

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: P1000106

Luminaire Tested: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000106
REPORT IS A COMBINATION OF REPORTS P988665 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

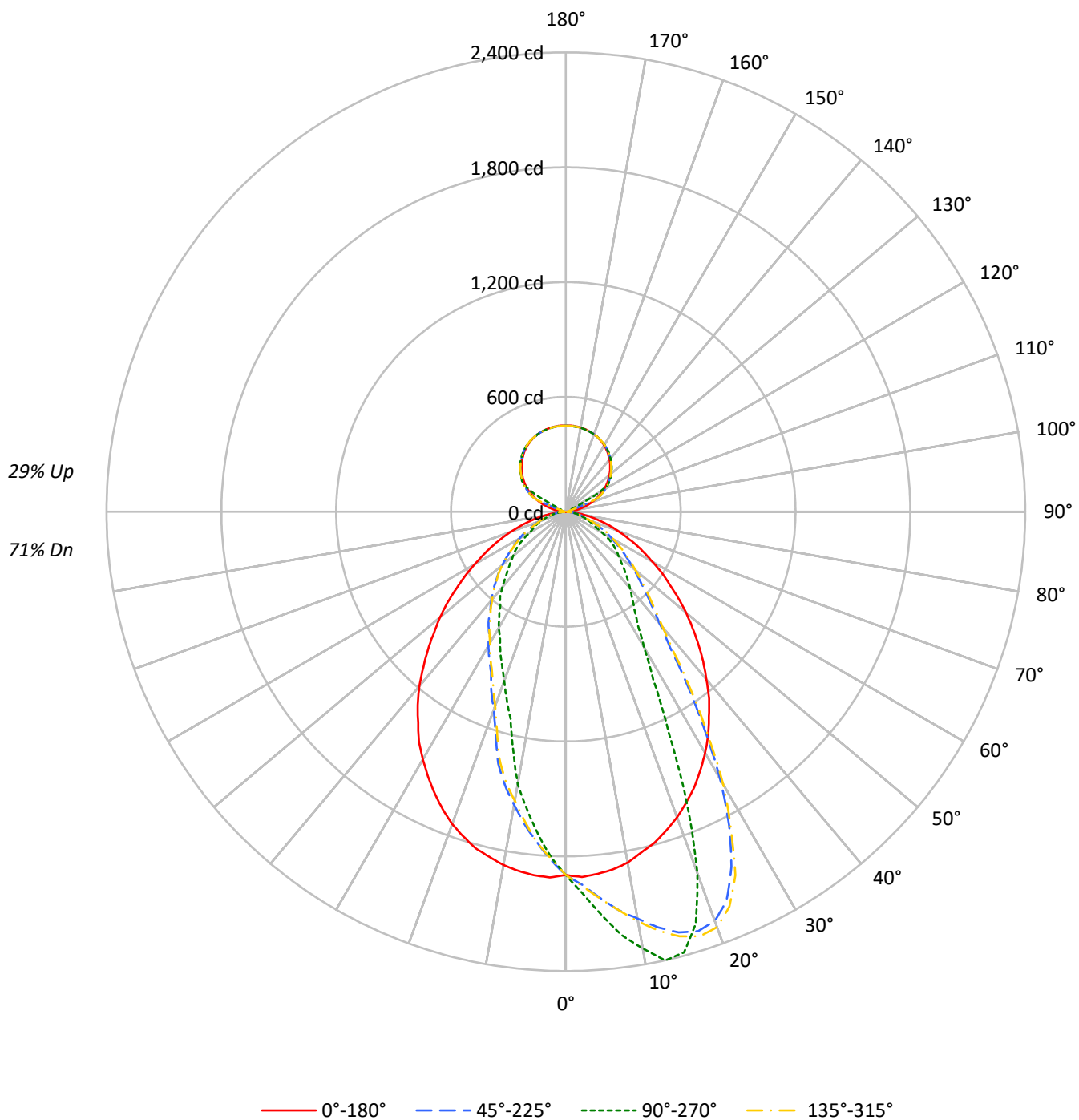
Lumens per Lamp: N/A
Luminaire Lumens: 4599.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
Input Voltage (V):
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: P1000106

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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°	30044	30044	30044	30044
5°	30114	31912	30218	25494
10°	29783	33729	29994	21052
15°	29137	33740	29630	15816
20°	28359	27889	28976	13048
25°	27418	17427	28008	11101
30°	26213	11158	26926	9556
35°	24750	8575	25551	8178
40°	23117	7208	24105	7153
45°	21375	6136	22268	6004
50°	19588	5213	20501	5194
55°	17608	4529	18556	4471
60°	15849	3455	16690	3412
65°	14209	2600	15052	2950
70°	12394	2077	13365	2404
75°	10478	1591	11434	1818
80°	8319	1081	8950	1192
85°	5777	557	6328	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 27484 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	3.9
10°-20°	502.5	10.9
20°-30°	646.7	14.1
30°-40°	613.5	13.3
40°-50°	525.8	11.4
50°-60°	400.4	8.7
60°-70°	252.5	5.5
70°-80°	126.0	2.7
80°-90°	33.2	0.7
90°-100°	14.8	0.3
100°-110°	55.3	1.2
110°-120°	146.6	3.2
120°-130°	243.1	5.3
130°-140°	258.3	5.6
140°-150°	240.0	5.2
150°-160°	193.0	4.2
160°-170°	124.3	2.7
170°-180°	42.8	0.9
0°-30°	1329.3	28.9
0°-40°	1942.8	42.2
0°-60°	2869.1	62.4
0°-90°	3280.8	71.3
90°-120°	216.7	4.7
90°-150°	958.1	20.8
90°-180°	1318.0	28.7
0°-180°	4599.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1898	1898	1898	1898	1898	
5°	1899	2112	1906	1687	1899	180
15°	1790	2383	1820	1117	1790	504
25°	1588	1272	1622	810	1588	729
35°	1303	626	1345	598	1303	815
45°	979	435	1020	426	979	755
55°	661	302	696	298	661	596
65°	400	157	423	178	400	397
75°	187	83	204	95	187	203
85°	41	24	45	25	41	46
90°	0	9	0	9	0	4
95°	21	14	21	14	21	25
105°	99	25	99	25	99	106
115°	187	27	187	27	187	184
125°	264	278	264	278	264	236
135°	327	338	327	338	327	253
145°	380	386	380	386	380	237
155°	418	418	418	418	418	193
165°	440	440	440	440	440	124
175°	451	448	451	448	451	43
180°	450	450	450	450	450	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1909.9	1917.8	1921.8	1927.0	1938.9	1946.8	1958.7	1961.3	1960.0	1965.3	1950.8
5°	1899.3	1916.5	1932.3	1945.5	1966.6	1979.8	1994.3	2011.4	2015.4	2035.2	2023.3
7.5°	1884.8	1909.9	1932.3	1958.7	1990.3	2007.5	2029.9	2056.3	2068.2	2091.9	2098.5
10°	1861.1	1896.7	1934.9	1962.6	2006.2	2036.5	2057.6	2099.8	2127.5	2163.1	2157.9
12.5°	1822.8	1869.0	1920.4	1966.6	2023.3	2043.1	2082.7	2126.2	2161.8	2194.8	2223.8
15°	1789.9	1842.6	1899.3	1956.0	2020.7	2057.6	2097.2	2153.9	2192.1	2250.2	2275.2
17.5°	1745.0	1812.3	1879.5	1942.9	2019.4	2061.6	2110.4	2165.8	2222.5	2277.9	2297.7
20°	1698.8	1771.4	1843.9	1929.7	2016.7	2057.6	2107.7	2176.3	2231.7	2275.2	2275.2
22.5°	1643.4	1731.8	1814.9	1896.7	1991.7	2051.0	2102.5	2182.9	2222.5	2231.7	2196.1
25°	1588.1	1676.4	1767.4	1869.0	1977.2	2029.9	2087.9	2163.1	2176.3	2139.4	2047.1
27.5°	1522.1	1621.0	1723.9	1833.4	1946.8	2012.8	2065.5	2115.6	2090.6	1991.7	1847.9
30°	1454.8	1561.7	1677.7	1781.9	1919.1	1979.8	2024.6	2039.1	1960.0	1799.1	1613.1
32.5°	1384.9	1489.1	1611.8	1737.1	1875.6	1933.6	1962.6	1924.4	1779.3	1576.2	1349.3
35°	1303.2	1420.5	1548.5	1679.1	1816.2	1859.8	1876.9	1783.3	1597.3	1334.8	1109.3
37.5°	1229.3	1346.7	1483.9	1617.1	1750.3	1774.0	1756.9	1610.5	1374.4	1114.5	894.3
40°	1142.2	1267.5	1402.1	1551.1	1660.6	1667.2	1625.0	1435.0	1142.2	898.2	762.4
42.5°	1061.8	1188.4	1322.9	1474.6	1557.7	1535.3	1478.6	1229.3	953.6	774.2	664.8
45°	978.7	1098.7	1243.8	1378.3	1437.7	1384.9	1299.2	1034.1	800.6	666.1	581.7
47.5°	898.2	1010.3	1154.1	1283.4	1293.9	1234.6	1133.0	866.6	693.8	585.6	517.0
50°	819.1	931.2	1065.7	1172.6	1162.0	1080.2	965.5	753.1	602.8	517.0	460.3
52.5°	739.9	841.5	972.1	1056.5	1011.7	932.5	819.1	638.4	526.3	451.1	407.6
55°	660.8	755.8	867.9	937.8	866.6	775.6	695.1	547.4	456.4	395.7	362.7
57.5°	594.9	670.0	772.9	815.1	729.4	658.2	588.3	470.9	395.7	352.2	313.9
60°	522.3	590.9	675.3	700.4	612.0	554.0	494.6	398.3	339.0	300.7	275.7
62.5°	460.3	517.0	581.7	581.7	503.9	460.3	415.5	333.7	284.9	254.6	242.7
65°	399.7	440.5	486.7	481.4	415.5	377.2	341.6	275.7	238.7	217.6	205.8
67.5°	340.3	372.0	402.3	383.8	336.3	303.4	270.4	222.9	197.8	183.3	167.5
70°	286.2	311.3	327.1	310.0	262.5	234.8	211.0	179.4	159.6	141.1	131.9
72.5°	240.1	250.6	255.9	234.8	195.2	179.4	162.2	139.8	122.7	113.4	110.8
75°	187.3	196.5	192.6	176.7	143.8	131.9	118.7	102.9	98.9	93.6	91.0
77.5°	146.4	146.4	139.8	125.3	102.9	93.6	88.4	80.5	76.5	75.2	72.5
80°	104.2	102.9	98.9	83.1	69.9	64.6	64.6	59.4	58.0	55.4	55.4
82.5°	68.6	68.6	63.3	50.1	46.2	44.8	43.5	40.9	40.9	39.6	39.6
85°	40.9	38.3	31.7	27.7	26.4	26.4	25.1	23.7	25.1	23.7	23.7
87.5°	18.5	14.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
90°	0.3	1.1	1.9	2.7	3.5	3.9	4.2	4.8	5.3	5.9	6.5
92.5°	8.1	7.8	7.5	7.2	6.9	6.8	6.9	7.1	7.4	7.6	7.8
95°	21.1	18.7	16.3	14.0	11.6	10.4	10.7	11.2	11.7	12.2	12.7
97.5°	38.1	32.2	26.2	20.3	14.4	11.4	12.0	13.1	14.3	15.4	16.6
100°	57.6	47.7	37.8	27.9	18.0	13.0	13.6	14.8	16.1	17.3	18.5
102.5°	79.1	78.9	78.8	78.6	78.5	78.4	71.8	58.7	45.5	32.4	19.2
105°	98.9	101.1	103.3	105.4	107.6	108.7	98.8	79.1	59.3	39.6	19.8
107.5°	122.0	123.8	125.6	127.4	129.2	130.1	117.9	93.6	69.2	44.9	20.5
110°	144.1	145.6	147.2	148.7	150.2	151.0	140.5	119.6	98.7	77.8	56.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	165.0	166.3	167.6	168.9	170.2	170.8	170.2	169.0	167.7	166.5	165.3
115°	187.1	188.3	189.5	190.8	192.0	192.6	193.5	195.3	197.1	198.9	200.7
117.5°	206.3	207.7	209.2	210.6	212.1	212.8	213.4	214.6	215.9	217.1	218.3
120°	227.8	228.9	229.9	231.0	232.1	232.6	233.3	234.6	235.9	237.2	238.5
122.5°	246.0	247.2	248.3	249.5	250.6	251.2	251.9	253.4	254.8	256.3	257.7
125°	264.5	265.4	266.4	267.3	268.2	268.7	269.4	270.8	272.1	273.5	274.9
127.5°	281.4	282.4	283.4	284.5	285.5	286.0	286.5	287.6	288.7	289.8	290.9
130°	297.4	298.6	299.7	300.9	302.0	302.6	303.0	303.8	304.6	305.4	306.2
132.5°	313.6	314.6	315.5	316.5	317.4	317.9	318.3	319.1	319.9	320.7	321.5
135°	327.3	328.5	329.6	330.8	331.9	332.5	332.8	333.5	334.1	334.8	335.4
137.5°	341.6	342.5	343.3	344.2	345.1	345.5	345.9	346.6	347.3	348.1	348.8
140°	355.6	356.2	356.8	357.3	357.9	358.2	358.6	359.4	360.2	361.0	361.8
142.5°	367.3	367.8	368.3	368.8	369.3	369.6	370.1	371.0	371.9	372.9	373.8
145°	379.7	379.6	379.6	379.5	379.4	379.4	380.0	381.2	382.5	383.7	384.9
147.5°	390.4	390.2	390.0	389.8	389.6	389.5	390.1	391.3	392.6	393.8	395.0
150°	400.8	400.3	399.8	399.3	398.8	398.6	399.2	400.3	401.5	402.6	403.8
152.5°	409.6	409.0	408.4	407.9	407.3	407.0	407.5	408.6	409.7	410.8	411.9
155°	418.1	417.5	416.8	416.2	415.5	415.2	415.6	416.5	417.4	418.2	419.1
157.5°	424.9	424.3	423.7	423.2	422.6	422.3	422.6	423.3	423.9	424.6	425.2
160°	430.8	430.4	429.9	429.5	429.0	428.8	429.0	429.5	429.9	430.4	430.8
162.5°	436.0	435.6	435.1	434.7	434.2	434.0	434.2	434.6	434.9	435.3	435.7
165°	440.5	440.1	439.7	439.2	438.8	438.6	438.7	438.9	439.2	439.4	439.6
167.5°	444.1	443.7	443.3	442.8	442.4	442.2	442.3	442.5	442.7	442.9	443.1
170°	447.0	446.6	446.2	445.7	445.3	445.1	445.2	445.3	445.4	445.6	445.7
172.5°	449.0	448.6	448.1	447.7	447.2	447.0	447.1	447.2	447.4	447.5	447.7
175°	450.6	450.1	449.6	449.1	448.6	448.3	448.4	448.5	448.7	448.8	449.0
177.5°	451.3	450.8	450.3	449.8	449.3	449.0	449.0	449.1	449.2	449.2	449.3
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1965.3	1967.9	1971.9	1990.3	1993.0	1998.3	1995.6	1995.6	1996.9	1994.3	1995.6
5°	2049.7	2053.7	2073.4	2095.9	2101.1	2095.9	2102.5	2111.7	2111.7	2111.7	2109.0
7.5°	2128.8	2143.3	2165.8	2198.7	2205.3	2211.9	2223.8	2215.9	2218.5	2230.4	2226.4
10°	2205.3	2226.4	2251.5	2279.2	2293.7	2302.9	2308.2	2320.1	2347.8	2316.1	2328.0
12.5°	2277.9	2308.2	2334.6	2364.9	2375.5	2387.4	2391.3	2401.9	2401.9	2400.5	2409.8
15°	2325.4	2353.1	2376.8	2396.6	2399.2	2396.6	2393.9	2395.3	2399.2	2383.4	2392.6
17.5°	2335.9	2338.6	2346.5	2338.6	2339.9	2312.2	2296.3	2292.4	2255.5	2256.8	2287.1
20°	2284.5	2239.6	2227.8	2184.2	2157.9	2086.6	2084.0	2064.2	1986.4	2010.1	2004.8
22.5°	2143.3	2066.8	1965.3	1915.2	1890.1	1814.9	1756.9	1716.0	1688.3	1660.6	1648.7
25°	1957.4	1833.4	1689.6	1590.7	1576.2	1506.3	1399.4	1349.3	1290.0	1271.5	1303.2
27.5°	1717.3	1556.4	1394.2	1242.5	1214.8	1151.5	1097.4	1061.8	993.2	989.2	991.9
30°	1391.5	1229.3	1093.4	994.5	925.9	896.9	861.3	834.9	807.2	817.8	820.4
32.5°	1143.6	989.2	862.6	809.9	778.2	759.7	729.4	712.2	700.4	696.4	695.1
35°	908.8	805.9	749.2	697.7	679.3	666.1	643.7	635.7	625.2	626.5	626.5
37.5°	778.2	692.5	650.3	623.9	606.7	600.1	585.6	577.7	571.1	568.5	572.4
40°	671.4	612.0	585.6	561.9	547.4	544.7	536.8	527.6	519.7	521.0	525.0
42.5°	593.5	559.2	527.6	509.1	498.6	494.6	488.0	481.4	481.4	477.5	476.2
45°	531.5	503.9	477.5	460.3	453.7	448.5	440.5	439.2	433.9	435.3	436.6
47.5°	476.2	453.7	433.9	416.8	410.2	408.9	401.0	395.7	395.7	394.4	393.1
50°	426.0	403.6	386.5	377.2	368.0	365.4	364.0	362.7	360.1	360.1	361.4
52.5°	385.1	362.7	349.5	341.6	336.3	333.7	333.7	332.4	332.4	332.4	331.1
55°	340.3	321.8	311.3	308.6	306.0	304.7	303.4	300.7	299.4	302.0	299.4
57.5°	298.1	291.5	282.3	279.6	273.0	273.0	269.1	266.4	263.8	266.4	266.4
60°	265.1	255.9	250.6	242.7	237.4	232.1	225.5	224.2	221.6	220.3	219.0
62.5°	230.8	222.9	209.7	197.8	189.9	184.7	182.0	180.7	180.7	179.4	179.4
65°	192.6	174.1	167.5	163.6	162.2	160.9	158.3	157.0	158.3	157.0	158.3
67.5°	150.4	147.7	143.8	141.1	139.8	138.5	138.5	137.2	137.2	137.2	137.2
70°	130.6	124.0	122.7	120.0	120.0	118.7	118.7	118.7	118.7	117.4	120.0
72.5°	108.2	104.2	102.9	101.6	101.6	101.6	100.2	100.2	100.2	98.9	100.2
75°	88.4	87.1	84.4	84.4	83.1	84.4	83.1	83.1	81.8	83.1	83.1
77.5°	71.2	69.9	68.6	68.6	67.3	67.3	67.3	67.3	67.3	67.3	68.6
80°	54.1	52.8	51.4	52.8	51.4	52.8	51.4	51.4	52.8	51.4	51.4
82.5°	39.6	38.3	38.3	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9
85°	23.7	22.4	22.4	23.7	22.4	23.7	22.4	22.4	22.4	23.7	23.7
87.5°	10.6	11.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	11.9
90°	6.9	7.2	7.6	7.9	8.1	8.2	8.3	8.5	8.6	8.8	8.6
92.5°	8.0	8.1	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8	8.7
95°	13.1	13.4	13.8	14.1	14.3	14.3	14.2	14.1	14.1	14.0	14.1
97.5°	16.8	17.0	17.3	17.5	17.6	17.6	17.7	17.8	17.8	17.9	17.8
100°	19.1	19.7	20.2	20.8	21.1	21.2	21.3	21.5	21.6	21.8	21.6
102.5°	20.0	20.8	21.6	22.4	22.8	22.9	23.1	23.4	23.6	23.8	23.6
105°	20.6	21.4	22.2	23.0	23.4	23.5	23.8	24.1	24.4	24.7	24.4
107.5°	21.3	22.1	22.9	23.7	24.1	24.2	24.5	24.8	25.1	25.4	25.1
110°	49.7	42.5	35.2	28.0	24.4	24.5	24.8	25.1	25.4	25.7	25.4

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	134.1	103.0	71.8	40.7	25.1	25.2	25.4	25.6	25.8	26.0	25.8
115°	167.2	133.8	100.3	66.8	50.1	47.5	42.3	37.1	31.9	26.7	31.9
117.5°	208.0	197.6	187.3	177.0	171.8	162.3	143.4	124.4	105.5	86.5	105.5
120°	239.4	240.2	241.1	242.0	242.4	237.5	227.8	218.0	208.3	198.5	208.3
122.5°	258.1	258.5	259.0	259.4	259.6	259.6	259.7	259.8	259.9	260.0	259.9
125°	275.4	275.9	276.4	276.9	277.2	277.3	277.5	277.8	278.0	278.2	278.0
127.5°	291.6	292.3	293.0	293.7	294.1	294.1	294.2	294.3	294.4	294.5	294.4
130°	307.0	307.8	308.5	309.3	309.7	309.7	309.6	309.5	309.5	309.4	309.5
132.5°	322.1	322.8	323.4	324.1	324.4	324.4	324.3	324.2	324.2	324.1	324.2
135°	336.1	336.9	337.6	338.3	338.7	338.6	338.5	338.3	338.2	338.0	338.2
137.5°	349.5	350.2	350.9	351.6	352.0	351.9	351.7	351.5	351.3	351.1	351.3
140°	362.4	363.1	363.7	364.4	364.7	364.5	364.2	363.8	363.5	363.1	363.5
142.5°	374.4	375.0	375.5	376.1	376.4	376.2	375.9	375.5	375.2	374.8	375.2
145°	385.4	385.9	386.4	386.9	387.2	387.0	386.7	386.3	386.0	385.6	386.0
147.5°	395.4	395.7	396.1	396.4	396.6	396.5	396.2	395.9	395.6	395.3	395.6
150°	404.2	404.6	405.1	405.5	405.7	405.5	405.2	404.8	404.5	404.1	404.5
152.5°	412.3	412.8	413.2	413.7	413.9	413.6	413.1	412.6	412.1	411.6	412.1
155°	419.5	419.9	420.4	420.8	421.0	420.7	420.1	419.6	419.0	418.4	419.0
157.5°	425.7	426.2	426.7	427.2	427.5	427.2	426.6	426.1	425.5	424.9	425.5
160°	431.2	431.6	432.1	432.5	432.7	432.5	432.0	431.5	431.0	430.5	431.0
162.5°	436.2	436.7	437.2	437.7	437.9	437.6	436.9	436.3	435.6	435.0	435.6
165°	440.1	440.6	441.1	441.6	441.8	441.6	441.1	440.6	440.1	439.6	440.1
167.5°	443.6	444.1	444.6	445.1	445.4	445.1	444.4	443.8	443.1	442.5	443.1
170°	446.2	446.7	447.2	447.7	448.0	447.7	447.0	446.4	445.7	445.1	445.7
172.5°	448.2	448.7	449.2	449.7	450.0	449.7	449.0	448.3	447.7	447.0	447.7
175°	449.5	450.0	450.5	451.0	451.3	450.9	450.2	449.5	448.7	448.0	448.7
177.5°	449.8	450.3	450.8	451.3	451.6	451.3	450.6	450.0	449.3	448.7	449.3
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	2000.9	1991.7	1989.0	1991.7	1989.0	1990.3	1981.1	1946.8	1956.0	1941.5	1949.5
5°	2114.3	2106.4	2089.3	2086.6	2084.0	2081.4	2068.2	2037.8	2026.0	2006.2	2004.8
7.5°	2222.5	2222.5	2209.3	2200.1	2188.2	2179.0	2161.8	2117.0	2098.5	2074.8	2061.6
10°	2329.3	2295.0	2309.5	2300.3	2271.3	2266.0	2234.4	2208.0	2172.4	2148.6	2127.5
12.5°	2405.8	2395.3	2382.1	2374.2	2366.2	2349.1	2328.0	2260.7	2242.3	2194.8	2171.0
15°	2403.2	2396.6	2400.5	2400.5	2397.9	2393.9	2376.8	2328.0	2296.3	2250.2	2209.3
17.5°	2273.9	2291.1	2308.2	2320.1	2346.5	2358.3	2374.2	2345.1	2325.4	2285.8	2242.3
20°	2048.4	2090.6	2140.7	2151.3	2175.0	2244.9	2276.6	2301.6	2309.5	2296.3	2260.7
22.5°	1734.5	1770.1	1891.4	1888.8	1923.1	2006.2	2098.5	2173.7	2233.0	2266.0	2252.8
25°	1358.5	1408.7	1473.3	1522.1	1634.2	1758.2	1873.0	1993.0	2095.9	2186.9	2209.3
27.5°	1027.5	1093.4	1144.9	1209.5	1266.2	1412.6	1560.4	1747.6	1867.7	2040.5	2130.2
30°	831.0	861.3	912.7	943.1	970.8	1082.9	1250.4	1435.0	1646.1	1845.3	1999.6
32.5°	709.6	730.7	769.0	782.2	811.2	886.4	991.9	1160.7	1378.3	1619.7	1822.8
35°	637.1	659.5	667.4	679.3	703.0	750.5	823.0	945.7	1142.2	1378.3	1621.0
37.5°	575.1	586.9	609.4	617.3	625.2	660.8	709.6	795.3	925.9	1119.8	1388.9
40°	531.5	538.1	550.0	556.6	561.9	586.9	630.5	688.5	784.8	932.5	1180.5
42.5°	485.4	493.3	501.2	509.1	515.7	535.5	561.9	617.3	681.9	794.0	973.4
45°	440.5	445.8	455.0	460.3	469.6	485.4	509.1	547.4	605.4	676.6	821.7
47.5°	399.7	406.2	410.2	416.8	423.4	440.5	463.0	488.0	535.5	605.4	710.9
50°	362.7	370.6	375.9	377.2	382.5	398.3	416.8	444.5	474.8	528.9	621.2
52.5°	336.3	337.7	341.6	346.9	345.6	354.8	372.0	393.1	424.7	468.2	535.5
55°	306.0	310.0	312.6	313.9	313.9	321.8	331.1	350.8	375.9	411.5	468.2
57.5°	267.8	271.7	279.6	282.3	286.2	290.2	294.1	307.3	328.4	362.7	408.9
60°	228.2	230.8	238.7	244.0	246.6	257.2	262.5	273.0	284.9	310.0	353.5
62.5°	183.3	186.0	189.9	195.2	200.5	216.3	229.5	240.1	249.3	266.4	302.0
65°	159.6	160.9	163.6	164.9	166.2	172.8	184.7	199.2	216.3	229.5	250.6
67.5°	138.5	139.8	141.1	143.8	145.1	146.4	151.7	155.6	172.8	191.3	207.1
70°	118.7	121.3	122.7	122.7	124.0	126.6	129.3	134.5	139.8	149.0	168.8
72.5°	100.2	101.6	104.2	104.2	104.2	106.8	109.5	112.1	114.8	120.0	127.9
75°	83.1	85.7	85.7	85.7	87.1	87.1	89.7	92.3	95.0	98.9	101.6
77.5°	68.6	68.6	68.6	68.6	69.9	69.9	71.2	73.9	75.2	76.5	79.1
80°	51.4	52.8	52.8	52.8	54.1	54.1	54.1	56.7	58.0	58.0	60.7
82.5°	38.3	38.3	38.3	39.6	38.3	39.6	39.6	40.9	39.6	40.9	42.2
85°	23.7	23.7	23.7	25.1	25.1	25.1	25.1	25.1	25.1	25.1	26.4
87.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	13.2	11.9	11.9
90°	8.5	8.3	8.2	8.1	7.9	7.6	7.2	6.9	6.5	5.9	5.3
92.5°	8.7	8.6	8.5	8.5	8.4	8.3	8.1	8.0	7.8	7.6	7.4
95°	14.1	14.2	14.3	14.3	14.1	13.8	13.4	13.1	12.7	12.2	11.7
97.5°	17.8	17.7	17.6	17.6	17.5	17.3	17.0	16.8	16.6	15.4	14.3
100°	21.5	21.3	21.2	21.1	20.8	20.2	19.7	19.1	18.5	17.3	16.1
102.5°	23.4	23.1	22.9	22.8	22.4	21.6	20.8	20.0	19.2	32.4	45.5
105°	24.1	23.8	23.5	23.4	23.0	22.2	21.4	20.6	19.8	39.6	59.3
107.5°	24.8	24.5	24.2	24.1	23.7	22.9	22.1	21.3	20.5	44.9	69.2
110°	25.1	24.8	24.5	24.4	28.0	35.2	42.5	49.7	56.9	77.8	98.7



TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	25.6	25.4	25.2	25.1	40.7	71.8	103.0	134.1	165.3	166.5	167.7
115°	37.1	42.3	47.5	50.1	66.8	100.3	133.8	167.2	200.7	198.9	197.1
117.5°	124.4	143.4	162.3	171.8	177.0	187.3	197.6	208.0	218.3	217.1	215.9
120°	218.0	227.8	237.5	242.4	242.0	241.1	240.2	239.4	238.5	237.2	235.9
122.5°	259.8	259.7	259.6	259.6	259.4	259.0	258.5	258.1	257.7	256.3	254.8
125°	277.8	277.5	277.3	277.2	276.9	276.4	275.9	275.4	274.9	273.5	272.1
127.5°	294.3	294.2	294.1	294.1	293.7	293.0	292.3	291.6	290.9	289.8	288.7
130°	309.5	309.6	309.7	309.7	309.3	308.5	307.8	307.0	306.2	305.4	304.6
132.5°	324.2	324.3	324.4	324.4	324.1	323.4	322.8	322.1	321.5	320.7	319.9
135°	338.3	338.5	338.6	338.7	338.3	337.6	336.9	336.1	335.4	334.8	334.1
137.5°	351.5	351.7	351.9	352.0	351.6	350.9	350.2	349.5	348.8	348.1	347.3
140°	363.8	364.2	364.5	364.7	364.4	363.7	363.1	362.4	361.8	361.0	360.2
142.5°	375.5	375.9	376.2	376.4	376.1	375.5	375.0	374.4	373.8	372.9	371.9
145°	386.3	386.7	387.0	387.2	386.9	386.4	385.9	385.4	384.9	383.7	382.5
147.5°	395.9	396.2	396.5	396.6	396.4	396.1	395.7	395.4	395.0	393.8	392.6
150°	404.8	405.2	405.5	405.7	405.5	405.1	404.6	404.2	403.8	402.6	401.5
152.5°	412.6	413.1	413.6	413.9	413.7	413.2	412.8	412.3	411.9	410.8	409.7
155°	419.6	420.1	420.7	421.0	420.8	420.4	419.9	419.5	419.1	418.2	417.4
157.5°	426.1	426.6	427.2	427.5	427.2	426.7	426.2	425.7	425.2	424.6	423.9
160°	431.5	432.0	432.5	432.7	432.5	432.1	431.6	431.2	430.8	430.4	429.9
162.5°	436.3	436.9	437.6	437.9	437.7	437.2	436.7	436.2	435.7	435.3	434.9
165°	440.6	441.1	441.6	441.8	441.6	441.1	440.6	440.1	439.6	439.4	439.2
167.5°	443.8	444.4	445.1	445.4	445.1	444.6	444.1	443.6	443.1	442.9	442.7
170°	446.4	447.0	447.7	448.0	447.7	447.2	446.7	446.2	445.7	445.6	445.4
172.5°	448.3	449.0	449.7	450.0	449.7	449.2	448.7	448.2	447.7	447.5	447.4
175°	449.5	450.2	450.9	451.3	451.0	450.5	450.0	449.5	449.0	448.8	448.7
177.5°	450.0	450.6	451.3	451.6	451.3	450.8	450.3	449.8	449.3	449.2	449.2
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1937.6	1931.0	1931.0	1927.0	1927.0	1905.9	1905.9	1912.5	1904.6	1895.4	1882.2
5°	1987.7	1973.2	1969.2	1964.0	1946.8	1920.4	1909.9	1905.9	1890.1	1870.3	1847.9
7.5°	2035.2	2011.4	1999.6	1987.7	1965.3	1928.3	1907.2	1892.7	1869.0	1838.7	1809.6
10°	2081.4	2051.0	2020.7	2006.2	1974.5	1928.3	1898.0	1874.3	1840.0	1799.1	1758.2
12.5°	2123.6	2060.2	2055.0	2026.0	1979.8	1927.0	1880.9	1846.6	1803.0	1755.6	1708.1
15°	2160.5	2095.9	2064.2	2037.8	1977.2	1911.2	1862.4	1820.2	1762.2	1708.1	1650.0
17.5°	2179.0	2109.0	2087.9	2044.4	1982.4	1896.7	1830.7	1779.3	1716.0	1651.4	1585.4
20°	2197.4	2115.6	2081.4	2051.0	1966.6	1869.0	1795.1	1735.8	1665.9	1589.4	1516.8
22.5°	2206.7	2115.6	2074.8	2032.5	1950.8	1838.7	1751.6	1681.7	1599.9	1522.1	1435.0
25°	2190.8	2107.7	2058.9	2015.4	1923.1	1801.7	1701.5	1622.3	1535.3	1446.9	1358.5
27.5°	2151.3	2089.3	2032.5	1987.7	1884.8	1754.2	1648.7	1559.0	1469.3	1370.4	1280.7
30°	2077.4	2049.7	2004.8	1954.7	1842.6	1712.0	1586.7	1494.4	1395.5	1296.6	1202.9
32.5°	1962.6	1986.4	1957.4	1913.8	1792.5	1654.0	1520.8	1427.1	1319.0	1212.1	1126.4
35°	1822.8	1907.2	1891.4	1861.1	1739.7	1592.0	1458.8	1345.4	1237.2	1129.0	1043.3
37.5°	1669.8	1797.8	1811.0	1792.5	1679.1	1528.7	1382.3	1271.5	1160.7	1051.2	964.2
40°	1460.1	1656.6	1698.8	1706.8	1615.8	1452.2	1299.2	1191.0	1081.6	974.7	869.2
42.5°	1267.5	1515.5	1568.3	1601.2	1535.3	1377.0	1222.7	1102.7	994.5	898.2	792.7
45°	1086.8	1345.4	1431.1	1473.3	1444.3	1291.3	1131.7	1019.6	920.6	832.3	730.7
47.5°	900.9	1160.7	1280.7	1348.0	1348.0	1204.2	1044.6	933.8	838.9	763.7	674.0
50°	776.9	993.2	1117.2	1205.5	1229.3	1115.9	965.5	857.3	767.6	685.9	617.3
52.5°	662.1	856.0	958.9	1051.2	1119.8	1020.9	877.1	779.5	691.1	614.6	560.6
55°	572.4	717.5	811.2	912.7	989.2	924.6	791.4	696.4	619.9	556.6	510.4
57.5°	486.7	613.3	689.8	779.5	861.3	812.5	705.7	623.9	556.6	501.2	460.3
60°	414.2	517.0	576.4	646.3	747.9	713.6	625.2	550.0	495.9	445.8	411.5
62.5°	352.2	433.9	484.1	534.2	626.5	610.7	542.1	484.1	437.9	395.7	366.7
65°	288.9	356.1	395.7	439.2	513.1	519.7	464.3	423.4	381.2	344.3	317.9
67.5°	233.5	286.2	321.8	358.8	418.1	436.6	398.3	364.0	328.4	298.1	274.3
70°	188.6	225.5	251.9	280.9	329.7	352.2	332.4	308.6	279.6	254.6	233.5
72.5°	149.0	172.8	188.6	211.0	250.6	273.0	271.7	250.6	229.5	212.4	195.2
75°	109.5	127.9	141.1	155.6	187.3	208.4	213.7	204.4	183.3	170.1	157.0
77.5°	83.1	93.6	100.2	110.8	133.2	151.7	159.6	157.0	142.4	131.9	122.7
80°	63.3	65.9	68.6	72.5	91.0	108.2	113.4	112.1	104.2	100.2	89.7
82.5°	44.8	46.2	47.5	48.8	55.4	69.9	75.2	77.8	71.2	67.3	58.0
85°	26.4	27.7	27.7	30.3	31.7	35.6	44.8	44.8	43.5	38.3	36.9
87.5°	13.2	13.2	11.9	11.9	13.2	14.5	17.1	19.8	17.1	15.8	14.5
90°	4.8	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°	11.2	10.7	10.4	11.6	14.0	16.3	18.7	21.1	18.7	16.3	14.0
97.5°	13.1	12.0	11.4	14.4	20.3	26.2	32.2	38.1	32.2	26.2	20.3
100°	14.8	13.6	13.0	18.0	27.9	37.8	47.7	57.6	47.7	37.8	27.9
102.5°	58.7	71.8	78.4	78.5	78.6	78.8	78.9	79.1	78.9	78.8	78.6
105°	79.1	98.8	108.7	107.6	105.4	103.3	101.1	98.9	101.1	103.3	105.4
107.5°	93.6	117.9	130.1	129.2	127.4	125.6	123.8	122.0	123.8	125.6	127.4
110°	119.6	140.5	151.0	150.2	148.7	147.2	145.6	144.1	145.6	147.2	148.7

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	169.0	170.2	170.8	170.2	168.9	167.6	166.3	165.0	166.3	167.6	168.9
115°	195.3	193.5	192.6	192.0	190.8	189.5	188.3	187.1	188.3	189.5	190.8
117.5°	214.6	213.4	212.8	212.1	210.6	209.2	207.7	206.3	207.7	209.2	210.6
120°	234.6	233.3	232.6	232.1	231.0	229.9	228.9	227.8	228.9	229.9	231.0
122.5°	253.4	251.9	251.2	250.6	249.5	248.3	247.2	246.0	247.2	248.3	249.5
125°	270.8	269.4	268.7	268.2	267.3	266.4	265.4	264.5	265.4	266.4	267.3
127.5°	287.6	286.5	286.0	285.5	284.5	283.4	282.4	281.4	282.4	283.4	284.5
130°	303.8	303.0	302.6	302.0	300.9	299.7	298.6	297.4	298.6	299.7	300.9
132.5°	319.1	318.3	317.9	317.4	316.5	315.5	314.6	313.6	314.6	315.5	316.5
135°	333.5	332.8	332.5	331.9	330.8	329.6	328.5	327.3	328.5	329.6	330.8
137.5°	346.6	345.9	345.5	345.1	344.2	343.3	342.5	341.6	342.5	343.3	344.2
140°	359.4	358.6	358.2	357.9	357.3	356.8	356.2	355.6	356.2	356.8	357.3
142.5°	371.0	370.1	369.6	369.3	368.8	368.3	367.8	367.3	367.8	368.3	368.8
145°	381.2	380.0	379.4	379.4	379.5	379.6	379.6	379.7	379.6	379.6	379.5
147.5°	391.3	390.1	389.5	389.6	389.8	390.0	390.2	390.4	390.2	390.0	389.8
150°	400.3	399.2	398.6	398.8	399.3	399.8	400.3	400.8	400.3	399.8	399.3
152.5°	408.6	407.5	407.0	407.3	407.9	408.4	409.0	409.6	409.0	408.4	407.9
155°	416.5	415.6	415.2	415.5	416.2	416.8	417.5	418.1	417.5	416.8	416.2
157.5°	423.3	422.6	422.3	422.6	423.2	423.7	424.3	424.9	424.3	423.7	423.2
160°	429.5	429.0	428.8	429.0	429.5	429.9	430.4	430.8	430.4	429.9	429.5
162.5°	434.6	434.2	434.0	434.2	434.7	435.1	435.6	436.0	435.6	435.1	434.7
165°	438.9	438.7	438.6	438.8	439.2	439.7	440.1	440.5	440.1	439.7	439.2
167.5°	442.5	442.3	442.2	442.4	442.8	443.3	443.7	444.1	443.7	443.3	442.8
170°	445.3	445.2	445.1	445.3	445.7	446.2	446.6	447.0	446.6	446.2	445.7
172.5°	447.2	447.1	447.0	447.2	447.7	448.1	448.6	449.0	448.6	448.1	447.7
175°	448.5	448.4	448.3	448.6	449.1	449.6	450.1	450.6	450.1	449.6	449.1
177.5°	449.1	449.0	449.0	449.3	449.8	450.3	450.8	451.3	450.8	450.3	449.8
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1876.9	1878.2	1882.2	1870.3	1851.8	1843.9	1820.2	1816.2	1812.3	1812.3	1816.2
5°	1834.7	1829.4	1830.7	1808.3	1781.9	1766.1	1733.1	1738.4	1721.3	1710.7	1713.4
7.5°	1788.5	1774.0	1772.7	1743.7	1710.7	1681.7	1647.4	1639.5	1623.7	1605.2	1597.3
10°	1730.5	1719.9	1700.2	1667.2	1625.0	1601.2	1555.1	1527.4	1523.4	1495.7	1485.2
12.5°	1671.1	1652.7	1632.9	1586.7	1539.2	1501.0	1466.7	1436.4	1415.3	1391.5	1375.7
15°	1602.6	1580.1	1557.7	1508.9	1453.5	1415.3	1363.8	1319.0	1257.0	1208.2	1180.5
17.5°	1527.4	1502.3	1472.0	1417.9	1363.8	1311.1	1216.1	1163.3	1119.8	1090.8	1073.6
20°	1449.6	1421.9	1391.5	1337.4	1243.8	1151.5	1098.7	1057.8	1031.4	1002.4	981.3
22.5°	1367.8	1338.8	1305.8	1221.4	1122.5	1057.8	1016.9	978.7	940.4	924.6	914.1
25°	1291.3	1264.9	1222.7	1107.9	1030.1	970.8	924.6	899.5	879.8	858.7	838.9
27.5°	1212.1	1163.3	1104.0	1007.7	958.9	898.2	865.3	846.8	812.5	798.0	788.7
30°	1117.2	1063.1	1006.4	937.8	881.1	838.9	808.5	778.2	758.4	743.9	728.1
32.5°	1020.9	969.5	933.8	862.6	820.4	776.9	747.9	729.4	700.4	691.1	684.6
35°	937.8	894.3	862.6	804.6	765.0	725.4	704.3	676.6	658.2	641.0	630.5
37.5°	856.0	832.3	799.3	750.5	708.3	676.6	647.6	638.4	613.3	604.1	593.5
40°	799.3	763.7	736.0	693.8	658.2	623.9	605.4	584.3	567.2	552.7	548.7
42.5°	730.7	704.3	688.5	642.3	605.4	585.6	563.2	539.5	526.3	514.4	499.9
45°	679.3	655.5	633.1	596.2	563.2	538.1	518.4	502.5	480.1	474.8	452.4
47.5°	625.2	601.5	584.3	547.4	517.0	493.3	478.8	457.7	439.2	427.3	416.8
50°	571.1	551.3	535.5	503.9	477.5	452.4	432.6	411.5	403.6	383.8	377.2
52.5°	519.7	506.5	489.3	459.0	432.6	411.5	390.4	373.3	361.4	350.8	342.9
55°	476.2	455.0	447.1	414.2	391.7	369.3	350.8	340.3	325.8	319.2	312.6
57.5°	427.3	415.5	402.3	377.2	352.2	331.1	317.9	302.0	294.1	286.2	280.9
60°	385.1	368.0	357.4	336.3	313.9	294.1	282.3	270.4	259.8	253.2	242.7
62.5°	336.3	323.2	316.6	294.1	275.7	257.2	246.6	234.8	226.9	215.0	201.8
65°	294.1	283.6	275.7	257.2	240.1	222.9	212.4	197.8	187.3	180.7	179.4
67.5°	257.2	249.3	237.4	220.3	203.1	189.9	178.1	166.2	164.9	162.2	162.2
70°	216.3	208.4	201.8	183.3	168.8	154.3	151.7	147.7	143.8	142.4	139.8
72.5°	180.7	174.1	166.2	150.4	135.9	131.9	129.3	126.6	122.7	121.3	120.0
75°	146.4	137.2	131.9	117.4	113.4	110.8	108.2	104.2	101.6	100.2	97.6
77.5°	112.1	102.9	102.9	95.0	92.3	88.4	85.7	83.1	81.8	79.1	79.1
80°	79.1	79.1	76.5	72.5	68.6	67.3	63.3	62.0	60.7	62.0	59.4
82.5°	58.0	52.8	52.8	50.1	47.5	46.2	43.5	43.5	42.2	42.2	42.2
85°	33.0	33.0	31.7	29.0	27.7	27.7	26.4	26.4	25.1	25.1	23.7
87.5°	13.2	11.9	13.2	11.9	11.9	10.6	10.6	10.6	9.2	10.6	9.2
90°	3.5	3.9	4.2	4.8	5.3	5.9	6.5	6.9	7.2	7.6	7.9
92.5°	6.9	6.8	6.9	7.1	7.4	7.6	7.8	8.0	8.1	8.3	8.4
95°	11.6	10.4	10.7	11.2	11.7	12.2	12.7	13.1	13.4	13.8	14.1
97.5°	14.4	11.4	12.0	13.1	14.3	15.4	16.6	16.8	17.0	17.3	17.5
100°	18.0	13.0	13.6	14.8	16.1	17.3	18.5	19.1	19.7	20.2	20.8
102.5°	78.5	78.4	71.8	58.7	45.5	32.4	19.2	20.0	20.8	21.6	22.4
105°	107.6	108.7	98.8	79.1	59.3	39.6	19.8	20.6	21.4	22.2	23.0
107.5°	129.2	130.1	117.9	93.6	69.2	44.9	20.5	21.3	22.1	22.9	23.7
110°	150.2	151.0	140.5	119.6	98.7	77.8	56.9	49.7	42.5	35.2	28.0

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	170.2	170.8	170.2	169.0	167.7	166.5	165.3	134.1	103.0	71.8	40.7
115°	192.0	192.6	193.5	195.3	197.1	198.9	200.7	167.2	133.8	100.3	66.8
117.5°	212.1	212.8	213.4	214.6	215.9	217.1	218.3	208.0	197.6	187.3	177.0
120°	232.1	232.6	233.3	234.6	235.9	237.2	238.5	239.4	240.2	241.1	242.0
122.5°	250.6	251.2	251.9	253.4	254.8	256.3	257.7	258.1	258.5	259.0	259.4
125°	268.2	268.7	269.4	270.8	272.1	273.5	274.9	275.4	275.9	276.4	276.9
127.5°	285.5	286.0	286.5	287.6	288.7	289.8	290.9	291.6	292.3	293.0	293.7
130°	302.0	302.6	303.0	303.8	304.6	305.4	306.2	307.0	307.8	308.5	309.3
132.5°	317.4	317.9	318.3	319.1	319.9	320.7	321.5	322.1	322.8	323.4	324.1
135°	331.9	332.5	332.8	333.5	334.1	334.8	335.4	336.1	336.9	337.6	338.3
137.5°	345.1	345.5	345.9	346.6	347.3	348.1	348.8	349.5	350.2	350.9	351.6
140°	357.9	358.2	358.6	359.4	360.2	361.0	361.8	362.4	363.1	363.7	364.4
142.5°	369.3	369.6	370.1	371.0	371.9	372.9	373.8	374.4	375.0	375.5	376.1
145°	379.4	379.4	380.0	381.2	382.5	383.7	384.9	385.4	385.9	386.4	386.9
147.5°	389.6	389.5	390.1	391.3	392.6	393.8	395.0	395.4	395.7	396.1	396.4
150°	398.8	398.6	399.2	400.3	401.5	402.6	403.8	404.2	404.6	405.1	405.5
152.5°	407.3	407.0	407.5	408.6	409.7	410.8	411.9	412.3	412.8	413.2	413.7
155°	415.5	415.2	415.6	416.5	417.4	418.2	419.1	419.5	419.9	420.4	420.8
157.5°	422.6	422.3	422.6	423.3	423.9	424.6	425.2	425.7	426.2	426.7	427.2
160°	429.0	428.8	429.0	429.5	429.9	430.4	430.8	431.2	431.6	432.1	432.5
162.5°	434.2	434.0	434.2	434.6	434.9	435.3	435.7	436.2	436.7	437.2	437.7
165°	438.8	438.6	438.7	438.9	439.2	439.4	439.6	440.1	440.6	441.1	441.6
167.5°	442.4	442.2	442.3	442.5	442.7	442.9	443.1	443.6	444.1	444.6	445.1
170°	445.3	445.1	445.2	445.3	445.4	445.6	445.7	446.2	446.7	447.2	447.7
172.5°	447.2	447.0	447.1	447.2	447.4	447.5	447.7	448.2	448.7	449.2	449.7
175°	448.6	448.3	448.4	448.5	448.7	448.8	449.0	449.5	450.0	450.5	451.0
177.5°	449.3	449.0	449.0	449.1	449.2	449.2	449.3	449.8	450.3	450.8	451.3
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1816.2	1813.6	1805.7	1808.3	1804.4	1804.4	1801.7	1801.7	1801.7	1808.3	1804.4
5°	1717.3	1708.1	1698.8	1694.9	1690.9	1687.0	1687.0	1685.7	1697.5	1694.9	1705.4
7.5°	1594.6	1592.0	1573.5	1573.5	1566.9	1564.3	1570.9	1572.2	1573.5	1576.2	1582.8
10°	1485.2	1478.6	1452.2	1454.8	1450.9	1445.6	1449.6	1446.9	1456.2	1458.8	1456.2
12.5°	1355.9	1344.0	1315.0	1300.5	1284.7	1272.8	1287.3	1276.8	1313.7	1324.3	1353.3
15°	1184.4	1162.0	1142.2	1142.2	1127.7	1117.2	1123.8	1135.6	1143.6	1155.4	1160.7
17.5°	1069.7	1060.5	1044.6	1035.4	1031.4	1027.5	1027.5	1032.8	1049.9	1048.6	1059.1
20°	972.1	966.8	958.9	947.0	943.1	940.4	940.4	940.4	952.3	962.9	969.5
22.5°	904.8	900.9	895.6	879.8	871.8	869.2	875.8	879.8	889.0	896.9	903.5
25°	837.6	828.3	819.1	813.8	809.9	809.9	812.5	813.8	817.8	821.7	829.6
27.5°	782.2	775.6	762.4	747.9	747.9	743.9	746.5	749.2	758.4	771.6	778.2
30°	720.2	718.8	713.6	708.3	703.0	700.4	705.7	709.6	710.9	717.5	717.5
32.5°	675.3	666.1	656.9	651.6	648.9	647.6	648.9	654.2	654.2	662.1	671.4
35°	630.5	625.2	616.0	606.7	604.1	597.5	602.8	608.0	617.3	621.2	625.2
37.5°	581.7	575.1	571.1	568.5	563.2	564.5	560.6	568.5	576.4	575.1	577.7
40°	544.7	532.9	521.0	519.7	518.4	517.0	517.0	518.4	523.6	528.9	536.8
42.5°	497.3	493.3	482.7	472.2	469.6	466.9	464.3	469.6	480.1	489.3	493.3
45°	448.5	443.2	440.5	432.6	427.3	426.0	423.4	430.0	439.2	443.2	445.8
47.5°	403.6	402.3	394.4	395.7	391.7	393.1	391.7	395.7	395.7	399.7	402.3
50°	373.3	369.3	365.4	362.7	358.8	358.8	357.4	358.8	364.0	369.3	368.0
52.5°	342.9	336.3	335.0	333.7	331.1	333.7	329.7	331.1	336.3	339.0	337.7
55°	307.3	306.0	303.4	300.7	299.4	298.1	298.1	298.1	303.4	307.3	308.6
57.5°	279.6	273.0	267.8	267.8	262.5	261.2	263.8	265.1	269.1	271.7	274.3
60°	241.4	238.7	230.8	226.9	219.0	217.6	217.6	222.9	229.5	238.7	241.4
62.5°	200.5	196.5	195.2	195.2	195.2	195.2	195.2	195.2	195.2	196.5	196.5
65°	178.1	179.4	178.1	176.7	178.1	178.1	176.7	176.7	176.7	178.1	179.4
67.5°	159.6	158.3	159.6	158.3	157.0	157.0	155.6	157.0	158.3	159.6	159.6
70°	138.5	138.5	137.2	138.5	137.2	135.9	134.5	134.5	137.2	138.5	138.5
72.5°	118.7	118.7	117.4	117.4	114.8	114.8	116.1	114.8	114.8	118.7	118.7
75°	98.9	97.6	96.3	96.3	95.0	95.0	95.0	93.6	96.3	96.3	97.6
77.5°	77.8	77.8	77.8	76.5	76.5	75.2	75.2	76.5	76.5	76.5	77.8
80°	59.4	59.4	59.4	58.0	56.7	56.7	56.7	56.7	56.7	58.0	56.7
82.5°	40.9	40.9	40.9	40.9	40.9	39.6	39.6	39.6	40.9	40.9	39.6
85°	25.1	23.7	25.1	25.1	23.7	25.1	23.7	23.7	22.4	22.4	23.7
87.5°	10.6	9.2	7.9	7.9	9.2	7.9	7.9	7.9	9.2	7.9	7.9
90°	8.1	8.2	8.3	8.5	8.6	8.8	8.6	8.5	8.3	8.2	8.1
92.5°	8.5	8.5	8.6	8.7	8.7	8.8	8.7	8.7	8.6	8.5	8.5
95°	14.3	14.3	14.2	14.1	14.1	14.0	14.1	14.1	14.2	14.3	14.3
97.5°	17.6	17.6	17.7	17.8	17.8	17.9	17.8	17.8	17.7	17.6	17.6
100°	21.1	21.2	21.3	21.5	21.6	21.8	21.6	21.5	21.3	21.2	21.1
102.5°	22.8	22.9	23.1	23.4	23.6	23.8	23.6	23.4	23.1	22.9	22.8
105°	23.4	23.5	23.8	24.1	24.4	24.7	24.4	24.1	23.8	23.5	23.4
107.5°	24.1	24.2	24.5	24.8	25.1	25.4	25.1	24.8	24.5	24.2	24.1
110°	24.4	24.5	24.8	25.1	25.4	25.7	25.4	25.1	24.8	24.5	24.4

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	25.1	25.2	25.4	25.6	25.8	26.0	25.8	25.6	25.4	25.2	25.1
115°	50.1	47.5	42.3	37.1	31.9	26.7	31.9	37.1	42.3	47.5	50.1
117.5°	171.8	162.3	143.4	124.4	105.5	86.5	105.5	124.4	143.4	162.3	171.8
120°	242.4	237.5	227.8	218.0	208.3	198.5	208.3	218.0	227.8	237.5	242.4
122.5°	259.6	259.6	259.7	259.8	259.9	260.0	259.9	259.8	259.7	259.6	259.6
125°	277.2	277.3	277.5	277.8	278.0	278.2	278.0	277.8	277.5	277.3	277.2
127.5°	294.1	294.1	294.2	294.3	294.4	294.5	294.4	294.3	294.2	294.1	294.1
130°	309.7	309.7	309.6	309.5	309.5	309.4	309.5	309.5	309.6	309.7	309.7
132.5°	324.4	324.4	324.3	324.2	324.2	324.1	324.2	324.2	324.3	324.4	324.4
135°	338.7	338.6	338.5	338.3	338.2	338.0	338.2	338.3	338.5	338.6	338.7
137.5°	352.0	351.9	351.7	351.5	351.3	351.1	351.3	351.5	351.7	351.9	352.0
140°	364.7	364.5	364.2	363.8	363.5	363.1	363.5	363.8	364.2	364.5	364.7
142.5°	376.4	376.2	375.9	375.5	375.2	374.8	375.2	375.5	375.9	376.2	376.4
145°	387.2	387.0	386.7	386.3	386.0	385.6	386.0	386.3	386.7	387.0	387.2
147.5°	396.6	396.5	396.2	395.9	395.6	395.3	395.6	395.9	396.2	396.5	396.6
150°	405.7	405.5	405.2	404.8	404.5	404.1	404.5	404.8	405.2	405.5	405.7
152.5°	413.9	413.6	413.1	412.6	412.1	411.6	412.1	412.6	413.1	413.6	413.9
155°	421.0	420.7	420.1	419.6	419.0	418.4	419.0	419.6	420.1	420.7	421.0
157.5°	427.5	427.2	426.6	426.1	425.5	424.9	425.5	426.1	426.6	427.2	427.5
160°	432.7	432.5	432.0	431.5	431.0	430.5	431.0	431.5	432.0	432.5	432.7
162.5°	437.9	437.6	436.9	436.3	435.6	435.0	435.6	436.3	436.9	437.6	437.9
165°	441.8	441.6	441.1	440.6	440.1	439.6	440.1	440.6	441.1	441.6	441.8
167.5°	445.4	445.1	444.4	443.8	443.1	442.5	443.1	443.8	444.4	445.1	445.4
170°	448.0	447.7	447.0	446.4	445.7	445.1	445.7	446.4	447.0	447.7	448.0
172.5°	450.0	449.7	449.0	448.3	447.7	447.0	447.7	448.3	449.0	449.7	450.0
175°	451.3	450.9	450.2	449.5	448.7	448.0	448.7	449.5	450.2	450.9	451.3
177.5°	451.6	451.3	450.6	450.0	449.3	448.7	449.3	450.0	450.6	451.3	451.6
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0	1898.0
2.5°	1808.3	1814.9	1812.3	1797.8	1812.3	1816.2	1824.1	1832.1	1837.3	1845.3	1851.8
5°	1694.9	1708.1	1716.0	1708.1	1734.5	1738.4	1756.9	1767.4	1783.3	1796.5	1807.0
7.5°	1588.1	1598.6	1614.4	1617.1	1632.9	1651.4	1677.7	1704.1	1729.2	1742.4	1754.2
10°	1473.3	1491.8	1515.5	1510.2	1534.0	1563.0	1590.7	1632.9	1654.0	1677.7	1698.8
12.5°	1358.5	1370.4	1402.1	1412.6	1446.9	1469.3	1507.6	1534.0	1586.7	1614.4	1632.9
15°	1158.1	1206.9	1246.4	1293.9	1338.8	1381.0	1415.3	1462.7	1508.9	1530.0	1560.4
17.5°	1067.1	1089.5	1113.2	1137.0	1195.0	1270.2	1330.9	1382.3	1421.9	1449.6	1485.2
20°	972.1	994.5	1020.9	1043.3	1078.9	1133.0	1208.2	1296.6	1344.0	1373.1	1407.4
22.5°	904.8	925.9	943.1	962.9	990.6	1030.1	1086.8	1196.3	1259.6	1295.2	1325.6
25°	832.3	858.7	877.1	891.6	914.1	957.6	1003.7	1065.7	1179.2	1206.9	1249.1
27.5°	782.2	790.1	811.2	833.6	856.0	879.8	927.2	980.0	1056.5	1117.2	1168.6
30°	722.8	742.6	762.4	771.6	791.4	825.7	854.7	911.4	970.8	1018.3	1080.2
32.5°	678.0	689.8	703.0	725.4	743.9	767.6	796.7	844.1	894.3	924.6	972.1
35°	627.8	635.7	663.4	672.7	691.1	714.9	743.9	780.8	834.9	858.7	892.9
37.5°	580.4	598.8	606.7	627.8	645.0	668.7	689.8	732.0	767.6	795.3	827.0
40°	543.4	551.3	565.8	584.3	598.8	617.3	643.7	674.0	712.2	734.7	762.4
42.5°	498.6	505.2	523.6	534.2	557.9	575.1	590.9	627.8	662.1	679.3	707.0
45°	449.8	465.6	477.5	498.6	511.8	532.9	552.7	579.0	610.7	630.5	646.3
47.5°	407.6	423.4	435.3	455.0	476.2	485.4	506.5	534.2	563.2	579.0	601.5
50°	373.3	378.5	401.0	410.2	432.6	451.1	465.6	489.3	521.0	530.2	548.7
52.5°	340.3	344.3	358.8	370.6	390.4	406.2	424.7	447.1	473.5	488.0	502.5
55°	311.3	313.9	320.5	333.7	346.9	366.7	383.8	404.9	427.3	443.2	456.4
57.5°	278.3	283.6	288.9	296.8	310.0	328.4	346.9	366.7	385.1	395.7	412.8
60°	240.1	248.0	257.2	266.4	275.7	288.9	310.0	328.4	345.6	354.8	368.0
62.5°	199.2	215.0	222.9	233.5	241.4	253.2	269.1	290.2	302.0	313.9	324.5
65°	179.4	180.7	182.0	192.6	207.1	219.0	233.5	249.3	267.8	275.7	283.6
67.5°	159.6	160.9	163.6	164.9	170.1	183.3	199.2	216.3	230.8	236.1	244.0
70°	139.8	139.8	145.1	146.4	147.7	149.0	162.2	179.4	192.6	199.2	208.4
72.5°	118.7	120.0	122.7	124.0	126.6	129.3	133.2	142.4	158.3	164.9	175.4
75°	97.6	98.9	100.2	101.6	105.5	106.8	110.8	116.1	122.7	130.6	137.2
77.5°	77.8	77.8	79.1	81.8	84.4	85.7	89.7	92.3	95.0	98.9	104.2
80°	58.0	59.4	59.4	62.0	62.0	63.3	64.6	68.6	71.2	73.9	76.5
82.5°	39.6	42.2	42.2	42.2	43.5	44.8	46.2	46.2	48.8	50.1	54.1
85°	23.7	25.1	25.1	25.1	23.7	26.4	26.4	27.7	27.7	27.7	29.0
87.5°	9.2	7.9	9.2	9.2	9.2	10.6	9.2	9.2	10.6	11.9	11.9
90°	7.9	7.6	7.2	6.9	6.5	5.9	5.3	4.8	4.2	3.9	3.5
92.5°	8.4	8.3	8.1	8.0	7.8	7.6	7.4	7.1	6.9	6.8	6.9
95°	14.1	13.8	13.4	13.1	12.7	12.2	11.7	11.2	10.7	10.4	11.6
97.5°	17.5	17.3	17.0	16.8	16.6	15.4	14.3	13.1	12.0	11.4	14.4
100°	20.8	20.2	19.7	19.1	18.5	17.3	16.1	14.8	13.6	13.0	18.0
102.5°	22.4	21.6	20.8	20.0	19.2	32.4	45.5	58.7	71.8	78.4	78.5
105°	23.0	22.2	21.4	20.6	19.8	39.6	59.3	79.1	98.8	108.7	107.6
107.5°	23.7	22.9	22.1	21.3	20.5	44.9	69.2	93.6	117.9	130.1	129.2
110°	28.0	35.2	42.5	49.7	56.9	77.8	98.7	119.6	140.5	151.0	150.2

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	40.7	71.8	103.0	134.1	165.3	166.5	167.7	169.0	170.2	170.8	170.2
115°	66.8	100.3	133.8	167.2	200.7	198.9	197.1	195.3	193.5	192.6	192.0
117.5°	177.0	187.3	197.6	208.0	218.3	217.1	215.9	214.6	213.4	212.8	212.1
120°	242.0	241.1	240.2	239.4	238.5	237.2	235.9	234.6	233.3	232.6	232.1
122.5°	259.4	259.0	258.5	258.1	257.7	256.3	254.8	253.4	251.9	251.2	250.6
125°	276.9	276.4	275.9	275.4	274.9	273.5	272.1	270.8	269.4	268.7	268.2
127.5°	293.7	293.0	292.3	291.6	290.9	289.8	288.7	287.6	286.5	286.0	285.5
130°	309.3	308.5	307.8	307.0	306.2	305.4	304.6	303.8	303.0	302.6	302.0
132.5°	324.1	323.4	322.8	322.1	321.5	320.7	319.9	319.1	318.3	317.9	317.4
135°	338.3	337.6	336.9	336.1	335.4	334.8	334.1	333.5	332.8	332.5	331.9
137.5°	351.6	350.9	350.2	349.5	348.8	348.1	347.3	346.6	345.9	345.5	345.1
140°	364.4	363.7	363.1	362.4	361.8	361.0	360.2	359.4	358.6	358.2	357.9
142.5°	376.1	375.5	375.0	374.4	373.8	372.9	371.9	371.0	370.1	369.6	369.3
145°	386.9	386.4	385.9	385.4	384.9	383.7	382.5	381.2	380.0	379.4	379.4
147.5°	396.4	396.1	395.7	395.4	395.0	393.8	392.6	391.3	390.1	389.5	389.6
150°	405.5	405.1	404.6	404.2	403.8	402.6	401.5	400.3	399.2	398.6	398.8
152.5°	413.7	413.2	412.8	412.3	411.9	410.8	409.7	408.6	407.5	407.0	407.3
155°	420.8	420.4	419.9	419.5	419.1	418.2	417.4	416.5	415.6	415.2	415.5
157.5°	427.2	426.7	426.2	425.7	425.2	424.6	423.9	423.3	422.6	422.3	422.6
160°	432.5	432.1	431.6	431.2	430.8	430.4	429.9	429.5	429.0	428.8	429.0
162.5°	437.7	437.2	436.7	436.2	435.7	435.3	434.9	434.6	434.2	434.0	434.2
165°	441.6	441.1	440.6	440.1	439.6	439.4	439.2	438.9	438.7	438.6	438.8
167.5°	445.1	444.6	444.1	443.6	443.1	442.9	442.7	442.5	442.3	442.2	442.4
170°	447.7	447.2	446.7	446.2	445.7	445.6	445.4	445.3	445.2	445.1	445.3
172.5°	449.7	449.2	448.7	448.2	447.7	447.5	447.4	447.2	447.1	447.0	447.2
175°	451.0	450.5	450.0	449.5	449.0	448.8	448.7	448.5	448.4	448.3	448.6
177.5°	451.3	450.8	450.3	449.8	449.3	449.2	449.2	449.1	449.0	449.0	449.3
180°	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6	449.6

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1898.0	1898.0	1898.0	1898.0
2.5°	1863.7	1859.8	1883.5	1909.9
5°	1825.5	1832.1	1862.4	1899.3
7.5°	1785.9	1800.4	1836.0	1884.8
10°	1730.5	1756.9	1811.0	1861.1
12.5°	1676.4	1712.0	1763.5	1822.8
15°	1615.8	1655.3	1718.6	1789.9
17.5°	1548.5	1593.3	1667.2	1745.0
20°	1477.3	1536.6	1614.4	1698.8
22.5°	1398.1	1469.3	1549.8	1643.4
25°	1321.6	1399.4	1479.9	1588.1
27.5°	1246.4	1322.9	1412.6	1522.1
30°	1171.3	1241.2	1337.4	1454.8
32.5°	1090.8	1163.3	1264.9	1384.9
35°	1016.9	1089.5	1184.4	1303.2
37.5°	937.8	1015.6	1106.6	1229.3
40°	845.5	936.5	1024.8	1142.2
42.5°	769.0	865.3	951.0	1061.8
45°	708.3	799.3	870.5	978.7
47.5°	651.6	725.4	798.0	898.2
50°	597.5	654.2	729.4	819.1
52.5°	542.1	590.9	655.5	739.9
55°	492.0	538.1	596.2	660.8
57.5°	445.8	478.8	536.8	594.9
60°	394.4	428.7	473.5	522.3
62.5°	350.8	377.2	419.4	460.3
65°	304.7	329.7	361.4	399.7
67.5°	262.5	284.9	310.0	340.3
70°	224.2	241.4	259.8	286.2
72.5°	183.3	201.8	219.0	240.1
75°	150.4	158.3	172.8	187.3
77.5°	116.1	126.6	134.5	146.4
80°	83.1	92.3	95.0	104.2
82.5°	55.4	60.7	65.9	68.6
85°	31.7	34.3	39.6	40.9
87.5°	11.9	13.2	15.8	18.5
90°	2.7	1.9	1.1	0.3
92.5°	7.2	7.5	7.8	8.1
95°	14.0	16.3	18.7	21.1
97.5°	20.3	26.2	32.2	38.1
100°	27.9	37.8	47.7	57.6
102.5°	78.6	78.8	78.9	79.1
105°	105.4	103.3	101.1	98.9
107.5°	127.4	125.6	123.8	122.0
110°	148.7	147.2	145.6	144.1

TEST NUMBER: P1000106

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_3000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	168.9	167.6	166.3	165.0
115°	190.8	189.5	188.3	187.1
117.5°	210.6	209.2	207.7	206.3
120°	231.0	229.9	228.9	227.8
122.5°	249.5	248.3	247.2	246.0
125°	267.3	266.4	265.4	264.5
127.5°	284.5	283.4	282.4	281.4
130°	300.9	299.7	298.6	297.4
132.5°	316.5	315.5	314.6	313.6
135°	330.8	329.6	328.5	327.3
137.5°	344.2	343.3	342.5	341.6
140°	357.3	356.8	356.2	355.6
142.5°	368.8	368.3	367.8	367.3
145°	379.5	379.6	379.6	379.7
147.5°	389.8	390.0	390.2	390.4
150°	399.3	399.8	400.3	400.8
152.5°	407.9	408.4	409.0	409.6
155°	416.2	416.8	417.5	418.1
157.5°	423.2	423.7	424.3	424.9
160°	429.5	429.9	430.4	430.8
162.5°	434.7	435.1	435.6	436.0
165°	439.2	439.7	440.1	440.5
167.5°	442.8	443.3	443.7	444.1
170°	445.7	446.2	446.6	447.0
172.5°	447.7	448.1	448.6	449.0
175°	449.1	449.6	450.1	450.6
177.5°	449.8	450.3	450.8	451.3
180°	449.6	449.6	449.6	449.6

(END OF REPORT)