

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: P1000105

Luminaire Tested: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000105
REPORT IS A COMBINATION OF REPORTS P988664 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D330UB2750-4F0-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

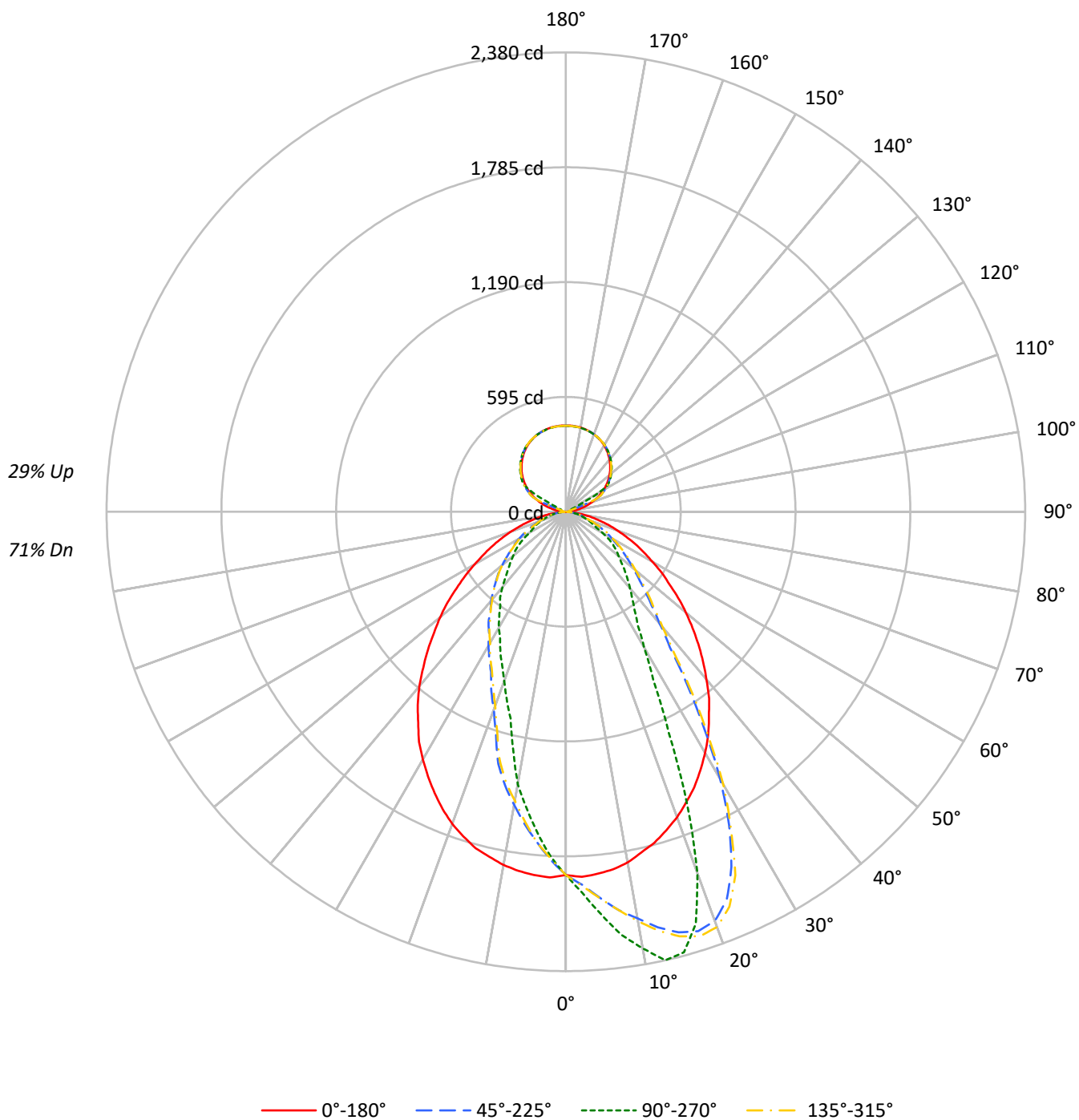
Lumens per Lamp: N/A
Luminaire Lumens: 4559.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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

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Luminous Intensity Polar Plot



TEST NUMBER: P1000105

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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71		
1	104	100	96	93	98	95	91	89	85	83	81	77	75	73	69	67	66	62		
2	95	88	83	78	90	84	79	75	76	72	69	69	66	63	62	60	58	54		
3	88	79	72	66	83	75	69	64	68	63	59	62	58	55	56	53	50	47		
4	81	71	63	57	77	68	61	56	62	56	52	56	52	48	51	47	45	42		
5	75	64	56	50	71	61	54	49	56	50	46	51	46	43	47	43	40	37		
6	70	58	50	45	66	56	49	43	51	45	41	47	42	38	43	39	36	33		
7	65	53	45	40	62	51	44	39	47	41	37	43	38	35	40	36	32	30		
8	61	49	41	36	58	47	40	35	43	37	33	40	35	31	37	33	30	27		
9	57	45	38	33	54	43	36	32	40	34	30	37	32	29	34	30	27	25		
10	53	42	35	30	51	40	34	29	37	32	28	35	30	26	32	28	25	23		

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	3.9
10°-20°	498.2	10.9
20°-30°	641.2	14.1
30°-40°	608.3	13.3
40°-50°	521.3	11.4
50°-60°	397.0	8.7
60°-70°	250.4	5.5
70°-80°	124.9	2.7
80°-90°	32.9	0.7
90°-100°	14.7	0.3
100°-110°	54.8	1.2
110°-120°	145.3	3.2
120°-130°	240.9	5.3
130°-140°	255.9	5.6
140°-150°	237.8	5.2
150°-160°	191.2	4.2
160°-170°	123.2	2.7
170°-180°	42.4	0.9
0°-30°	1317.9	28.9
0°-40°	1926.2	42.3
0°-60°	2844.6	62.4
0°-90°	3252.8	71.3
90°-120°	214.7	4.7
90°-150°	949.4	20.8
90°-180°	1306.0	28.6
0°-180°	4559.0	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	9	0	9	0	4
95°	21	14	21	14	21	25
105°	98	24	98	24	98	105
115°	185	26	185	26	185	183
125°	262	276	262	276	262	234
135°	324	335	324	335	324	251
145°	376	382	376	382	376	235
155°	414	415	414	415	414	191
165°	436	436	436	436	436	123
175°	446	444	446	444	446	42
180°	446	446	446	446	446	

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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°	0.3	1.1	1.9	2.7	3.5	3.9	4.2	4.7	5.3	5.8	6.4
92.5°	8.1	7.8	7.5	7.2	6.9	6.8	6.9	7.1	7.3	7.5	7.7
95°	21.0	18.6	16.2	13.9	11.5	10.3	10.6	11.1	11.6	12.1	12.6
97.5°	37.7	31.8	26.0	20.1	14.2	11.3	11.9	13.0	14.1	15.3	16.4
100°	57.1	47.3	37.5	27.6	17.8	12.9	13.5	14.7	16.0	17.2	18.4
102.5°	78.3	78.2	78.0	77.9	77.8	77.7	71.2	58.1	45.1	32.0	19.0
105°	98.0	100.2	102.3	104.5	106.6	107.7	97.9	78.4	58.8	39.3	19.7
107.5°	120.9	122.7	124.5	126.3	128.1	129.0	116.9	92.8	68.6	44.5	20.3
110°	142.8	144.3	145.8	147.3	148.8	149.6	139.2	118.5	97.8	77.1	56.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	163.5	164.8	166.1	167.4	168.7	169.3	168.7	167.5	166.2	165.0	163.8
115°	185.4	186.6	187.8	189.1	190.3	190.9	191.8	193.6	195.3	197.1	198.9
117.5°	204.4	205.8	207.2	208.7	210.1	210.8	211.4	212.6	213.9	215.1	216.3
120°	225.7	226.8	227.8	228.9	230.0	230.5	231.1	232.4	233.7	235.0	236.3
122.5°	243.7	244.9	246.0	247.2	248.3	248.9	249.6	251.0	252.5	253.9	255.3
125°	262.1	263.0	264.0	264.9	265.8	266.3	267.0	268.3	269.7	271.0	272.4
127.5°	278.9	279.9	280.9	281.9	282.9	283.4	283.9	285.0	286.1	287.1	288.2
130°	294.7	295.8	297.0	298.1	299.2	299.8	300.2	301.0	301.8	302.6	303.4
132.5°	310.8	311.7	312.7	313.6	314.5	315.0	315.4	316.2	316.9	317.7	318.5
135°	324.3	325.5	326.6	327.8	328.9	329.5	329.8	330.5	331.1	331.8	332.4
137.5°	338.5	339.4	340.2	341.1	342.0	342.4	342.8	343.5	344.2	344.9	345.6
140°	352.4	353.0	353.6	354.1	354.7	355.0	355.4	356.2	356.9	357.7	358.5
142.5°	364.0	364.5	365.0	365.5	366.0	366.2	366.7	367.6	368.5	369.5	370.4
145°	376.2	376.1	376.1	376.0	375.9	375.9	376.5	377.7	379.0	380.2	381.4
147.5°	386.9	386.7	386.5	386.2	386.0	385.9	386.5	387.7	389.0	390.2	391.4
150°	397.2	396.7	396.2	395.7	395.2	394.9	395.5	396.6	397.8	398.9	400.1
152.5°	405.9	405.3	404.7	404.2	403.6	403.3	403.8	404.9	406.0	407.1	408.2
155°	414.3	413.7	413.0	412.4	411.7	411.4	411.8	412.7	413.6	414.4	415.3
157.5°	421.1	420.5	419.9	419.4	418.8	418.5	418.8	419.5	420.1	420.8	421.4
160°	426.9	426.5	426.0	425.6	425.1	424.9	425.1	425.6	426.0	426.5	426.9
162.5°	432.0	431.6	431.2	430.7	430.3	430.1	430.3	430.6	431.0	431.3	431.7
165°	436.5	436.1	435.7	435.2	434.8	434.6	434.7	434.9	435.2	435.4	435.6
167.5°	440.1	439.7	439.2	438.8	438.3	438.1	438.2	438.4	438.7	438.9	439.1
170°	443.0	442.6	442.1	441.7	441.2	441.0	441.1	441.2	441.4	441.5	441.7
172.5°	444.9	444.5	444.1	443.6	443.2	443.0	443.1	443.2	443.3	443.5	443.6
175°	446.5	446.0	445.5	445.0	444.5	444.3	444.4	444.5	444.6	444.8	444.9
177.5°	447.2	446.7	446.2	445.7	445.2	444.9	444.9	445.0	445.1	445.1	445.2
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

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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°	6.8	7.2	7.5	7.9	8.1	8.2	8.3	8.4	8.6	8.7	8.6
92.5°	7.9	8.0	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.6
95°	13.0	13.3	13.7	14.0	14.2	14.2	14.1	14.0	14.0	13.9	14.0
97.5°	16.6	16.8	17.1	17.3	17.4	17.4	17.5	17.6	17.6	17.7	17.6
100°	19.0	19.6	20.1	20.7	21.0	21.1	21.2	21.3	21.5	21.6	21.5
102.5°	19.8	20.6	21.4	22.2	22.6	22.7	22.9	23.1	23.3	23.5	23.3
105°	20.5	21.3	22.0	22.8	23.2	23.3	23.6	23.9	24.2	24.5	24.2
107.5°	21.1	21.9	22.7	23.5	23.9	24.0	24.3	24.6	24.8	25.1	24.8
110°	49.2	42.1	34.9	27.8	24.2	24.3	24.6	24.9	25.2	25.5	25.2

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	132.9	102.0	71.1	40.2	24.8	24.9	25.1	25.4	25.6	25.8	25.6
115°	165.7	132.5	99.4	66.2	49.6	47.0	41.9	36.7	31.6	26.4	31.6
117.5°	206.1	195.8	185.6	175.3	170.2	160.8	142.1	123.3	104.6	85.8	104.6
120°	237.2	238.0	238.9	239.8	240.2	235.4	225.7	216.0	206.4	196.7	206.4
122.5°	255.7	256.2	256.6	257.1	257.3	257.3	257.4	257.5	257.5	257.6	257.5
125°	272.9	273.4	273.9	274.4	274.7	274.8	275.0	275.3	275.5	275.7	275.5
127.5°	288.9	289.6	290.3	291.0	291.4	291.4	291.5	291.6	291.7	291.8	291.7
130°	304.2	305.0	305.7	306.5	306.9	306.9	306.8	306.7	306.7	306.6	306.7
132.5°	319.1	319.8	320.4	321.1	321.4	321.4	321.3	321.2	321.2	321.1	321.2
135°	333.1	333.8	334.5	335.2	335.6	335.5	335.4	335.3	335.1	335.0	335.1
137.5°	346.3	347.0	347.7	348.4	348.8	348.7	348.5	348.3	348.1	347.9	348.1
140°	359.1	359.8	360.4	361.1	361.4	361.2	360.9	360.5	360.2	359.8	360.2
142.5°	371.0	371.6	372.1	372.7	373.0	372.8	372.5	372.1	371.8	371.4	371.8
145°	381.9	382.4	382.9	383.4	383.7	383.5	383.1	382.8	382.4	382.0	382.4
147.5°	391.8	392.1	392.5	392.8	393.0	392.9	392.6	392.3	392.0	391.7	392.0
150°	400.5	400.9	401.4	401.8	402.0	401.8	401.5	401.1	400.8	400.4	400.8
152.5°	408.6	409.0	409.5	409.9	410.1	409.8	409.3	408.8	408.3	407.8	408.3
155°	415.7	416.1	416.6	417.0	417.2	416.9	416.3	415.8	415.2	414.6	415.2
157.5°	421.9	422.4	422.9	423.4	423.6	423.3	422.8	422.2	421.7	421.1	421.7
160°	427.3	427.7	428.2	428.6	428.8	428.5	428.0	427.5	427.0	426.5	427.0
162.5°	432.2	432.7	433.2	433.7	434.0	433.7	433.0	432.3	431.7	431.0	431.7
165°	436.1	436.6	437.1	437.6	437.8	437.6	437.1	436.6	436.1	435.6	436.1
167.5°	439.6	440.1	440.6	441.1	441.4	441.1	440.4	439.8	439.1	438.5	439.1
170°	442.2	442.7	443.2	443.7	443.9	443.6	442.9	442.3	441.6	441.0	441.6
172.5°	444.1	444.6	445.1	445.6	445.9	445.6	444.9	444.3	443.6	443.0	443.6
175°	445.4	445.9	446.4	446.9	447.2	446.8	446.1	445.4	444.6	443.9	444.6
177.5°	445.7	446.2	446.7	447.2	447.5	447.2	446.5	445.9	445.2	444.6	445.2
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	8.4	8.3	8.2	8.1	7.9	7.5	7.2	6.8	6.4	5.8	5.3
92.5°	8.6	8.5	8.4	8.4	8.3	8.2	8.0	7.9	7.7	7.5	7.3
95°	14.0	14.1	14.2	14.2	14.0	13.7	13.3	13.0	12.6	12.1	11.6
97.5°	17.6	17.5	17.4	17.4	17.3	17.1	16.8	16.6	16.4	15.3	14.1
100°	21.3	21.2	21.1	21.0	20.7	20.1	19.6	19.0	18.4	17.2	16.0
102.5°	23.1	22.9	22.7	22.6	22.2	21.4	20.6	19.8	19.0	32.0	45.1
105°	23.9	23.6	23.3	23.2	22.8	22.0	21.3	20.5	19.7	39.3	58.8
107.5°	24.6	24.3	24.0	23.9	23.5	22.7	21.9	21.1	20.3	44.5	68.6
110°	24.9	24.6	24.3	24.2	27.8	34.9	42.1	49.2	56.4	77.1	97.8

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	25.4	25.1	24.9	24.8	40.2	71.1	102.0	132.9	163.8	165.0	166.2
115°	36.7	41.9	47.0	49.6	66.2	99.4	132.5	165.7	198.9	197.1	195.3
117.5°	123.3	142.1	160.8	170.2	175.3	185.6	195.8	206.1	216.3	215.1	213.9
120°	216.0	225.7	235.4	240.2	239.8	238.9	238.0	237.2	236.3	235.0	233.7
122.5°	257.5	257.4	257.3	257.3	257.1	256.6	256.2	255.7	255.3	253.9	252.5
125°	275.3	275.0	274.8	274.7	274.4	273.9	273.4	272.9	272.4	271.0	269.7
127.5°	291.6	291.5	291.4	291.4	291.0	290.3	289.6	288.9	288.2	287.1	286.1
130°	306.7	306.8	306.9	306.9	306.5	305.7	305.0	304.2	303.4	302.6	301.8
132.5°	321.2	321.3	321.4	321.4	321.1	320.4	319.8	319.1	318.5	317.7	316.9
135°	335.3	335.4	335.5	335.6	335.2	334.5	333.8	333.1	332.4	331.8	331.1
137.5°	348.3	348.5	348.7	348.8	348.4	347.7	347.0	346.3	345.6	344.9	344.2
140°	360.5	360.9	361.2	361.4	361.1	360.4	359.8	359.1	358.5	357.7	356.9
142.5°	372.1	372.5	372.8	373.0	372.7	372.1	371.6	371.0	370.4	369.5	368.5
145°	382.8	383.1	383.5	383.7	383.4	382.9	382.4	381.9	381.4	380.2	379.0
147.5°	392.3	392.6	392.9	393.0	392.8	392.5	392.1	391.8	391.4	390.2	389.0
150°	401.1	401.5	401.8	402.0	401.8	401.4	400.9	400.5	400.1	398.9	397.8
152.5°	408.8	409.3	409.8	410.1	409.9	409.5	409.0	408.6	408.2	407.1	406.0
155°	415.8	416.3	416.9	417.2	417.0	416.6	416.1	415.7	415.3	414.4	413.6
157.5°	422.2	422.8	423.3	423.6	423.4	422.9	422.4	421.9	421.4	420.8	420.1
160°	427.5	428.0	428.5	428.8	428.6	428.2	427.7	427.3	426.9	426.5	426.0
162.5°	432.3	433.0	433.7	434.0	433.7	433.2	432.7	432.2	431.7	431.3	431.0
165°	436.6	437.1	437.6	437.8	437.6	437.1	436.6	436.1	435.6	435.4	435.2
167.5°	439.8	440.4	441.1	441.4	441.1	440.6	440.1	439.6	439.1	438.9	438.7
170°	442.3	442.9	443.6	443.9	443.7	443.2	442.7	442.2	441.7	441.5	441.4
172.5°	444.3	444.9	445.6	445.9	445.6	445.1	444.6	444.1	443.6	443.5	443.3
175°	445.4	446.1	446.8	447.2	446.9	446.4	445.9	445.4	444.9	444.8	444.6
177.5°	445.9	446.5	447.2	447.5	447.2	446.7	446.2	445.7	445.2	445.1	445.1
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	4.7	4.2	3.9	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.1	6.9	6.8	6.9	7.2	7.5	7.8	8.1	7.8	7.5	7.2
95°	11.1	10.6	10.3	11.5	13.9	16.2	18.6	21.0	18.6	16.2	13.9
97.5°	13.0	11.9	11.3	14.2	20.1	26.0	31.8	37.7	31.8	26.0	20.1
100°	14.7	13.5	12.9	17.8	27.6	37.5	47.3	57.1	47.3	37.5	27.6
102.5°	58.1	71.2	77.7	77.8	77.9	78.0	78.2	78.3	78.2	78.0	77.9
105°	78.4	97.9	107.7	106.6	104.5	102.3	100.2	98.0	100.2	102.3	104.5
107.5°	92.8	116.9	129.0	128.1	126.3	124.5	122.7	120.9	122.7	124.5	126.3
110°	118.5	139.2	149.6	148.8	147.3	145.8	144.3	142.8	144.3	145.8	147.3

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	167.5	168.7	169.3	168.7	167.4	166.1	164.8	163.5	164.8	166.1	167.4
115°	193.6	191.8	190.9	190.3	189.1	187.8	186.6	185.4	186.6	187.8	189.1
117.5°	212.6	211.4	210.8	210.1	208.7	207.2	205.8	204.4	205.8	207.2	208.7
120°	232.4	231.1	230.5	230.0	228.9	227.8	226.8	225.7	226.8	227.8	228.9
122.5°	251.0	249.6	248.9	248.3	247.2	246.0	244.9	243.7	244.9	246.0	247.2
125°	268.3	267.0	266.3	265.8	264.9	264.0	263.0	262.1	263.0	264.0	264.9
127.5°	285.0	283.9	283.4	282.9	281.9	280.9	279.9	278.9	279.9	280.9	281.9
130°	301.0	300.2	299.8	299.2	298.1	297.0	295.8	294.7	295.8	297.0	298.1
132.5°	316.2	315.4	315.0	314.5	313.6	312.7	311.7	310.8	311.7	312.7	313.6
135°	330.5	329.8	329.5	328.9	327.8	326.6	325.5	324.3	325.5	326.6	327.8
137.5°	343.5	342.8	342.4	342.0	341.1	340.2	339.4	338.5	339.4	340.2	341.1
140°	356.2	355.4	355.0	354.7	354.1	353.6	353.0	352.4	353.0	353.6	354.1
142.5°	367.6	366.7	366.2	366.0	365.5	365.0	364.5	364.0	364.5	365.0	365.5
145°	377.7	376.5	375.9	375.9	376.0	376.1	376.1	376.2	376.1	376.1	376.0
147.5°	387.7	386.5	385.9	386.0	386.2	386.5	386.7	386.9	386.7	386.5	386.2
150°	396.6	395.5	394.9	395.2	395.7	396.2	396.7	397.2	396.7	396.2	395.7
152.5°	404.9	403.8	403.3	403.6	404.2	404.7	405.3	405.9	405.3	404.7	404.2
155°	412.7	411.8	411.4	411.7	412.4	413.0	413.7	414.3	413.7	413.0	412.4
157.5°	419.5	418.8	418.5	418.8	419.4	419.9	420.5	421.1	420.5	419.9	419.4
160°	425.6	425.1	424.9	425.1	425.6	426.0	426.5	426.9	426.5	426.0	425.6
162.5°	430.6	430.3	430.1	430.3	430.7	431.2	431.6	432.0	431.6	431.2	430.7
165°	434.9	434.7	434.6	434.8	435.2	435.7	436.1	436.5	436.1	435.7	435.2
167.5°	438.4	438.2	438.1	438.3	438.8	439.2	439.7	440.1	439.7	439.2	438.8
170°	441.2	441.1	441.0	441.2	441.7	442.1	442.6	443.0	442.6	442.1	441.7
172.5°	443.2	443.1	443.0	443.2	443.6	444.1	444.5	444.9	444.5	444.1	443.6
175°	444.5	444.4	444.3	444.5	445.0	445.5	446.0	446.5	446.0	445.5	445.0
177.5°	445.0	444.9	444.9	445.2	445.7	446.2	446.7	447.2	446.7	446.2	445.7
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	3.5	3.9	4.2	4.7	5.3	5.8	6.4	6.8	7.2	7.5	7.9
92.5°	6.9	6.8	6.9	7.1	7.3	7.5	7.7	7.9	8.0	8.2	8.3
95°	11.5	10.3	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0
97.5°	14.2	11.3	11.9	13.0	14.1	15.3	16.4	16.6	16.8	17.1	17.3
100°	17.8	12.9	13.5	14.7	16.0	17.2	18.4	19.0	19.6	20.1	20.7
102.5°	77.8	77.7	71.2	58.1	45.1	32.0	19.0	19.8	20.6	21.4	22.2
105°	106.6	107.7	97.9	78.4	58.8	39.3	19.7	20.5	21.3	22.0	22.8
107.5°	128.1	129.0	116.9	92.8	68.6	44.5	20.3	21.1	21.9	22.7	23.5
110°	148.8	149.6	139.2	118.5	97.8	77.1	56.4	49.2	42.1	34.9	27.8

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	168.7	169.3	168.7	167.5	166.2	165.0	163.8	132.9	102.0	71.1	40.2
115°	190.3	190.9	191.8	193.6	195.3	197.1	198.9	165.7	132.5	99.4	66.2
117.5°	210.1	210.8	211.4	212.6	213.9	215.1	216.3	206.1	195.8	185.6	175.3
120°	230.0	230.5	231.1	232.4	233.7	235.0	236.3	237.2	238.0	238.9	239.8
122.5°	248.3	248.9	249.6	251.0	252.5	253.9	255.3	255.7	256.2	256.6	257.1
125°	265.8	266.3	267.0	268.3	269.7	271.0	272.4	272.9	273.4	273.9	274.4
127.5°	282.9	283.4	283.9	285.0	286.1	287.1	288.2	288.9	289.6	290.3	291.0
130°	299.2	299.8	300.2	301.0	301.8	302.6	303.4	304.2	305.0	305.7	306.5
132.5°	314.5	315.0	315.4	316.2	316.9	317.7	318.5	319.1	319.8	320.4	321.1
135°	328.9	329.5	329.8	330.5	331.1	331.8	332.4	333.1	333.8	334.5	335.2
137.5°	342.0	342.4	342.8	343.5	344.2	344.9	345.6	346.3	347.0	347.7	348.4
140°	354.7	355.0	355.4	356.2	356.9	357.7	358.5	359.1	359.8	360.4	361.1
142.5°	366.0	366.2	366.7	367.6	368.5	369.5	370.4	371.0	371.6	372.1	372.7
145°	375.9	375.9	376.5	377.7	379.0	380.2	381.4	381.9	382.4	382.9	383.4
147.5°	386.0	385.9	386.5	387.7	389.0	390.2	391.4	391.8	392.1	392.5	392.8
150°	395.2	394.9	395.5	396.6	397.8	398.9	400.1	400.5	400.9	401.4	401.8
152.5°	403.6	403.3	403.8	404.9	406.0	407.1	408.2	408.6	409.0	409.5	409.9
155°	411.7	411.4	411.8	412.7	413.6	414.4	415.3	415.7	416.1	416.6	417.0
157.5°	418.8	418.5	418.8	419.5	420.1	420.8	421.4	421.9	422.4	422.9	423.4
160°	425.1	424.9	425.1	425.6	426.0	426.5	426.9	427.3	427.7	428.2	428.6
162.5°	430.3	430.1	430.3	430.6	431.0	431.3	431.7	432.2	432.7	433.2	433.7
165°	434.8	434.6	434.7	434.9	435.2	435.4	435.6	436.1	436.6	437.1	437.6
167.5°	438.3	438.1	438.2	438.4	438.7	438.9	439.1	439.6	440.1	440.6	441.1
170°	441.2	441.0	441.1	441.2	441.4	441.5	441.7	442.2	442.7	443.2	443.7
172.5°	443.2	443.0	443.1	443.2	443.3	443.5	443.6	444.1	444.6	445.1	445.6
175°	444.5	444.3	444.4	444.5	444.6	444.8	444.9	445.4	445.9	446.4	446.9
177.5°	445.2	444.9	444.9	445.0	445.1	445.1	445.2	445.7	446.2	446.7	447.2
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	8.1	8.2	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	8.1
92.5°	8.4	8.4	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.4
95°	14.2	14.2	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.2
97.5°	17.4	17.4	17.5	17.6	17.6	17.7	17.6	17.6	17.5	17.4	17.4
100°	21.0	21.1	21.2	21.3	21.5	21.6	21.5	21.3	21.2	21.1	21.0
102.5°	22.6	22.7	22.9	23.1	23.3	23.5	23.3	23.1	22.9	22.7	22.6
105°	23.2	23.3	23.6	23.9	24.2	24.5	24.2	23.9	23.6	23.3	23.2
107.5°	23.9	24.0	24.3	24.6	24.8	25.1	24.8	24.6	24.3	24.0	23.9
110°	24.2	24.3	24.6	24.9	25.2	25.5	25.2	24.9	24.6	24.3	24.2

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	24.8	24.9	25.1	25.4	25.6	25.8	25.6	25.4	25.1	24.9	24.8
115°	49.6	47.0	41.9	36.7	31.6	26.4	31.6	36.7	41.9	47.0	49.6
117.5°	170.2	160.8	142.1	123.3	104.6	85.8	104.6	123.3	142.1	160.8	170.2
120°	240.2	235.4	225.7	216.0	206.4	196.7	206.4	216.0	225.7	235.4	240.2
122.5°	257.3	257.3	257.4	257.5	257.5	257.6	257.5	257.5	257.4	257.3	257.3
125°	274.7	274.8	275.0	275.3	275.5	275.7	275.5	275.3	275.0	274.8	274.7
127.5°	291.4	291.4	291.5	291.6	291.7	291.8	291.7	291.6	291.5	291.4	291.4
130°	306.9	306.9	306.8	306.7	306.7	306.6	306.7	306.7	306.8	306.9	306.9
132.5°	321.4	321.4	321.3	321.2	321.2	321.1	321.2	321.2	321.3	321.4	321.4
135°	335.6	335.5	335.4	335.3	335.1	335.0	335.1	335.3	335.4	335.5	335.6
137.5°	348.8	348.7	348.5	348.3	348.1	347.9	348.1	348.3	348.5	348.7	348.8
140°	361.4	361.2	360.9	360.5	360.2	359.8	360.2	360.5	360.9	361.2	361.4
142.5°	373.0	372.8	372.5	372.1	371.8	371.4	371.8	372.1	372.5	372.8	373.0
145°	383.7	383.5	383.1	382.8	382.4	382.0	382.4	382.8	383.1	383.5	383.7
147.5°	393.0	392.9	392.6	392.3	392.0	391.7	392.0	392.3	392.6	392.9	393.0
150°	402.0	401.8	401.5	401.1	400.8	400.4	400.8	401.1	401.5	401.8	402.0
152.5°	410.1	409.8	409.3	408.8	408.3	407.8	408.3	408.8	409.3	409.8	410.1
155°	417.2	416.9	416.3	415.8	415.2	414.6	415.2	415.8	416.3	416.9	417.2
157.5°	423.6	423.3	422.8	422.2	421.7	421.1	421.7	422.2	422.8	423.3	423.6
160°	428.8	428.5	428.0	427.5	427.0	426.5	427.0	427.5	428.0	428.5	428.8
162.5°	434.0	433.7	433.0	432.3	431.7	431.0	431.7	432.3	433.0	433.7	434.0
165°	437.8	437.6	437.1	436.6	436.1	435.6	436.1	436.6	437.1	437.6	437.8
167.5°	441.4	441.1	440.4	439.8	439.1	438.5	439.1	439.8	440.4	441.1	441.4
170°	443.9	443.6	442.9	442.3	441.6	441.0	441.6	442.3	442.9	443.6	443.9
172.5°	445.9	445.6	444.9	444.3	443.6	443.0	443.6	444.3	444.9	445.6	445.9
175°	447.2	446.8	446.1	445.4	444.6	443.9	444.6	445.4	446.1	446.8	447.2
177.5°	447.5	447.2	446.5	445.9	445.2	444.6	445.2	445.9	446.5	447.2	447.5
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	7.9	7.5	7.2	6.8	6.4	5.8	5.3	4.7	4.2	3.9	3.5
92.5°	8.3	8.2	8.0	7.9	7.7	7.5	7.3	7.1	6.9	6.8	6.9
95°	14.0	13.7	13.3	13.0	12.6	12.1	11.6	11.1	10.6	10.3	11.5
97.5°	17.3	17.1	16.8	16.6	16.4	15.3	14.1	13.0	11.9	11.3	14.2
100°	20.7	20.1	19.6	19.0	18.4	17.2	16.0	14.7	13.5	12.9	17.8
102.5°	22.2	21.4	20.6	19.8	19.0	32.0	45.1	58.1	71.2	77.7	77.8
105°	22.8	22.0	21.3	20.5	19.7	39.3	58.8	78.4	97.9	107.7	106.6
107.5°	23.5	22.7	21.9	21.1	20.3	44.5	68.6	92.8	116.9	129.0	128.1
110°	27.8	34.9	42.1	49.2	56.4	77.1	97.8	118.5	139.2	149.6	148.8

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	40.2	71.1	102.0	132.9	163.8	165.0	166.2	167.5	168.7	169.3	168.7
115°	66.2	99.4	132.5	165.7	198.9	197.1	195.3	193.6	191.8	190.9	190.3
117.5°	175.3	185.6	195.8	206.1	216.3	215.1	213.9	212.6	211.4	210.8	210.1
120°	239.8	238.9	238.0	237.2	236.3	235.0	233.7	232.4	231.1	230.5	230.0
122.5°	257.1	256.6	256.2	255.7	255.3	253.9	252.5	251.0	249.6	248.9	248.3
125°	274.4	273.9	273.4	272.9	272.4	271.0	269.7	268.3	267.0	266.3	265.8
127.5°	291.0	290.3	289.6	288.9	288.2	287.1	286.1	285.0	283.9	283.4	282.9
130°	306.5	305.7	305.0	304.2	303.4	302.6	301.8	301.0	300.2	299.8	299.2
132.5°	321.1	320.4	319.8	319.1	318.5	317.7	316.9	316.2	315.4	315.0	314.5
135°	335.2	334.5	333.8	333.1	332.4	331.8	331.1	330.5	329.8	329.5	328.9
137.5°	348.4	347.7	347.0	346.3	345.6	344.9	344.2	343.5	342.8	342.4	342.0
140°	361.1	360.4	359.8	359.1	358.5	357.7	356.9	356.2	355.4	355.0	354.7
142.5°	372.7	372.1	371.6	371.0	370.4	369.5	368.5	367.6	366.7	366.2	366.0
145°	383.4	382.9	382.4	381.9	381.4	380.2	379.0	377.7	376.5	375.9	375.9
147.5°	392.8	392.5	392.1	391.8	391.4	390.2	389.0	387.7	386.5	385.9	386.0
150°	401.8	401.4	400.9	400.5	400.1	398.9	397.8	396.6	395.5	394.9	395.2
152.5°	409.9	409.5	409.0	408.6	408.2	407.1	406.0	404.9	403.8	403.3	403.6
155°	417.0	416.6	416.1	415.7	415.3	414.4	413.6	412.7	411.8	411.4	411.7
157.5°	423.4	422.9	422.4	421.9	421.4	420.8	420.1	419.5	418.8	418.5	418.8
160°	428.6	428.2	427.7	427.3	426.9	426.5	426.0	425.6	425.1	424.9	425.1
162.5°	433.7	433.2	432.7	432.2	431.7	431.3	431.0	430.6	430.3	430.1	430.3
165°	437.6	437.1	436.6	436.1	435.6	435.4	435.2	434.9	434.7	434.6	434.8
167.5°	441.1	440.6	440.1	439.6	439.1	438.9	438.7	438.4	438.2	438.1	438.3
170°	443.7	443.2	442.7	442.2	441.7	441.5	441.4	441.2	441.1	441.0	441.2
172.5°	445.6	445.1	444.6	444.1	443.6	443.5	443.3	443.2	443.1	443.0	443.2
175°	446.9	446.4	445.9	445.4	444.9	444.8	444.6	444.5	444.4	444.3	444.5
177.5°	447.2	446.7	446.2	445.7	445.2	445.1	445.1	445.0	444.9	444.9	445.2
180°	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6	445.6

TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-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°	2.7	1.9	1.1	0.3
92.5°	7.2	7.5	7.8	8.1
95°	13.9	16.2	18.6	21.0
97.5°	20.1	26.0	31.8	37.7
100°	27.6	37.5	47.3	57.1
102.5°	77.9	78.0	78.2	78.3
105°	104.5	102.3	100.2	98.0
107.5°	126.3	124.5	122.7	120.9
110°	147.3	145.8	144.3	142.8



TEST NUMBER: P1000105

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	167.4	166.1	164.8	163.5
115°	189.1	187.8	186.6	185.4
117.5°	208.7	207.2	205.8	204.4
120°	228.9	227.8	226.8	225.7
122.5°	247.2	246.0	244.9	243.7
125°	264.9	264.0	263.0	262.1
127.5°	281.9	280.9	279.9	278.9
130°	298.1	297.0	295.8	294.7
132.5°	313.6	312.7	311.7	310.8
135°	327.8	326.6	325.5	324.3
137.5°	341.1	340.2	339.4	338.5
140°	354.1	353.6	353.0	352.4
142.5°	365.5	365.0	364.5	364.0
145°	376.0	376.1	376.1	376.2
147.5°	386.2	386.5	386.7	386.9
150°	395.7	396.2	396.7	397.2
152.5°	404.2	404.7	405.3	405.9
155°	412.4	413.0	413.7	414.3
157.5°	419.4	419.9	420.5	421.1
160°	425.6	426.0	426.5	426.9
162.5°	430.7	431.2	431.6	432.0
165°	435.2	435.7	436.1	436.5
167.5°	438.8	439.2	439.7	440.1
170°	441.7	442.1	442.6	443.0
172.5°	443.6	444.1	444.5	444.9
175°	445.0	445.5	446.0	446.5
177.5°	445.7	446.2	446.7	447.2
180°	445.6	445.6	445.6	445.6

(END OF REPORT)