°	1807.3	1891.0	1875.3	1845.2	1724.9	1578.4	1446.3	1333.9	1226.6	1119.4	1034.4
37.5°	1655.6	1782.4	1795.5	1777.2	1664.7	1515.6	1370.5	1260.6	1150.8	1042.3	955.9
40°	1447.6	1642.5	1684.3	1692.2	1602.0	1439.8	1288.1	1180.9	1072.3	966.4	861.8
42.5°	1256.7	1502.6	1554.9	1587.6	1522.2	1365.3	1212.3	1093.3	986.0	890.6	785.9
45°	1077.6	1333.9	1418.9	1460.7	1432.0	1280.3	1122.0	1010.9	912.8	825.2	724.5
47.5°	893.2	1150.8	1269.8	1336.5	1336.5	1193.9	1035.7	925.9	831.7	757.2	668.2
50°	770.2	984.7	1107.6	1195.3	1218.8	1106.3	957.3	850.0	761.1	680.0	612.0
52.5°	656.5	848.7	950.7	1042.3	1110.3	1012.2	869.6	772.9	685.2	609.4	555.8
55°	567.6	711.4	804.2	904.9	980.8	916.7	784.6	690.5	614.6	551.9	506.1
57.5°	482.5	608.1	683.9	772.9	853.9	805.6	699.6	618.6	551.9	496.9	456.4
60°	410.6	512.6	571.5	640.8	741.5	707.5	619.9	545.3	491.7	442.0	408.0
62.5°	349.2	430.2	479.9	529.6	621.2	605.5	537.5	479.9	434.2	392.3	363.5
65°	286.4	353.1	392.3	435.5	508.7	515.2	460.3	419.8	377.9	341.3	315.2
67.5°	231.5	283.8	319.1	355.7	414.5	432.9	394.9	360.9	325.6	295.5	272.0
70°	187.0	223.6	249.8	278.5	326.9	349.2	329.5	306.0	277.2	252.4	231.5
72.5°	147.8	171.3	187.0	209.2	248.5	270.7	269.4	248.5	227.5	210.5	193.5
75°	108.5	126.8	139.9	154.3	185.7	206.6	211.9	202.7	181.8	168.7	155.6
77.5°	82.4	92.8	99.4	109.8	132.1	150.4	158.2	155.6	141.2	130.8	121.6
80°	62.8	65.4	68.0	71.9	90.2	107.2	112.5	111.2	103.3	99.4	88.9
82.5°	44.5	45.8	47.1	48.4	54.9	69.3	74.5	77.2	70.6	66.7	57.5
85°	26.2	27.5	27.5	30.1	31.4	35.3	44.5	44.5	43.2	37.9	36.6
87.5°	13.1	13.1	11.8	11.8	13.1	14.4	17.0	19.6	17.0	15.7	14.4
90°	7.6	6.7	6.2	5.6	4.3	3.0	1.8	0.5	1.8	3.0	4.3
92.5°	11.4	11.1	10.9	11.1	11.6	12.1	12.5	13.0	12.5	12.1	11.6
95°	17.8	17.0	16.6	18.5	22.3	26.1	29.9	33.7	29.9	26.1	22.3
97.5°	20.9	19.0	18.1	22.8	32.3	41.8	51.2	60.7	51.2	41.8	32.3
100°	23.7	21.7	20.7	28.6	44.4	60.2	76.0	91.8	76.0	60.2	44.4
102.5°	93.5	114.5	125.0	125.1	125.3	125.6	125.8	126.0	125.8	125.6	125.3
105°	126.0	157.5	173.2	171.5	168.0	164.5	161.1	157.6	161.1	164.5	168.0
107.5°	149.2	188.0	207.4	206.0	203.1	200.2	197.3	194.4	197.3	200.2	203.1
110°	190.6	223.9	240.6	239.4	237.0	234.5	232.1	229.7	232.1	234.5	237.0

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	269.3	271.2	272.2	271.2	269.1	267.0	265.0	262.9	265.0	267.0	269.1
115°	311.3	308.4	307.0	306.0	304.0	302.1	300.1	298.1	300.1	302.1	304.0
117.5°	342.0	340.1	339.1	337.9	335.6	333.3	331.0	328.7	331.0	333.3	335.6
120°	373.8	371.7	370.7	369.8	368.1	366.4	364.7	363.0	364.7	366.4	368.1
122.5°	403.8	401.5	400.3	399.4	397.5	395.7	393.8	392.0	393.8	395.7	397.5
125°	431.6	429.4	428.3	427.5	426.0	424.5	423.0	421.5	423.0	424.5	426.0
127.5°	458.4	456.7	455.8	455.0	453.4	451.7	450.1	448.5	450.1	451.7	453.4
130°	484.1	482.8	482.2	481.3	479.4	477.6	475.7	473.9	475.7	477.6	479.4
132.5°	508.5	507.2	506.6	505.8	504.3	502.8	501.3	499.8	501.3	502.8	504.3
135°	531.5	530.4	529.9	529.0	527.1	525.3	523.4	521.6	523.4	525.3	527.1
137.5°	552.4	551.3	550.7	550.0	548.6	547.2	545.8	544.4	545.8	547.2	548.6
140°	572.8	571.5	570.9	570.4	569.5	568.6	567.6	566.7	567.6	568.6	569.5
142.5°	591.3	589.8	589.0	588.6	587.8	587.0	586.2	585.4	586.2	587.0	587.8
145°	607.5	605.6	604.6	604.7	604.8	604.9	605.0	605.1	605.0	604.9	604.8
147.5°	623.6	621.6	620.6	620.8	621.1	621.5	621.8	622.2	621.8	621.5	621.1
150°	638.0	636.1	635.2	635.6	636.4	637.2	638.0	638.8	638.0	637.2	636.4
152.5°	651.2	649.5	648.6	649.1	650.0	650.9	651.9	652.8	651.9	650.9	650.0
155°	663.7	662.3	661.6	662.1	663.2	664.2	665.3	666.3	665.3	664.2	663.2
157.5°	674.6	673.5	673.0	673.5	674.4	675.3	676.3	677.2	676.3	675.3	674.4
160°	684.4	683.7	683.4	683.7	684.4	685.1	685.8	686.5	685.8	685.1	684.4
162.5°	692.6	692.0	691.7	692.0	692.7	693.4	694.1	694.8	694.1	693.4	692.7
165°	699.4	699.1	698.9	699.3	700.0	700.7	701.4	702.1	701.4	700.7	700.0
167.5°	705.1	704.8	704.6	705.0	705.7	706.4	707.1	707.8	707.1	706.4	705.7
170°	709.7	709.4	709.3	709.6	710.3	711.0	711.7	712.4	711.7	711.0	710.3
172.5°	712.8	712.5	712.4	712.7	713.4	714.1	714.8	715.5	714.8	714.1	713.4
175°	714.8	714.6	714.5	714.9	715.7	716.5	717.3	718.1	717.3	716.5	715.7
177.5°	715.7	715.6	715.5	715.9	716.7	717.6	718.4	719.2	718.4	717.6	716.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1860.9	1862.2	1866.1	1854.3	1836.0	1828.2	1804.7	1800.7	1796.8	1796.8	1800.7
5°	1819.0	1813.8	1815.1	1792.9	1766.7	1751.0	1718.3	1723.6	1706.6	1696.1	1698.7
7.5°	1773.3	1758.9	1757.6	1728.8	1696.1	1667.3	1633.3	1625.5	1609.8	1591.5	1583.6
10°	1715.7	1705.3	1685.7	1653.0	1611.1	1587.6	1541.8	1514.3	1510.4	1483.0	1472.5
12.5°	1656.9	1638.6	1619.0	1573.2	1526.1	1488.2	1454.2	1424.1	1403.2	1379.6	1364.0
15°	1588.9	1566.6	1544.4	1496.0	1441.1	1403.2	1352.2	1307.7	1246.3	1197.9	1170.4
17.5°	1514.3	1489.5	1459.4	1405.8	1352.2	1299.9	1205.7	1153.4	1110.3	1081.5	1064.5
20°	1437.2	1409.7	1379.6	1326.0	1233.2	1141.6	1089.3	1048.8	1022.6	993.9	972.9
22.5°	1356.1	1327.3	1294.6	1210.9	1112.9	1048.8	1008.3	970.3	932.4	916.7	906.3
25°	1280.3	1254.1	1212.3	1098.5	1021.3	962.5	916.7	891.9	872.2	851.3	831.7
27.5°	1201.8	1153.4	1094.6	999.1	950.7	890.6	857.9	839.6	805.6	791.2	782.0
30°	1107.6	1054.0	997.8	929.8	873.6	831.7	801.6	771.6	751.9	737.6	721.9
32.5°	1012.2	961.2	925.9	855.2	813.4	770.2	741.5	723.2	694.4	685.2	678.7
35°	929.8	886.6	855.2	797.7	758.5	719.2	698.3	670.9	652.6	635.6	625.1
37.5°	848.7	825.2	792.5	744.1	702.2	670.9	642.1	632.9	608.1	598.9	588.5
40°	792.5	757.2	729.7	687.9	652.6	618.6	600.2	579.3	562.3	547.9	544.0
42.5°	724.5	698.3	682.6	636.9	600.2	580.6	558.4	534.9	521.8	510.0	495.6
45°	673.5	649.9	627.7	591.1	558.4	533.5	513.9	498.2	476.0	470.8	448.5
47.5°	619.9	596.3	579.3	542.7	512.6	489.1	474.7	453.8	435.5	423.7	413.2
50°	566.2	546.6	530.9	499.5	473.4	448.5	428.9	408.0	400.2	380.5	374.0
52.5°	515.2	502.2	485.2	455.1	428.9	408.0	387.1	370.1	358.3	347.9	340.0
55°	472.1	451.2	443.3	410.6	388.4	366.2	347.9	337.4	323.0	316.5	309.9
57.5°	423.7	411.9	398.9	374.0	349.2	328.2	315.2	299.5	291.6	283.8	278.5
60°	381.9	364.9	354.4	333.5	311.2	291.6	279.9	268.1	257.6	251.1	240.6
62.5°	333.5	320.4	313.9	291.6	273.3	255.0	244.5	232.8	224.9	213.2	200.1
65°	291.6	281.2	273.3	255.0	238.0	221.0	210.5	196.2	185.7	179.2	177.8
67.5°	255.0	247.2	235.4	218.4	201.4	188.3	176.5	164.8	163.5	160.8	160.8
70°	214.5	206.6	200.1	181.8	167.4	153.0	150.4	146.5	142.5	141.2	138.6
72.5°	179.2	172.6	164.8	149.1	134.7	130.8	128.2	125.5	121.6	120.3	119.0
75°	145.2	136.0	130.8	116.4	112.5	109.8	107.2	103.3	100.7	99.4	96.8
77.5°	111.2	102.0	102.0	94.2	91.5	87.6	85.0	82.4	81.1	78.5	78.5
80°	78.5	78.5	75.8	71.9	68.0	66.7	62.8	61.5	60.2	61.5	58.8
82.5°	57.5	52.3	52.3	49.7	47.1	45.8	43.2	43.2	41.8	41.8	41.8
85°	32.7	32.7	31.4	28.8	27.5	27.5	26.2	26.2	24.8	24.8	23.5
87.5°	13.1	11.8	13.1	11.8	11.8	10.5	10.5	10.5	9.2	10.5	9.2
90°	5.6	6.2	6.7	7.6	8.5	9.5	10.4	11.0	11.6	12.1	12.7
92.5°	11.1	10.9	11.1	11.4	11.7	12.1	12.4	12.6	12.9	13.1	13.4
95°	18.5	16.6	17.0	17.8	18.6	19.4	20.2	20.8	21.4	21.9	22.5
97.5°	22.8	18.1	19.0	20.9	22.7	24.6	26.4	26.8	27.1	27.5	27.8
100°	28.6	20.7	21.7	23.7	25.6	27.6	29.6	30.5	31.4	32.3	33.2
102.5°	125.1	125.0	114.5	93.5	72.6	51.6	30.6	31.9	33.1	34.4	35.7
105°	171.5	173.2	157.5	126.0	94.5	63.1	31.6	32.9	34.1	35.4	36.7
107.5°	206.0	207.4	188.0	149.2	110.3	71.5	32.7	34.0	35.2	36.5	37.8
110°	239.4	240.6	223.9	190.6	157.3	124.0	90.7	79.2	67.7	56.2	44.7

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	271.2	272.2	271.2	269.3	267.3	265.4	263.4	213.7	164.1	114.4	64.7
115°	306.0	307.0	308.4	311.3	314.2	317.0	319.9	266.5	213.2	159.8	106.5
117.5°	337.9	339.1	340.1	342.0	344.0	345.9	347.9	331.4	315.0	298.5	282.0
120°	369.8	370.7	371.7	373.8	375.9	378.0	380.1	381.5	382.9	384.2	385.6
122.5°	399.4	400.3	401.5	403.8	406.1	408.4	410.7	411.4	412.1	412.8	413.5
125°	427.5	428.3	429.4	431.6	433.7	435.9	438.1	438.9	439.7	440.6	441.4
127.5°	455.0	455.8	456.7	458.4	460.1	461.8	463.5	464.7	465.8	467.0	468.1
130°	481.3	482.2	482.8	484.1	485.4	486.6	487.9	489.2	490.4	491.7	493.0
132.5°	505.8	506.6	507.2	508.5	509.8	511.0	512.3	513.3	514.3	515.4	516.4
135°	529.0	529.9	530.4	531.5	532.5	533.6	534.6	535.8	536.9	538.1	539.2
137.5°	550.0	550.7	551.3	552.4	553.5	554.7	555.8	557.0	558.1	559.3	560.4
140°	570.4	570.9	571.5	572.8	574.1	575.3	576.6	577.6	578.6	579.7	580.7
142.5°	588.6	589.0	589.8	591.3	592.8	594.3	595.8	596.7	597.6	598.5	599.4
145°	604.7	604.6	605.6	607.5	609.5	611.4	613.4	614.2	615.0	615.8	616.6
147.5°	620.8	620.6	621.6	623.6	625.5	627.5	629.5	630.1	630.7	631.2	631.8
150°	635.6	635.2	636.1	638.0	639.8	641.7	643.5	644.2	644.9	645.6	646.3
152.5°	649.1	648.6	649.5	651.2	652.9	654.7	656.4	657.1	657.8	658.5	659.2
155°	662.1	661.6	662.3	663.7	665.0	666.4	667.8	668.5	669.2	669.9	670.6
157.5°	673.5	673.0	673.5	674.6	675.6	676.7	677.7	678.5	679.3	680.1	680.9
160°	683.7	683.4	683.7	684.4	685.1	685.8	686.5	687.2	687.9	688.6	689.3
162.5°	692.0	691.7	692.0	692.6	693.1	693.7	694.3	695.1	695.9	696.7	697.5
165°	699.3	698.9	699.1	699.4	699.8	700.1	700.5	701.3	702.1	702.9	703.7
167.5°	705.0	704.6	704.8	705.1	705.5	705.8	706.2	707.0	707.8	708.6	709.4
170°	709.6	709.3	709.4	709.7	709.9	710.2	710.4	711.2	712.0	712.8	713.6
172.5°	712.7	712.4	712.5	712.8	713.0	713.3	713.5	714.3	715.1	715.9	716.7
175°	714.9	714.5	714.6	714.8	715.1	715.3	715.5	716.3	717.1	718.0	718.8
177.5°	715.9	715.5	715.6	715.7	715.8	716.0	716.1	716.9	717.7	718.5	719.3
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1800.7	1798.1	1790.3	1792.9	1789.0	1789.0	1786.3	1786.3	1786.3	1792.9	1789.0
5°	1702.7	1693.5	1684.3	1680.4	1676.5	1672.6	1672.6	1671.3	1683.0	1680.4	1690.9
7.5°	1581.0	1578.4	1560.1	1560.1	1553.6	1551.0	1557.5	1558.8	1560.1	1562.7	1569.3
10°	1472.5	1466.0	1439.8	1442.4	1438.5	1433.3	1437.2	1434.6	1443.7	1446.3	1443.7
12.5°	1344.3	1332.6	1303.8	1289.4	1273.7	1261.9	1276.3	1265.9	1302.5	1313.0	1341.7
15°	1174.3	1152.1	1132.5	1132.5	1118.1	1107.6	1114.2	1125.9	1133.8	1145.6	1150.8
17.5°	1060.6	1051.4	1035.7	1026.6	1022.6	1018.7	1018.7	1023.9	1040.9	1039.6	1050.1
20°	963.8	958.6	950.7	938.9	935.0	932.4	932.4	932.4	944.2	954.6	961.2
22.5°	897.1	893.2	887.9	872.2	864.4	861.8	868.3	872.2	881.4	889.2	895.8
25°	830.4	821.2	812.1	806.9	802.9	802.9	805.6	806.9	810.8	814.7	822.6
27.5°	775.5	768.9	755.9	741.5	741.5	737.6	740.2	742.8	751.9	765.0	771.6
30°	714.0	712.7	707.5	702.2	697.0	694.4	699.6	703.6	704.9	711.4	711.4
32.5°	669.6	660.4	651.2	646.0	643.4	642.1	643.4	648.6	648.6	656.5	665.6
35°	625.1	619.9	610.7	601.6	598.9	592.4	597.6	602.9	612.0	615.9	619.9
37.5°	576.7	570.2	566.2	563.6	558.4	559.7	555.8	563.6	571.5	570.2	572.8
40°	540.1	528.3	516.5	515.2	513.9	512.6	512.6	513.9	519.2	524.4	532.2
42.5°	493.0	489.1	478.6	468.2	465.5	462.9	460.3	465.5	476.0	485.2	489.1
45°	444.6	439.4	436.8	428.9	423.7	422.4	419.8	426.3	435.5	439.4	442.0
47.5°	400.2	398.9	391.0	392.3	388.4	389.7	388.4	392.3	392.3	396.2	398.9
50°	370.1	366.2	362.2	359.6	355.7	355.7	354.4	355.7	360.9	366.2	364.9
52.5°	340.0	333.5	332.2	330.9	328.2	330.9	326.9	328.2	333.5	336.1	334.8
55°	304.7	303.4	300.8	298.2	296.9	295.5	295.5	295.5	300.8	304.7	306.0
57.5°	277.2	270.7	265.5	265.5	260.2	258.9	261.5	262.9	266.8	269.4	272.0
60°	239.3	236.7	228.9	224.9	217.1	215.8	215.8	221.0	227.5	236.7	239.3
62.5°	198.8	194.9	193.5	193.5	193.5	193.5	193.5	193.5	193.5	194.9	194.9
65°	176.5	177.8	176.5	175.2	176.5	176.5	175.2	175.2	175.2	176.5	177.8
67.5°	158.2	156.9	158.2	156.9	155.6	155.6	154.3	155.6	156.9	158.2	158.2
70°	137.3	137.3	136.0	137.3	136.0	134.7	133.4	133.4	136.0	137.3	137.3
72.5°	117.7	117.7	116.4	116.4	113.8	113.8	115.1	113.8	113.8	117.7	117.7
75°	98.1	96.8	95.5	95.5	94.2	94.2	94.2	92.8	95.5	95.5	96.8
77.5°	77.2	77.2	77.2	75.8	75.8	74.5	74.5	75.8	75.8	75.8	77.2
80°	58.8	58.8	58.8	57.5	56.2	56.2	56.2	56.2	56.2	57.5	56.2
82.5°	40.5	40.5	40.5	40.5	40.5	39.2	39.2	39.2	40.5	40.5	39.2
85°	24.8	23.5	24.8	24.8	23.5	24.8	23.5	23.5	22.2	22.2	23.5
87.5°	10.5	9.2	7.8	7.8	9.2	7.8	7.8	7.8	9.2	7.8	7.8
90°	13.0	13.1	13.3	13.6	13.8	14.0	13.8	13.6	13.3	13.1	13.0
92.5°	13.5	13.6	13.7	13.8	13.9	14.0	13.9	13.8	13.7	13.6	13.5
95°	22.8	22.7	22.6	22.5	22.4	22.3	22.4	22.5	22.6	22.7	22.8
97.5°	28.0	28.1	28.2	28.3	28.4	28.5	28.4	28.3	28.2	28.1	28.0
100°	33.7	33.8	34.0	34.3	34.5	34.7	34.5	34.3	34.0	33.8	33.7
102.5°	36.3	36.5	36.8	37.2	37.5	37.9	37.5	37.2	36.8	36.5	36.3
105°	37.3	37.5	38.0	38.5	38.9	39.4	38.9	38.5	38.0	37.5	37.3
107.5°	38.4	38.6	39.1	39.5	40.0	40.4	40.0	39.5	39.1	38.6	38.4
110°	38.9	39.1	39.6	40.1	40.5	41.0	40.5	40.1	39.6	39.1	38.9



TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	39.9	40.1	40.4	40.8	41.1	41.5	41.1	40.8	40.4	40.1	39.9
115°	79.8	75.7	67.4	59.1	50.8	42.5	50.8	59.1	67.4	75.7	79.8
117.5°	273.8	258.7	228.5	198.3	168.1	137.9	168.1	198.3	228.5	258.7	273.8
120°	386.3	378.5	363.0	347.4	331.9	316.3	331.9	347.4	363.0	378.5	386.3
122.5°	413.8	413.9	414.0	414.1	414.2	414.3	414.2	414.1	414.0	413.9	413.8
125°	441.8	442.0	442.3	442.6	443.0	443.3	443.0	442.6	442.3	442.0	441.8
127.5°	468.7	468.8	468.9	469.0	469.1	469.2	469.1	469.0	468.9	468.8	468.7
130°	493.6	493.5	493.4	493.3	493.2	493.1	493.2	493.3	493.4	493.5	493.6
132.5°	516.9	516.8	516.7	516.6	516.5	516.4	516.5	516.6	516.7	516.8	516.9
135°	539.8	539.7	539.4	539.2	538.9	538.7	538.9	539.2	539.4	539.7	539.8
137.5°	561.0	560.8	560.5	560.2	559.8	559.5	559.8	560.2	560.5	560.8	561.0
140°	581.2	580.9	580.4	579.8	579.3	578.7	579.3	579.8	580.4	580.9	581.2
142.5°	599.9	599.6	599.0	598.5	597.9	597.3	597.9	598.5	599.0	599.6	599.9
145°	617.0	616.7	616.1	615.6	615.0	614.4	615.0	615.6	616.1	616.7	617.0
147.5°	632.1	631.9	631.4	630.9	630.5	630.0	630.5	630.9	631.4	631.9	632.1
150°	646.6	646.3	645.7	645.2	644.6	644.0	644.6	645.2	645.7	646.3	646.6
152.5°	659.5	659.1	658.3	657.5	656.7	655.9	656.7	657.5	658.3	659.1	659.5
155°	670.9	670.4	669.5	668.6	667.7	666.8	667.7	668.6	669.5	670.4	670.9
157.5°	681.3	680.8	679.9	679.0	678.1	677.2	678.1	679.0	679.9	680.8	681.3
160°	689.6	689.2	688.4	687.6	686.8	686.0	686.8	687.6	688.4	689.2	689.6
162.5°	697.9	697.4	696.3	695.3	694.2	693.2	694.2	695.3	696.3	697.4	697.9
165°	704.1	703.7	702.9	702.1	701.3	700.5	701.3	702.1	702.9	703.7	704.1
167.5°	709.8	709.3	708.3	707.2	706.2	705.2	706.2	707.2	708.3	709.3	709.8
170°	714.0	713.5	712.4	711.4	710.3	709.3	710.3	711.4	712.4	713.5	714.0
172.5°	717.1	716.6	715.5	714.5	713.4	712.4	713.4	714.5	715.5	716.6	717.1
175°	719.2	718.6	717.5	716.3	715.2	714.0	715.2	716.3	717.5	718.6	719.2
177.5°	719.7	719.2	718.1	717.1	716.0	715.0	716.0	717.1	718.1	719.2	719.7
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8	1881.8
2.5°	1792.9	1799.4	1796.8	1782.4	1796.8	1800.7	1808.6	1816.4	1821.7	1829.5	1836.0
5°	1680.4	1693.5	1701.3	1693.5	1719.7	1723.6	1741.9	1752.3	1768.0	1781.1	1791.6
7.5°	1574.5	1585.0	1600.6	1603.3	1619.0	1637.3	1663.4	1689.6	1714.4	1727.5	1739.3
10°	1460.7	1479.0	1502.6	1497.3	1520.9	1549.6	1577.1	1619.0	1639.9	1663.4	1684.3
12.5°	1347.0	1358.7	1390.1	1400.6	1434.6	1456.8	1494.7	1520.9	1573.2	1600.6	1619.0
15°	1148.2	1196.6	1235.8	1282.9	1327.3	1369.2	1403.2	1450.3	1496.0	1517.0	1547.0
17.5°	1057.9	1080.2	1103.7	1127.3	1184.8	1259.3	1319.5	1370.5	1409.7	1437.2	1472.5
20°	963.8	986.0	1012.2	1034.4	1069.7	1123.3	1197.9	1285.5	1332.6	1361.3	1395.3
22.5°	897.1	918.0	935.0	954.6	982.1	1021.3	1077.6	1186.1	1248.9	1284.2	1314.3
25°	825.2	851.3	869.6	884.0	906.3	949.4	995.2	1056.6	1169.1	1196.6	1238.4
27.5°	775.5	783.3	804.2	826.5	848.7	872.2	919.3	971.6	1047.5	1107.6	1158.6
30°	716.6	736.2	755.9	765.0	784.6	818.6	847.4	903.6	962.5	1009.6	1071.0
32.5°	672.2	683.9	697.0	719.2	737.6	761.1	789.9	836.9	886.6	916.7	963.8
35°	622.5	630.3	657.8	666.9	685.2	708.8	737.6	774.2	827.8	851.3	885.3
37.5°	575.4	593.7	601.6	622.5	639.5	663.0	683.9	725.8	761.1	788.6	819.9
40°	538.8	546.6	561.0	579.3	593.7	612.0	638.2	668.2	706.2	728.4	755.9
42.5°	494.3	500.9	519.2	529.6	553.2	570.2	585.9	622.5	656.5	673.5	700.9
45°	445.9	461.6	473.4	494.3	507.4	528.3	547.9	574.1	605.5	625.1	640.8
47.5°	404.1	419.8	431.5	451.2	472.1	481.2	502.2	529.6	558.4	574.1	596.3
50°	370.1	375.3	397.5	406.7	428.9	447.2	461.6	485.2	516.5	525.7	544.0
52.5°	337.4	341.3	355.7	367.5	387.1	402.8	421.1	443.3	469.5	483.9	498.2
55°	308.6	311.2	317.8	330.9	343.9	363.5	380.5	401.5	423.7	439.4	452.5
57.5°	275.9	281.2	286.4	294.2	307.3	325.6	343.9	363.5	381.9	392.3	409.3
60°	238.0	245.9	255.0	264.2	273.3	286.4	307.3	325.6	342.6	351.8	364.9
62.5°	197.5	213.2	221.0	231.5	239.3	251.1	266.8	287.7	299.5	311.2	321.7
65°	177.8	179.2	180.5	190.9	205.3	217.1	231.5	247.2	265.5	273.3	281.2
67.5°	158.2	159.5	162.2	163.5	168.7	181.8	197.5	214.5	228.9	234.1	241.9
70°	138.6	138.6	143.8	145.2	146.5	147.8	160.8	177.8	190.9	197.5	206.6
72.5°	117.7	119.0	121.6	122.9	125.5	128.2	132.1	141.2	156.9	163.5	173.9
75°	96.8	98.1	99.4	100.7	104.6	105.9	109.8	115.1	121.6	129.5	136.0
77.5°	77.2	77.2	78.5	81.1	83.7	85.0	88.9	91.5	94.2	98.1	103.3
80°	57.5	58.8	58.8	61.5	61.5	62.8	64.1	68.0	70.6	73.2	75.8
82.5°	39.2	41.8	41.8	41.8	43.2	44.5	45.8	45.8	48.4	49.7	53.6
85°	23.5	24.8	24.8	24.8	23.5	26.2	26.2	27.5	27.5	27.5	28.8
87.5°	9.2	7.8	9.2	9.2	9.2	10.5	9.2	9.2	10.5	11.8	11.8
90°	12.7	12.1	11.6	11.0	10.4	9.5	8.5	7.6	6.7	6.2	5.6
92.5°	13.4	13.1	12.9	12.6	12.4	12.1	11.7	11.4	11.1	10.9	11.1
95°	22.5	21.9	21.4	20.8	20.2	19.4	18.6	17.8	17.0	16.6	18.5
97.5°	27.8	27.5	27.1	26.8	26.4	24.6	22.7	20.9	19.0	18.1	22.8
100°	33.2	32.3	31.4	30.5	29.6	27.6	25.6	23.7	21.7	20.7	28.6
102.5°	35.7	34.4	33.1	31.9	30.6	51.6	72.6	93.5	114.5	125.0	125.1
105°	36.7	35.4	34.1	32.9	31.6	63.1	94.5	126.0	157.5	173.2	171.5
107.5°	37.8	36.5	35.2	34.0	32.7	71.5	110.3	149.2	188.0	207.4	206.0
110°	44.7	56.2	67.7	79.2	90.7	124.0	157.3	190.6	223.9	240.6	239.4

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	64.7	114.4	164.1	213.7	263.4	265.4	267.3	269.3	271.2	272.2	271.2
115°	106.5	159.8	213.2	266.5	319.9	317.0	314.2	311.3	308.4	307.0	306.0
117.5°	282.0	298.5	315.0	331.4	347.9	345.9	344.0	342.0	340.1	339.1	337.9
120°	385.6	384.2	382.9	381.5	380.1	378.0	375.9	373.8	371.7	370.7	369.8
122.5°	413.5	412.8	412.1	411.4	410.7	408.4	406.1	403.8	401.5	400.3	399.4
125°	441.4	440.6	439.7	438.9	438.1	435.9	433.7	431.6	429.4	428.3	427.5
127.5°	468.1	467.0	465.8	464.7	463.5	461.8	460.1	458.4	456.7	455.8	455.0
130°	493.0	491.7	490.4	489.2	487.9	486.6	485.4	484.1	482.8	482.2	481.3
132.5°	516.4	515.4	514.3	513.3	512.3	511.0	509.8	508.5	507.2	506.6	505.8
135°	539.2	538.1	536.9	535.8	534.6	533.6	532.5	531.5	530.4	529.9	529.0
137.5°	560.4	559.3	558.1	557.0	555.8	554.7	553.5	552.4	551.3	550.7	550.0
140°	580.7	579.7	578.6	577.6	576.6	575.3	574.1	572.8	571.5	570.9	570.4
142.5°	599.4	598.5	597.6	596.7	595.8	594.3	592.8	591.3	589.8	589.0	588.6
145°	616.6	615.8	615.0	614.2	613.4	611.4	609.5	607.5	605.6	604.6	604.7
147.5°	631.8	631.2	630.7	630.1	629.5	627.5	625.5	623.6	621.6	620.6	620.8
150°	646.3	645.6	644.9	644.2	643.5	641.7	639.8	638.0	636.1	635.2	635.6
152.5°	659.2	658.5	657.8	657.1	656.4	654.7	652.9	651.2	649.5	648.6	649.1
155°	670.6	669.9	669.2	668.5	667.8	666.4	665.0	663.7	662.3	661.6	662.1
157.5°	680.9	680.1	679.3	678.5	677.7	676.7	675.6	674.6	673.5	673.0	673.5
160°	689.3	688.6	687.9	687.2	686.5	685.8	685.1	684.4	683.7	683.4	683.7
162.5°	697.5	696.7	695.9	695.1	694.3	693.7	693.1	692.6	692.0	691.7	692.0
165°	703.7	702.9	702.1	701.3	700.5	700.1	699.8	699.4	699.1	698.9	699.3
167.5°	709.4	708.6	707.8	707.0	706.2	705.8	705.5	705.1	704.8	704.6	705.0
170°	713.6	712.8	712.0	711.2	710.4	710.2	709.9	709.7	709.4	709.3	709.6
172.5°	716.7	715.9	715.1	714.3	713.5	713.3	713.0	712.8	712.5	712.4	712.7
175°	718.8	718.0	717.1	716.3	715.5	715.3	715.1	714.8	714.6	714.5	714.9
177.5°	719.3	718.5	717.7	716.9	716.1	716.0	715.8	715.7	715.6	715.5	715.9
180°	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6	716.6

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1881.8	1881.8	1881.8	1881.8
2.5°	1847.8	1843.9	1867.4	1893.6
5°	1809.9	1816.4	1846.5	1883.1
7.5°	1770.7	1785.0	1820.3	1868.7
10°	1715.7	1741.9	1795.5	1845.2
12.5°	1662.1	1697.4	1748.4	1807.3
15°	1602.0	1641.2	1704.0	1774.6
17.5°	1535.3	1579.7	1653.0	1730.1
20°	1464.6	1523.5	1600.6	1684.3
22.5°	1386.2	1456.8	1536.6	1629.4
25°	1310.3	1387.5	1467.3	1574.5
27.5°	1235.8	1311.6	1400.6	1509.1
30°	1161.3	1230.6	1326.0	1442.4
32.5°	1081.5	1153.4	1254.1	1373.1
35°	1008.3	1080.2	1174.3	1292.0
37.5°	929.8	1006.9	1097.2	1218.8
40°	838.2	928.5	1016.1	1132.5
42.5°	762.4	857.9	942.9	1052.7
45°	702.2	792.5	863.1	970.3
47.5°	646.0	719.2	791.2	890.6
50°	592.4	648.6	723.2	812.1
52.5°	537.5	585.9	649.9	733.6
55°	487.8	533.5	591.1	655.2
57.5°	442.0	474.7	532.2	589.8
60°	391.0	425.0	469.5	517.9
62.5°	347.9	374.0	415.9	456.4
65°	302.1	326.9	358.3	396.2
67.5°	260.2	282.5	307.3	337.4
70°	222.3	239.3	257.6	283.8
72.5°	181.8	200.1	217.1	238.0
75°	149.1	156.9	171.3	185.7
77.5°	115.1	125.5	133.4	145.2
80°	82.4	91.5	94.2	103.3
82.5°	54.9	60.2	65.4	68.0
85°	31.4	34.0	39.2	40.5
87.5°	11.8	13.1	15.7	18.3
90°	4.3	3.0	1.8	0.5
92.5°	11.6	12.1	12.5	13.0
95°	22.3	26.1	29.9	33.7
97.5°	32.3	41.8	51.2	60.7
100°	44.4	60.2	76.0	91.8
102.5°	125.3	125.6	125.8	126.0
105°	168.0	164.5	161.1	157.6
107.5°	203.1	200.2	197.3	194.4
110°	237.0	234.5	232.1	229.7

TEST NUMBER: P1000145

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	269.1	267.0	265.0	262.9
115°	304.0	302.1	300.1	298.1
117.5°	335.6	333.3	331.0	328.7
120°	368.1	366.4	364.7	363.0
122.5°	397.5	395.7	393.8	392.0
125°	426.0	424.5	423.0	421.5
127.5°	453.4	451.7	450.1	448.5
130°	479.4	477.6	475.7	473.9
132.5°	504.3	502.8	501.3	499.8
135°	527.1	525.3	523.4	521.6
137.5°	548.6	547.2	545.8	544.4
140°	569.5	568.6	567.6	566.7
142.5°	587.8	587.0	586.2	585.4
145°	604.8	604.9	605.0	605.1
147.5°	621.1	621.5	621.8	622.2
150°	636.4	637.2	638.0	638.8
152.5°	650.0	650.9	651.9	652.8
155°	663.2	664.2	665.3	666.3
157.5°	674.4	675.3	676.3	677.2
160°	684.4	685.1	685.8	686.5
162.5°	692.7	693.4	694.1	694.8
165°	700.0	700.7	701.4	702.1
167.5°	705.7	706.4	707.1	707.8
170°	710.3	711.0	711.7	712.4
172.5°	713.4	714.1	714.8	715.5
175°	715.7	716.5	717.3	718.1
177.5°	716.7	717.6	718.4	719.2
180°	716.6	716.6	716.6	716.6

(END OF REPORT)