

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: P1000109

Luminaire Tested: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000109
REPORT IS A COMBINATION OF REPORTS P988668 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_5000K
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

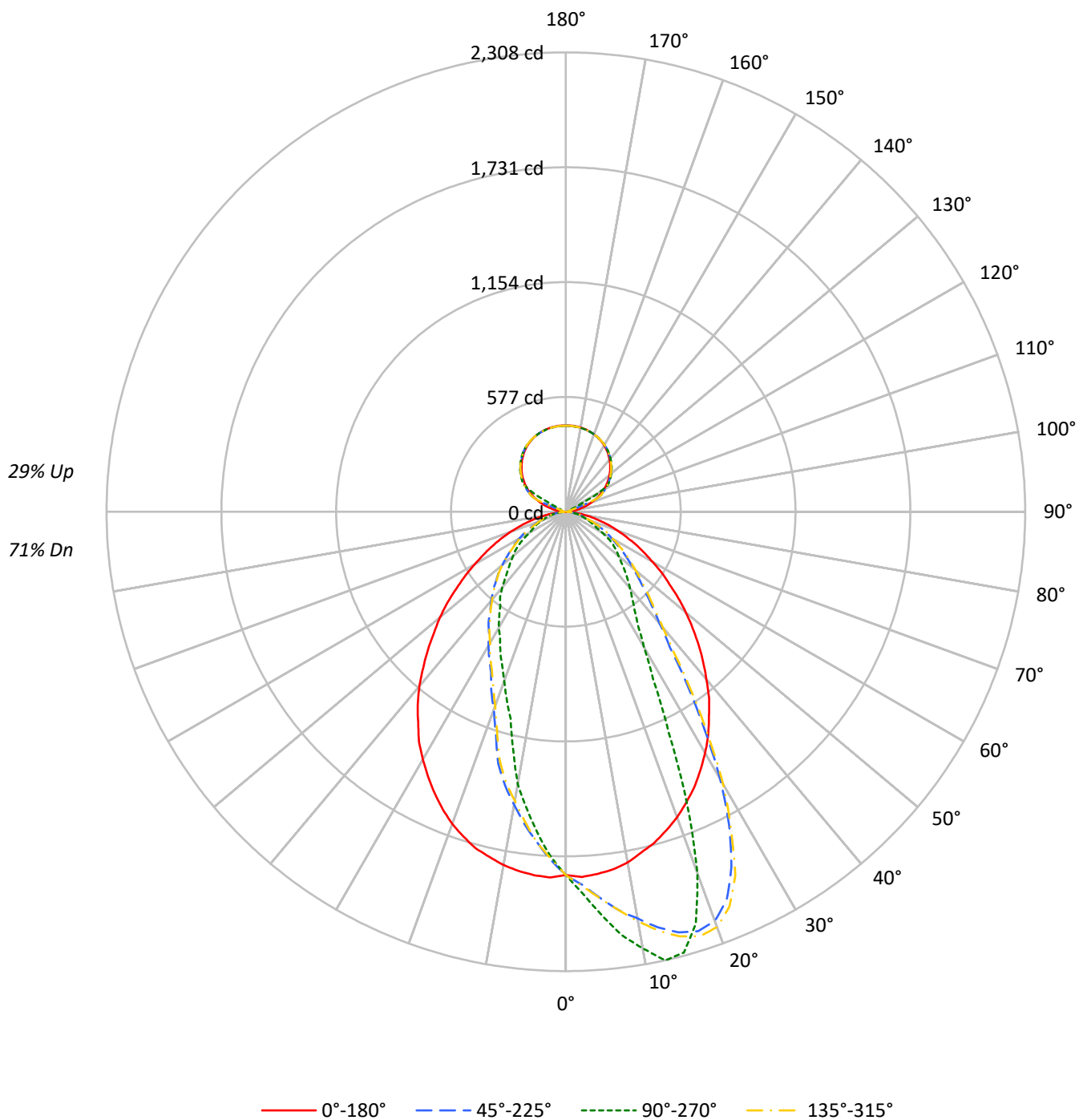
Lumens per Lamp: N/A
Luminaire Lumens: 4422.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
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°	28890	28890	28890	28890
5°	28958	30686	29058	24515
10°	28639	32435	28842	20244
15°	28017	32444	28492	15208
20°	27270	26818	27863	12547
25°	26363	16758	26932	10673
30°	25205	10730	25892	9189
35°	23798	8245	24569	7863
40°	22231	6931	23180	6879
45°	20554	5899	21412	5775
50°	18834	5012	19714	4995
55°	16931	4355	17845	4298
60°	15242	3321	16049	3282
65°	13662	2499	14472	2835
70°	11918	1997	12854	2310
75°	10075	1529	10998	1748
80°	8000	1041	8607	1146
85°	5551	536	6088	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 26428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	3.9
10°-20°	483.2	10.9
20°-30°	621.9	14.1
30°-40°	590.0	13.3
40°-50°	505.6	11.4
50°-60°	385.1	8.7
60°-70°	242.8	5.5
70°-80°	121.1	2.7
80°-90°	31.9	0.7
90°-100°	14.3	0.3
100°-110°	53.1	1.2
110°-120°	140.9	3.2
120°-130°	233.7	5.3
130°-140°	248.3	5.6
140°-150°	230.7	5.2
150°-160°	185.5	4.2
160°-170°	119.5	2.7
170°-180°	41.1	0.9
0°-30°	1278.2	28.9
0°-40°	1868.2	42.2
0°-60°	2758.9	62.4
0°-90°	3154.8	71.3
90°-120°	208.3	4.7
90°-150°	921.1	20.8
90°-180°	1267.0	28.7
0°-180°	4422.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1825	1825	1825	1825	1825	
5°	1826	2031	1833	1622	1826	173
15°	1721	2292	1750	1074	1721	484
25°	1527	1223	1560	779	1527	701
35°	1253	602	1294	574	1253	784
45°	941	418	980	410	941	726
55°	635	290	670	287	635	573
65°	384	151	407	171	384	381
75°	180	80	197	91	180	195
85°	39	23	43	24	39	45
90°	0	8	0	8	0	4
95°	20	13	20	13	20	24
105°	95	24	95	24	95	102
115°	180	26	180	26	180	177
125°	254	267	254	267	254	227
135°	315	325	315	325	315	243
145°	365	371	365	371	365	228
155°	402	402	402	402	402	185
165°	424	423	424	423	424	120
175°	433	431	433	431	433	41
180°	432	432	432	432	432	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1836.5	1844.1	1847.9	1853.0	1864.4	1872.0	1883.4	1886.0	1884.7	1889.8	1875.8
5°	1826.4	1842.9	1858.1	1870.8	1891.1	1903.7	1917.7	1934.2	1938.0	1957.0	1945.6
7.5°	1812.4	1836.5	1858.1	1883.4	1913.9	1930.4	1951.9	1977.3	1988.7	2011.5	2017.9
10°	1789.6	1823.8	1860.6	1887.2	1929.1	1958.3	1978.6	2019.2	2045.8	2080.0	2075.0
12.5°	1752.8	1797.2	1846.7	1891.1	1945.6	1964.6	2002.7	2044.5	2078.8	2110.5	2138.4
15°	1721.1	1771.8	1826.4	1880.9	1943.1	1978.6	2016.6	2071.2	2107.9	2163.7	2187.8
17.5°	1678.0	1742.7	1807.3	1868.2	1941.8	1982.4	2029.3	2082.6	2137.1	2190.4	2209.4
20°	1633.6	1703.3	1773.1	1855.5	1939.2	1978.6	2026.8	2092.7	2146.0	2187.8	2187.8
22.5°	1580.3	1665.3	1745.2	1823.8	1915.2	1972.2	2021.7	2099.1	2137.1	2146.0	2111.7
25°	1527.0	1612.0	1699.5	1797.2	1901.2	1951.9	2007.7	2080.0	2092.7	2057.2	1968.4
27.5°	1463.6	1558.8	1657.7	1763.0	1872.0	1935.4	1986.2	2034.4	2010.3	1915.2	1776.9
30°	1398.9	1501.7	1613.3	1713.5	1845.4	1903.7	1946.9	1960.8	1884.7	1730.0	1551.1
32.5°	1331.7	1431.9	1549.9	1670.4	1803.5	1859.3	1887.2	1850.5	1711.0	1515.6	1297.5
35°	1253.1	1366.0	1489.0	1614.6	1746.5	1788.3	1804.8	1714.8	1535.9	1283.5	1066.7
37.5°	1182.1	1294.9	1426.9	1555.0	1683.0	1705.9	1689.4	1548.6	1321.6	1071.7	859.9
40°	1098.4	1218.8	1348.2	1491.5	1596.8	1603.1	1562.6	1379.9	1098.4	863.7	733.1
42.5°	1021.0	1142.7	1272.1	1418.0	1497.9	1476.3	1421.8	1182.1	917.0	744.5	639.2
45°	941.1	1056.5	1196.0	1325.4	1382.5	1331.7	1249.3	994.4	769.9	640.5	559.3
47.5°	863.7	971.5	1109.8	1234.1	1244.2	1187.1	1089.5	833.3	667.1	563.1	497.2
50°	787.6	895.4	1024.8	1127.5	1117.4	1038.7	928.4	724.2	579.6	497.2	442.6
52.5°	711.5	809.2	934.7	1015.9	972.8	896.7	787.6	613.9	506.1	433.8	391.9
55°	635.4	726.7	834.5	901.8	833.3	745.8	668.4	526.3	438.8	380.5	348.8
57.5°	572.0	644.3	743.2	783.8	701.4	632.9	565.7	452.8	380.5	338.6	301.9
60°	502.3	568.2	649.4	673.5	588.5	532.7	475.6	383.0	326.0	289.2	265.1
62.5°	442.6	497.2	559.3	559.3	484.5	442.6	399.5	320.9	274.0	244.8	233.4
65°	384.3	423.6	468.0	462.9	399.5	362.7	328.5	265.1	229.6	209.3	197.9
67.5°	327.2	357.7	386.8	369.1	323.4	291.7	260.0	214.3	190.2	176.3	161.1
70°	275.2	299.3	314.5	298.1	252.4	225.8	202.9	172.5	153.5	135.7	126.8
72.5°	230.8	241.0	246.1	225.8	187.7	172.5	156.0	134.4	118.0	109.1	106.5
75°	180.1	189.0	185.2	170.0	138.2	126.8	114.1	98.9	95.1	90.1	87.5
77.5°	140.8	140.8	134.4	120.5	98.9	90.1	85.0	77.4	73.6	72.3	69.8
80°	100.2	98.9	95.1	79.9	67.2	62.1	62.1	57.1	55.8	53.3	53.3
82.5°	66.0	66.0	60.9	48.2	44.4	43.1	41.9	39.3	39.3	38.0	38.0
85°	39.3	36.8	30.4	26.6	25.4	25.4	24.1	22.8	24.1	22.8	22.8
87.5°	17.8	14.0	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
90°	0.3	1.1	1.9	2.6	3.4	3.8	4.1	4.6	5.2	5.7	6.3
92.5°	7.8	7.5	7.3	7.0	6.7	6.6	6.7	6.9	7.1	7.3	7.5
95°	20.3	18.0	15.7	13.4	11.1	10.0	10.2	10.7	11.2	11.7	12.2
97.5°	36.6	30.9	25.2	19.5	13.8	10.9	11.5	12.6	13.7	14.9	16.0
100°	55.4	45.9	36.3	26.8	17.3	12.5	13.1	14.3	15.4	16.6	17.8
102.5°	76.0	75.9	75.7	75.6	75.5	75.4	69.1	56.4	43.8	31.1	18.5
105°	95.1	97.2	99.3	101.4	103.5	104.5	95.0	76.0	57.1	38.1	19.1
107.5°	117.3	119.0	120.8	122.5	124.2	125.1	113.4	90.0	66.5	43.1	19.7
110°	138.6	140.0	141.5	142.9	144.4	145.1	135.1	115.0	94.9	74.8	54.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	158.6	159.8	161.1	162.3	163.6	164.2	163.6	162.4	161.3	160.1	158.9
115°	179.8	181.0	182.2	183.4	184.6	185.2	186.1	187.8	189.5	191.3	193.0
117.5°	198.3	199.7	201.1	202.5	203.9	204.6	205.2	206.4	207.5	208.7	209.9
120°	218.9	219.9	221.0	222.0	223.1	223.6	224.2	225.5	226.8	228.0	229.3
122.5°	236.5	237.6	238.7	239.8	240.9	241.5	242.2	243.6	244.9	246.3	247.7
125°	254.3	255.2	256.1	257.0	257.9	258.4	259.1	260.4	261.7	263.0	264.3
127.5°	270.6	271.6	272.5	273.5	274.4	274.9	275.4	276.5	277.5	278.6	279.6
130°	285.9	287.0	288.1	289.2	290.3	290.9	291.3	292.0	292.8	293.5	294.3
132.5°	301.5	302.4	303.3	304.2	305.1	305.6	306.0	306.7	307.5	308.2	309.0
135°	314.7	315.8	316.9	318.0	319.1	319.7	320.0	320.6	321.3	321.9	322.5
137.5°	328.4	329.2	330.1	330.9	331.8	332.2	332.5	333.2	333.9	334.6	335.3
140°	341.9	342.5	343.0	343.6	344.1	344.4	344.8	345.5	346.3	347.0	347.8
142.5°	353.1	353.6	354.1	354.6	355.1	355.3	355.8	356.7	357.6	358.5	359.4
145°	365.0	364.9	364.9	364.8	364.7	364.7	365.3	366.5	367.6	368.8	370.0
147.5°	375.3	375.1	374.9	374.7	374.5	374.4	375.0	376.2	377.3	378.5	379.7
150°	385.3	384.8	384.4	383.9	383.4	383.2	383.8	384.9	386.0	387.1	388.2
152.5°	393.8	393.2	392.7	392.1	391.6	391.3	391.8	392.9	393.9	395.0	396.0
155°	401.9	401.3	400.7	400.0	399.4	399.1	399.5	400.4	401.2	402.1	402.9
157.5°	408.5	407.9	407.4	406.8	406.3	406.0	406.3	406.9	407.6	408.2	408.8
160°	414.1	413.7	413.3	412.8	412.4	412.2	412.4	412.8	413.3	413.7	414.1
162.5°	419.1	418.7	418.3	417.8	417.4	417.2	417.4	417.7	418.1	418.4	418.8
165°	423.5	423.1	422.7	422.2	421.8	421.6	421.7	421.9	422.2	422.4	422.6
167.5°	426.9	426.5	426.1	425.7	425.3	425.1	425.2	425.4	425.6	425.8	426.0
170°	429.8	429.4	429.0	428.5	428.1	427.9	428.0	428.1	428.2	428.4	428.5
172.5°	431.6	431.2	430.8	430.4	430.0	429.8	429.9	430.0	430.1	430.3	430.4
175°	433.2	432.7	432.2	431.7	431.2	431.0	431.1	431.2	431.3	431.5	431.6
177.5°	433.8	433.3	432.8	432.3	431.8	431.6	431.6	431.7	431.8	431.8	431.9
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1889.8	1892.3	1896.1	1913.9	1916.4	1921.5	1919.0	1919.0	1920.2	1917.7	1919.0
5°	1971.0	1974.8	1993.8	2015.3	2020.4	2015.3	2021.7	2030.6	2030.6	2030.6	2028.0
7.5°	2047.1	2061.0	2082.6	2114.3	2120.6	2127.0	2138.4	2130.8	2133.3	2144.7	2140.9
10°	2120.6	2140.9	2165.0	2191.6	2205.6	2214.5	2219.5	2231.0	2257.6	2227.2	2238.6
12.5°	2190.4	2219.5	2244.9	2274.1	2284.2	2295.6	2299.4	2309.6	2309.6	2308.3	2317.2
15°	2236.0	2262.7	2285.5	2304.5	2307.1	2304.5	2302.0	2303.3	2307.1	2291.8	2300.7
17.5°	2246.2	2248.7	2256.3	2248.7	2250.0	2223.4	2208.1	2204.3	2168.8	2170.1	2199.3
20°	2196.7	2153.6	2142.2	2100.3	2075.0	2006.5	2003.9	1984.9	1910.1	1932.9	1927.8
22.5°	2061.0	1987.4	1889.8	1841.6	1817.5	1745.2	1689.4	1650.1	1623.4	1596.8	1585.4
25°	1882.2	1763.0	1624.7	1529.6	1515.6	1448.4	1345.7	1297.5	1240.4	1222.7	1253.1
27.5°	1651.3	1496.6	1340.6	1194.7	1168.1	1107.2	1055.2	1021.0	955.0	951.2	953.8
30°	1338.1	1182.1	1051.4	956.3	890.4	862.5	828.2	802.8	776.2	786.4	788.9
32.5°	1099.6	951.2	829.5	778.7	748.3	730.5	701.4	684.9	673.5	669.7	668.4
35°	873.9	774.9	720.4	670.9	653.2	640.5	618.9	611.3	601.2	602.4	602.4
37.5°	748.3	665.9	625.3	599.9	583.4	577.1	563.1	555.5	549.2	546.6	550.4
40°	645.6	588.5	563.1	540.3	526.3	523.8	516.2	507.3	499.7	501.0	504.8
42.5°	570.7	537.8	507.3	489.6	479.4	475.6	469.3	462.9	462.9	459.1	457.9
45°	511.1	484.5	459.1	442.6	436.3	431.2	423.6	422.3	417.3	418.5	419.8
47.5°	457.9	436.3	417.3	400.8	394.4	393.2	385.6	380.5	380.5	379.2	378.0
50°	409.7	388.1	371.6	362.7	353.9	351.3	350.1	348.8	346.2	346.2	347.5
52.5°	370.3	348.8	336.1	328.5	323.4	320.9	320.9	319.6	319.6	319.6	318.3
55°	327.2	309.5	299.3	296.8	294.2	293.0	291.7	289.2	287.9	290.4	287.9
57.5°	286.6	280.3	271.4	268.9	262.5	262.5	258.7	256.2	253.7	256.2	256.2
60°	254.9	246.1	241.0	233.4	228.3	223.2	216.9	215.6	213.1	211.8	210.5
62.5°	222.0	214.3	201.7	190.2	182.6	177.6	175.0	173.8	173.8	172.5	172.5
65°	185.2	167.4	161.1	157.3	156.0	154.7	152.2	150.9	152.2	150.9	152.2
67.5°	144.6	142.1	138.2	135.7	134.4	133.2	133.2	131.9	131.9	131.9	131.9
70°	125.6	119.2	118.0	115.4	115.4	114.1	114.1	114.1	114.1	112.9	115.4
72.5°	104.0	100.2	98.9	97.7	97.7	97.7	96.4	96.4	96.4	95.1	96.4
75°	85.0	83.7	81.2	81.2	79.9	81.2	79.9	79.9	78.6	79.9	79.9
77.5°	68.5	67.2	66.0	66.0	64.7	64.7	64.7	64.7	64.7	64.7	66.0
80°	52.0	50.7	49.5	50.7	49.5	50.7	49.5	49.5	50.7	49.5	49.5
82.5°	38.0	36.8	36.8	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
85°	22.8	21.6	21.6	22.8	21.6	22.8	21.6	21.6	21.6	22.8	22.8
87.5°	10.1	11.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	11.4
90°	6.6	7.0	7.3	7.6	7.8	7.9	8.0	8.1	8.3	8.4	8.3
92.5°	7.6	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.3	8.4	8.3
95°	12.6	12.9	13.3	13.6	13.8	13.8	13.7	13.6	13.5	13.4	13.5
97.5°	16.2	16.4	16.6	16.8	16.9	16.9	17.0	17.1	17.1	17.2	17.1
100°	18.4	18.9	19.5	20.0	20.3	20.4	20.5	20.7	20.8	21.0	20.8
102.5°	19.3	20.0	20.8	21.5	21.9	22.0	22.2	22.4	22.6	22.8	22.6
105°	19.9	20.6	21.4	22.1	22.5	22.6	22.9	23.2	23.5	23.8	23.5
107.5°	20.5	21.2	22.0	22.7	23.1	23.2	23.5	23.8	24.1	24.4	24.1
110°	47.8	40.8	33.9	27.0	23.5	23.6	23.9	24.2	24.4	24.7	24.4

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	128.9	99.0	69.0	39.1	24.1	24.2	24.4	24.6	24.8	25.0	24.8
115°	160.8	128.6	96.5	64.3	48.2	45.7	40.7	35.6	30.6	25.6	30.6
117.5°	199.9	190.0	180.0	170.1	165.1	156.0	137.8	119.6	101.4	83.2	101.4
120°	230.1	230.9	231.8	232.6	233.0	228.3	218.9	209.6	200.2	190.8	200.2
122.5°	248.1	248.5	249.0	249.4	249.6	249.6	249.7	249.8	249.8	249.9	249.8
125°	264.8	265.3	265.8	266.3	266.5	266.6	266.8	267.0	267.2	267.4	267.2
127.5°	280.3	281.0	281.7	282.4	282.8	282.8	282.9	283.0	283.0	283.1	283.0
130°	295.1	295.9	296.6	297.4	297.8	297.8	297.7	297.6	297.6	297.5	297.6
132.5°	309.6	310.2	310.9	311.5	311.8	311.8	311.7	311.6	311.6	311.5	311.6
135°	323.2	323.9	324.6	325.3	325.6	325.5	325.4	325.3	325.1	325.0	325.1
137.5°	336.0	336.7	337.4	338.1	338.4	338.3	338.1	337.9	337.7	337.5	337.7
140°	348.4	349.0	349.7	350.3	350.6	350.4	350.1	349.8	349.4	349.1	349.4
142.5°	360.0	360.5	361.1	361.6	361.9	361.7	361.4	361.0	360.7	360.3	360.7
145°	370.5	371.0	371.5	372.0	372.2	372.0	371.7	371.3	371.0	370.6	371.0
147.5°	380.1	380.4	380.8	381.1	381.3	381.2	380.9	380.6	380.3	380.0	380.3
150°	388.6	389.0	389.4	389.8	390.0	389.8	389.5	389.2	388.8	388.5	388.8
152.5°	396.4	396.8	397.3	397.7	397.9	397.7	397.2	396.7	396.2	395.7	396.2
155°	403.3	403.7	404.1	404.5	404.7	404.4	403.9	403.3	402.8	402.2	402.8
157.5°	409.3	409.8	410.3	410.8	411.0	410.7	410.2	409.6	409.1	408.5	409.1
160°	414.5	414.9	415.4	415.8	416.0	415.8	415.3	414.8	414.3	413.8	414.3
162.5°	419.3	419.8	420.3	420.8	421.0	420.7	420.1	419.4	418.8	418.2	418.8
165°	423.1	423.6	424.1	424.6	424.8	424.6	424.1	423.6	423.1	422.6	423.1
167.5°	426.5	427.0	427.5	428.0	428.2	427.9	427.3	426.6	426.0	425.4	426.0
170°	429.0	429.5	430.0	430.5	430.7	430.4	429.8	429.1	428.5	427.9	428.5
172.5°	430.9	431.4	431.9	432.4	432.6	432.3	431.7	431.0	430.4	429.8	430.4
175°	432.1	432.6	433.1	433.6	433.8	433.5	432.8	432.1	431.4	430.7	431.4
177.5°	432.4	432.9	433.4	433.9	434.1	433.8	433.2	432.5	431.9	431.3	431.9
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1924.0	1915.2	1912.6	1915.2	1912.6	1913.9	1905.0	1872.0	1880.9	1867.0	1874.6
5°	2033.1	2025.5	2009.0	2006.5	2003.9	2001.4	1988.7	1959.5	1948.1	1929.1	1927.8
7.5°	2137.1	2137.1	2124.4	2115.5	2104.1	2095.3	2078.8	2035.6	2017.9	1995.1	1982.4
10°	2239.8	2206.9	2220.8	2211.9	2184.0	2179.0	2148.5	2123.2	2088.9	2066.1	2045.8
12.5°	2313.4	2303.3	2290.6	2283.0	2275.4	2258.9	2238.6	2173.9	2156.1	2110.5	2087.6
15°	2310.9	2304.5	2308.3	2308.3	2305.8	2302.0	2285.5	2238.6	2208.1	2163.7	2124.4
17.5°	2186.6	2203.1	2219.5	2231.0	2256.3	2267.7	2283.0	2255.1	2236.0	2198.0	2156.1
20°	1969.7	2010.3	2058.5	2068.6	2091.4	2158.7	2189.1	2213.2	2220.8	2208.1	2173.9
22.5°	1667.8	1702.1	1818.8	1816.2	1849.2	1929.1	2017.9	2090.2	2147.3	2179.0	2166.3
25°	1306.4	1354.6	1416.7	1463.6	1571.4	1690.7	1801.0	1916.4	2015.3	2102.9	2124.4
27.5°	988.0	1051.4	1100.9	1163.0	1217.6	1358.4	1500.4	1680.5	1795.9	1962.1	2048.3
30°	799.0	828.2	877.7	906.8	933.5	1041.3	1202.4	1379.9	1582.9	1774.4	1922.8
32.5°	682.4	702.6	739.4	752.1	780.0	852.3	953.8	1116.1	1325.4	1557.5	1752.8
35°	612.6	634.2	641.8	653.2	676.0	721.7	791.4	909.4	1098.4	1325.4	1558.8
37.5°	553.0	564.4	586.0	593.6	601.2	635.4	682.4	764.8	890.4	1076.8	1335.5
40°	511.1	517.5	528.9	535.2	540.3	564.4	606.3	662.1	754.6	896.7	1135.1
42.5°	466.7	474.3	482.0	489.6	495.9	514.9	540.3	593.6	655.7	763.5	936.0
45°	423.6	428.7	437.6	442.6	451.5	466.7	489.6	526.3	582.2	650.6	790.2
47.5°	384.3	390.6	394.4	400.8	407.1	423.6	445.2	469.3	514.9	582.2	683.6
50°	348.8	356.4	361.5	362.7	367.8	383.0	400.8	427.4	456.6	508.6	597.4
52.5°	323.4	324.7	328.5	333.6	332.3	341.2	357.7	378.0	408.4	450.3	514.9
55°	294.2	298.1	300.6	301.9	301.9	309.5	318.3	337.4	361.5	395.7	450.3
57.5°	257.5	261.3	268.9	271.4	275.2	279.0	282.8	295.5	315.8	348.8	393.2
60°	219.4	222.0	229.6	234.6	237.2	247.3	252.4	262.5	274.0	298.1	339.9
62.5°	176.3	178.8	182.6	187.7	192.8	208.0	220.7	230.8	239.7	256.2	290.4
65°	153.5	154.7	157.3	158.5	159.8	166.1	177.6	191.5	208.0	220.7	241.0
67.5°	133.2	134.4	135.7	138.2	139.5	140.8	145.9	149.7	166.1	183.9	199.1
70°	114.1	116.7	118.0	118.0	119.2	121.8	124.3	129.4	134.4	143.3	162.3
72.5°	96.4	97.7	100.2	100.2	100.2	102.7	105.3	107.8	110.3	115.4	123.0
75°	79.9	82.4	82.4	82.4	83.7	83.7	86.2	88.8	91.3	95.1	97.7
77.5°	66.0	66.0	66.0	66.0	67.2	67.2	68.5	71.0	72.3	73.6	76.1
80°	49.5	50.7	50.7	50.7	52.0	52.0	52.0	54.5	55.8	55.8	58.3
82.5°	36.8	36.8	36.8	38.0	36.8	38.0	38.0	39.3	38.0	39.3	40.6
85°	22.8	22.8	22.8	24.1	24.1	24.1	24.1	24.1	24.1	24.1	25.4
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	12.7	11.4	11.4
90°	8.1	8.0	7.9	7.8	7.6	7.3	7.0	6.6	6.3	5.7	5.2
92.5°	8.3	8.2	8.1	8.1	8.0	7.9	7.8	7.6	7.5	7.3	7.1
95°	13.6	13.7	13.8	13.8	13.6	13.3	12.9	12.6	12.2	11.7	11.2
97.5°	17.1	17.0	16.9	16.9	16.8	16.6	16.4	16.2	16.0	14.9	13.7
100°	20.7	20.5	20.4	20.3	20.0	19.5	18.9	18.4	17.8	16.6	15.4
102.5°	22.4	22.2	22.0	21.9	21.5	20.8	20.0	19.3	18.5	31.1	43.8
105°	23.2	22.9	22.6	22.5	22.1	21.4	20.6	19.9	19.1	38.1	57.1
107.5°	23.8	23.5	23.2	23.1	22.7	22.0	21.2	20.5	19.7	43.1	66.5
110°	24.2	23.9	23.6	23.5	27.0	33.9	40.8	47.8	54.7	74.8	94.9

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	24.6	24.4	24.2	24.1	39.1	69.0	99.0	128.9	158.9	160.1	161.3
115°	35.6	40.7	45.7	48.2	64.3	96.5	128.6	160.8	193.0	191.3	189.5
117.5°	119.6	137.8	156.0	165.1	170.1	180.0	190.0	199.9	209.9	208.7	207.5
120°	209.6	218.9	228.3	233.0	232.6	231.8	230.9	230.1	229.3	228.0	226.8
122.5°	249.8	249.7	249.6	249.6	249.4	249.0	248.5	248.1	247.7	246.3	244.9
125°	267.0	266.8	266.6	266.5	266.3	265.8	265.3	264.8	264.3	263.0	261.7
127.5°	283.0	282.9	282.8	282.8	282.4	281.7	281.0	280.3	279.6	278.6	277.5
130°	297.6	297.7	297.8	297.8	297.4	296.6	295.9	295.1	294.3	293.5	292.8
132.5°	311.6	311.7	311.8	311.8	311.5	310.9	310.2	309.6	309.0	308.2	307.5
135°	325.3	325.4	325.5	325.6	325.3	324.6	323.9	323.2	322.5	321.9	321.3
137.5°	337.9	338.1	338.3	338.4	338.1	337.4	336.7	336.0	335.3	334.6	333.9
140°	349.8	350.1	350.4	350.6	350.3	349.7	349.0	348.4	347.8	347.0	346.3
142.5°	361.0	361.4	361.7	361.9	361.6	361.1	360.5	360.0	359.4	358.5	357.6
145°	371.3	371.7	372.0	372.2	372.0	371.5	371.0	370.5	370.0	368.8	367.6
147.5°	380.6	380.9	381.2	381.3	381.1	380.8	380.4	380.1	379.7	378.5	377.3
150°	389.2	389.5	389.8	390.0	389.8	389.4	389.0	388.6	388.2	387.1	386.0
152.5°	396.7	397.2	397.7	397.9	397.7	397.3	396.8	396.4	396.0	395.0	393.9
155°	403.3	403.9	404.4	404.7	404.5	404.1	403.7	403.3	402.9	402.1	401.2
157.5°	409.6	410.2	410.7	411.0	410.8	410.3	409.8	409.3	408.8	408.2	407.6
160°	414.8	415.3	415.8	416.0	415.8	415.4	414.9	414.5	414.1	413.7	413.3
162.5°	419.4	420.1	420.7	421.0	420.8	420.3	419.8	419.3	418.8	418.4	418.1
165°	423.6	424.1	424.6	424.8	424.6	424.1	423.6	423.1	422.6	422.4	422.2
167.5°	426.6	427.3	427.9	428.2	428.0	427.5	427.0	426.5	426.0	425.8	425.6
170°	429.1	429.8	430.4	430.7	430.5	430.0	429.5	429.0	428.5	428.4	428.2
172.5°	431.0	431.7	432.3	432.6	432.4	431.9	431.4	430.9	430.4	430.3	430.1
175°	432.1	432.8	433.5	433.8	433.6	433.1	432.6	432.1	431.6	431.5	431.3
177.5°	432.5	433.2	433.8	434.1	433.9	433.4	432.9	432.4	431.9	431.8	431.8
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1863.1	1856.8	1856.8	1853.0	1853.0	1832.7	1832.7	1839.1	1831.4	1822.6	1809.9
5°	1911.3	1897.4	1893.6	1888.5	1872.0	1846.7	1836.5	1832.7	1817.5	1798.5	1776.9
7.5°	1957.0	1934.2	1922.8	1911.3	1889.8	1854.3	1834.0	1820.0	1797.2	1768.0	1740.1
10°	2001.4	1972.2	1943.1	1929.1	1898.7	1854.3	1825.1	1802.3	1769.3	1730.0	1690.7
12.5°	2042.0	1981.1	1976.0	1948.1	1903.7	1853.0	1808.6	1775.6	1733.8	1688.1	1642.5
15°	2077.5	2015.3	1984.9	1959.5	1901.2	1837.8	1790.9	1750.3	1694.5	1642.5	1586.7
17.5°	2095.3	2028.0	2007.7	1965.9	1906.3	1823.8	1760.4	1711.0	1650.1	1587.9	1524.5
20°	2113.0	2034.4	2001.4	1972.2	1891.1	1797.2	1726.2	1669.1	1601.9	1528.3	1458.6
22.5°	2121.9	2034.4	1995.1	1954.5	1875.8	1768.0	1684.3	1617.1	1538.5	1463.6	1379.9
25°	2106.7	2026.8	1979.8	1938.0	1849.2	1732.5	1636.1	1560.0	1476.3	1391.3	1306.4
27.5°	2068.6	2009.0	1954.5	1911.3	1812.4	1686.9	1585.4	1499.1	1412.9	1317.8	1231.5
30°	1997.6	1971.0	1927.8	1879.6	1771.8	1646.3	1525.8	1437.0	1341.9	1246.8	1156.7
32.5°	1887.2	1910.1	1882.2	1840.3	1723.6	1590.5	1462.4	1372.3	1268.3	1165.6	1083.1
35°	1752.8	1834.0	1818.8	1789.6	1672.9	1530.9	1402.8	1293.7	1189.7	1085.7	1003.2
37.5°	1605.7	1728.7	1741.4	1723.6	1614.6	1470.0	1329.2	1222.7	1116.1	1010.8	927.1
40°	1404.0	1593.0	1633.6	1641.2	1553.7	1396.4	1249.3	1145.3	1040.0	937.3	835.8
42.5°	1218.8	1457.3	1508.0	1539.7	1476.3	1324.1	1175.7	1060.3	956.3	863.7	762.3
45°	1045.1	1293.7	1376.1	1416.7	1388.8	1241.7	1088.2	980.4	885.3	800.3	702.6
47.5°	866.3	1116.1	1231.5	1296.2	1296.2	1158.0	1004.5	898.0	806.6	734.4	648.1
50°	747.0	955.0	1074.3	1159.2	1182.1	1073.0	928.4	824.4	738.2	659.5	593.6
52.5°	636.7	823.1	922.1	1010.8	1076.8	981.7	843.4	749.6	664.6	591.0	539.0
55°	550.4	690.0	780.0	877.7	951.2	889.1	761.0	669.7	596.1	535.2	490.8
57.5°	468.0	589.8	663.3	749.6	828.2	781.3	678.5	599.9	535.2	482.0	442.6
60°	398.2	497.2	554.3	621.5	719.1	686.2	601.2	528.9	476.9	428.7	395.7
62.5°	338.6	417.3	465.5	513.7	602.4	587.2	521.3	465.5	421.1	380.5	352.6
65°	277.8	342.4	380.5	422.3	493.4	499.7	446.4	407.1	366.5	331.0	305.7
67.5°	224.5	275.2	309.5	345.0	402.1	419.8	383.0	350.1	315.8	286.6	263.8
70°	181.4	216.9	242.2	270.2	317.1	338.6	319.6	296.8	268.9	244.8	224.5
72.5°	143.3	166.1	181.4	202.9	241.0	262.5	261.3	241.0	220.7	204.2	187.7
75°	105.3	123.0	135.7	149.7	180.1	200.4	205.5	196.6	176.3	163.6	150.9
77.5°	79.9	90.1	96.4	106.5	128.1	145.9	153.5	150.9	137.0	126.8	118.0
80°	60.9	63.4	66.0	69.8	87.5	104.0	109.1	107.8	100.2	96.4	86.2
82.5°	43.1	44.4	45.7	46.9	53.3	67.2	72.3	74.8	68.5	64.7	55.8
85°	25.4	26.6	26.6	29.2	30.4	34.2	43.1	43.1	41.9	36.8	35.5
87.5°	12.7	12.7	11.4	11.4	12.7	14.0	16.5	19.0	16.5	15.2	14.0
90°	4.6	4.1	3.8	3.4	2.6	1.9	1.1	0.3	1.1	1.9	2.6
92.5°	6.9	6.7	6.6	6.7	7.0	7.3	7.5	7.8	7.5	7.3	7.0
95°	10.7	10.2	10.0	11.1	13.4	15.7	18.0	20.3	18.0	15.7	13.4
97.5°	12.6	11.5	10.9	13.8	19.5	25.2	30.9	36.6	30.9	25.2	19.5
100°	14.3	13.1	12.5	17.3	26.8	36.3	45.9	55.4	45.9	36.3	26.8
102.5°	56.4	69.1	75.4	75.5	75.6	75.7	75.9	76.0	75.9	75.7	75.6
105°	76.0	95.0	104.5	103.5	101.4	99.3	97.2	95.1	97.2	99.3	101.4
107.5°	90.0	113.4	125.1	124.2	122.5	120.8	119.0	117.3	119.0	120.8	122.5
110°	115.0	135.1	145.1	144.4	142.9	141.5	140.0	138.6	140.0	141.5	142.9

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	162.4	163.6	164.2	163.6	162.3	161.1	159.8	158.6	159.8	161.1	162.3
115°	187.8	186.1	185.2	184.6	183.4	182.2	181.0	179.8	181.0	182.2	183.4
117.5°	206.4	205.2	204.6	203.9	202.5	201.1	199.7	198.3	199.7	201.1	202.5
120°	225.5	224.2	223.6	223.1	222.0	221.0	219.9	218.9	219.9	221.0	222.0
122.5°	243.6	242.2	241.5	240.9	239.8	238.7	237.6	236.5	237.6	238.7	239.8
125°	260.4	259.1	258.4	257.9	257.0	256.1	255.2	254.3	255.2	256.1	257.0
127.5°	276.5	275.4	274.9	274.4	273.5	272.5	271.6	270.6	271.6	272.5	273.5
130°	292.0	291.3	290.9	290.3	289.2	288.1	287.0	285.9	287.0	288.1	289.2
132.5°	306.7	306.0	305.6	305.1	304.2	303.3	302.4	301.5	302.4	303.3	304.2
135°	320.6	320.0	319.7	319.1	318.0	316.9	315.8	314.7	315.8	316.9	318.0
137.5°	333.2	332.5	332.2	331.8	330.9	330.1	329.2	328.4	329.2	330.1	330.9
140°	345.5	344.8	344.4	344.1	343.6	343.0	342.5	341.9	342.5	343.0	343.6
142.5°	356.7	355.8	355.3	355.1	354.6	354.1	353.6	353.1	353.6	354.1	354.6
145°	366.5	365.3	364.7	364.7	364.8	364.9	364.9	365.0	364.9	364.9	364.8
147.5°	376.2	375.0	374.4	374.5	374.7	374.9	375.1	375.3	375.1	374.9	374.7
150°	384.9	383.8	383.2	383.4	383.9	384.4	384.8	385.3	384.8	384.4	383.9
152.5°	392.9	391.8	391.3	391.6	392.1	392.7	393.2	393.8	393.2	392.7	392.1
155°	400.4	399.5	399.1	399.4	400.0	400.7	401.3	401.9	401.3	400.7	400.0
157.5°	406.9	406.3	406.0	406.3	406.8	407.4	407.9	408.5	407.9	407.4	406.8
160°	412.8	412.4	412.2	412.4	412.8	413.3	413.7	414.1	413.7	413.3	412.8
162.5°	417.7	417.4	417.2	417.4	417.8	418.3	418.7	419.1	418.7	418.3	417.8
165°	421.9	421.7	421.6	421.8	422.2	422.7	423.1	423.5	423.1	422.7	422.2
167.5°	425.4	425.2	425.1	425.3	425.7	426.1	426.5	426.9	426.5	426.1	425.7
170°	428.1	428.0	427.9	428.1	428.5	429.0	429.4	429.8	429.4	429.0	428.5
172.5°	430.0	429.9	429.8	430.0	430.4	430.8	431.2	431.6	431.2	430.8	430.4
175°	431.2	431.1	431.0	431.2	431.7	432.2	432.7	433.2	432.7	432.2	431.7
177.5°	431.7	431.6	431.6	431.8	432.3	432.8	433.3	433.8	433.3	432.8	432.3
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1804.8	1806.1	1809.9	1798.5	1780.7	1773.1	1750.3	1746.5	1742.7	1742.7	1746.5
5°	1764.2	1759.1	1760.4	1738.9	1713.5	1698.3	1666.6	1671.6	1655.1	1645.0	1647.5
7.5°	1719.8	1705.9	1704.6	1676.7	1645.0	1617.1	1584.1	1576.5	1561.3	1543.5	1535.9
10°	1664.0	1653.9	1634.9	1603.1	1562.6	1539.7	1495.3	1468.7	1464.9	1438.3	1428.1
12.5°	1607.0	1589.2	1570.2	1525.8	1480.1	1443.3	1410.4	1381.2	1360.9	1338.1	1322.8
15°	1541.0	1519.4	1497.9	1450.9	1397.7	1360.9	1311.4	1268.3	1208.7	1161.8	1135.1
17.5°	1468.7	1444.6	1415.4	1363.4	1311.4	1260.7	1169.4	1118.7	1076.8	1048.9	1032.4
20°	1393.9	1367.2	1338.1	1286.1	1196.0	1107.2	1056.5	1017.2	991.8	963.9	943.6
22.5°	1315.2	1287.3	1255.6	1174.5	1079.3	1017.2	977.9	941.1	904.3	889.1	878.9
25°	1241.7	1216.3	1175.7	1065.4	990.6	933.5	889.1	865.0	846.0	825.7	806.6
27.5°	1165.6	1118.7	1061.6	969.0	922.1	863.7	832.0	814.3	781.3	767.3	758.5
30°	1074.3	1022.3	967.7	901.8	847.2	806.6	777.5	748.3	729.3	715.3	700.1
32.5°	981.7	932.2	898.0	829.5	788.9	747.0	719.1	701.4	673.5	664.6	658.3
35°	901.8	859.9	829.5	773.7	735.6	697.6	677.3	650.6	632.9	616.4	606.3
37.5°	823.1	800.3	768.6	721.7	681.1	650.6	622.7	613.9	589.8	580.9	570.7
40°	768.6	734.4	707.7	667.1	632.9	599.9	582.2	561.9	545.4	531.4	527.6
42.5°	702.6	677.3	662.1	617.7	582.2	563.1	541.6	518.7	506.1	494.6	480.7
45°	653.2	630.4	608.8	573.3	541.6	517.5	498.4	483.2	461.7	456.6	435.0
47.5°	601.2	578.4	561.9	526.3	497.2	474.3	460.4	440.1	422.3	410.9	400.8
50°	549.2	530.2	514.9	484.5	459.1	435.0	416.0	395.7	388.1	369.1	362.7
52.5°	499.7	487.0	470.5	441.4	416.0	395.7	375.4	358.9	347.5	337.4	329.8
55°	457.9	437.6	430.0	398.2	376.7	355.1	337.4	327.2	313.3	306.9	300.6
57.5°	410.9	399.5	386.8	362.7	338.6	318.3	305.7	290.4	282.8	275.2	270.2
60°	370.3	353.9	343.7	323.4	301.9	282.8	271.4	260.0	249.9	243.5	233.4
62.5°	323.4	310.7	304.4	282.8	265.1	247.3	237.2	225.8	218.1	206.7	194.1
65°	282.8	272.7	265.1	247.3	230.8	214.3	204.2	190.2	180.1	173.8	172.5
67.5°	247.3	239.7	228.3	211.8	195.3	182.6	171.2	159.8	158.5	156.0	156.0
70°	208.0	200.4	194.1	176.3	162.3	148.4	145.9	142.1	138.2	137.0	134.4
72.5°	173.8	167.4	159.8	144.6	130.6	126.8	124.3	121.8	118.0	116.7	115.4
75°	140.8	131.9	126.8	112.9	109.1	106.5	104.0	100.2	97.7	96.4	93.9
77.5°	107.8	98.9	98.9	91.3	88.8	85.0	82.4	79.9	78.6	76.1	76.1
80°	76.1	76.1	73.6	69.8	66.0	64.7	60.9	59.6	58.3	59.6	57.1
82.5°	55.8	50.7	50.7	48.2	45.7	44.4	41.9	41.9	40.6	40.6	40.6
85°	31.7	31.7	30.4	27.9	26.6	26.6	25.4	25.4	24.1	24.1	22.8
87.5°	12.7	11.4	12.7	11.4	11.4	10.1	10.1	10.1	8.9	10.1	8.9
90°	3.4	3.8	4.1	4.6	5.2	5.7	6.3	6.6	7.0	7.3	7.6
92.5°	6.7	6.6	6.7	6.9	7.1	7.3	7.5	7.6	7.8	7.9	8.0
95°	11.1	10.0	10.2	10.7	11.2	11.7	12.2	12.6	12.9	13.3	13.6
97.5°	13.8	10.9	11.5	12.6	13.7	14.9	16.0	16.2	16.4	16.6	16.8
100°	17.3	12.5	13.1	14.3	15.4	16.6	17.8	18.4	18.9	19.5	20.0
102.5°	75.5	75.4	69.1	56.4	43.8	31.1	18.5	19.3	20.0	20.8	21.5
105°	103.5	104.5	95.0	76.0	57.1	38.1	19.1	19.9	20.6	21.4	22.1
107.5°	124.2	125.1	113.4	90.0	66.5	43.1	19.7	20.5	21.2	22.0	22.7
110°	144.4	145.1	135.1	115.0	94.9	74.8	54.7	47.8	40.8	33.9	27.0



TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	163.6	164.2	163.6	162.4	161.3	160.1	158.9	128.9	99.0	69.0	39.1
115°	184.6	185.2	186.1	187.8	189.5	191.3	193.0	160.8	128.6	96.5	64.3
117.5°	203.9	204.6	205.2	206.4	207.5	208.7	209.9	199.9	190.0	180.0	170.1
120°	223.1	223.6	224.2	225.5	226.8	228.0	229.3	230.1	230.9	231.8	232.6
122.5°	240.9	241.5	242.2	243.6	244.9	246.3	247.7	248.1	248.5	249.0	249.4
125°	257.9	258.4	259.1	260.4	261.7	263.0	264.3	264.8	265.3	265.8	266.3
127.5°	274.4	274.9	275.4	276.5	277.5	278.6	279.6	280.3	281.0	281.7	282.4
130°	290.3	290.9	291.3	292.0	292.8	293.5	294.3	295.1	295.9	296.6	297.4
132.5°	305.1	305.6	306.0	306.7	307.5	308.2	309.0	309.6	310.2	310.9	311.5
135°	319.1	319.7	320.0	320.6	321.3	321.9	322.5	323.2	323.9	324.6	325.3
137.5°	331.8	332.2	332.5	333.2	333.9	334.6	335.3	336.0	336.7	337.4	338.1
140°	344.1	344.4	344.8	345.5	346.3	347.0	347.8	348.4	349.0	349.7	350.3
142.5°	355.1	355.3	355.8	356.7	357.6	358.5	359.4	360.0	360.5	361.1	361.6
145°	364.7	364.7	365.3	366.5	367.6	368.8	370.0	370.5	371.0	371.5	372.0
147.5°	374.5	374.4	375.0	376.2	377.3	378.5	379.7	380.1	380.4	380.8	381.1
150°	383.4	383.2	383.8	384.9	386.0	387.1	388.2	388.6	389.0	389.4	389.8
152.5°	391.6	391.3	391.8	392.9	393.9	395.0	396.0	396.4	396.8	397.3	397.7
155°	399.4	399.1	399.5	400.4	401.2	402.1	402.9	403.3	403.7	404.1	404.5
157.5°	406.3	406.0	406.3	406.9	407.6	408.2	408.8	409.3	409.8	410.3	410.8
160°	412.4	412.2	412.4	412.8	413.3	413.7	414.1	414.5	414.9	415.4	415.8
162.5°	417.4	417.2	417.4	417.7	418.1	418.4	418.8	419.3	419.8	420.3	420.8
165°	421.8	421.6	421.7	421.9	422.2	422.4	422.6	423.1	423.6	424.1	424.6
167.5°	425.3	425.1	425.2	425.4	425.6	425.8	426.0	426.5	427.0	427.5	428.0
170°	428.1	427.9	428.0	428.1	428.2	428.4	428.5	429.0	429.5	430.0	430.5
172.5°	430.0	429.8	429.9	430.0	430.1	430.3	430.4	430.9	431.4	431.9	432.4
175°	431.2	431.0	431.1	431.2	431.3	431.5	431.6	432.1	432.6	433.1	433.6
177.5°	431.8	431.6	431.6	431.7	431.8	431.8	431.9	432.4	432.9	433.4	433.9
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1746.5	1743.9	1736.3	1738.9	1735.1	1735.1	1732.5	1732.5	1732.5	1738.9	1735.1
5°	1651.3	1642.5	1633.6	1629.8	1626.0	1622.2	1622.2	1620.9	1632.3	1629.8	1639.9
7.5°	1533.4	1530.9	1513.1	1513.1	1506.8	1504.2	1510.6	1511.8	1513.1	1515.6	1522.0
10°	1428.1	1421.8	1396.4	1398.9	1395.1	1390.1	1393.9	1391.3	1400.2	1402.8	1400.2
12.5°	1303.8	1292.4	1264.5	1250.6	1235.3	1223.9	1237.9	1227.7	1263.2	1273.4	1301.3
15°	1138.9	1117.4	1098.4	1098.4	1084.4	1074.3	1080.6	1092.0	1099.6	1111.0	1116.1
17.5°	1028.6	1019.7	1004.5	995.6	991.8	988.0	988.0	993.1	1009.6	1008.3	1018.5
20°	934.7	929.7	922.1	910.6	906.8	904.3	904.3	904.3	915.7	925.9	932.2
22.5°	870.1	866.3	861.2	846.0	838.4	835.8	842.2	846.0	854.8	862.5	868.8
25°	805.4	796.5	787.6	782.5	778.7	778.7	781.3	782.5	786.4	790.2	797.8
27.5°	752.1	745.8	733.1	719.1	719.1	715.3	717.9	720.4	729.3	742.0	748.3
30°	692.5	691.2	686.2	681.1	676.0	673.5	678.5	682.4	683.6	690.0	690.0
32.5°	649.4	640.5	631.6	626.5	624.0	622.7	624.0	629.1	629.1	636.7	645.6
35°	606.3	601.2	592.3	583.4	580.9	574.5	579.6	584.7	593.6	597.4	601.2
37.5°	559.3	553.0	549.2	546.6	541.6	542.8	539.0	546.6	554.3	553.0	555.5
40°	523.8	512.4	501.0	499.7	498.4	497.2	497.2	498.4	503.5	508.6	516.2
42.5°	478.2	474.3	464.2	454.1	451.5	449.0	446.4	451.5	461.7	470.5	474.3
45°	431.2	426.2	423.6	416.0	410.9	409.7	407.1	413.5	422.3	426.2	428.7
47.5°	388.1	386.8	379.2	380.5	376.7	378.0	376.7	380.5	380.5	384.3	386.8
50°	358.9	355.1	351.3	348.8	345.0	345.0	343.7	345.0	350.1	355.1	353.9
52.5°	329.8	323.4	322.2	320.9	318.3	320.9	317.1	318.3	323.4	326.0	324.7
55°	295.5	294.2	291.7	289.2	287.9	286.6	286.6	286.6	291.7	295.5	296.8
57.5°	268.9	262.5	257.5	257.5	252.4	251.1	253.7	254.9	258.7	261.3	263.8
60°	232.1	229.6	222.0	218.1	210.5	209.3	209.3	214.3	220.7	229.6	232.1
62.5°	192.8	189.0	187.7	187.7	187.7	187.7	187.7	187.7	187.7	189.0	189.0
65°	171.2	172.5	171.2	170.0	171.2	171.2	170.0	170.0	170.0	171.2	172.5
67.5°	153.5	152.2	153.5	152.2	150.9	150.9	149.7	150.9	152.2	153.5	153.5
70°	133.2	133.2	131.9	133.2	131.9	130.6	129.4	129.4	131.9	133.2	133.2
72.5°	114.1	114.1	112.9	112.9	110.3	110.3	111.6	110.3	110.3	114.1	114.1
75°	95.1	93.9	92.6	92.6	91.3	91.3	91.3	90.1	92.6	92.6	93.9
77.5°	74.8	74.8	74.8	73.6	73.6	72.3	72.3	73.6	73.6	73.6	74.8
80°	57.1	57.1	57.1	55.8	54.5	54.5	54.5	54.5	54.5	55.8	54.5
82.5°	39.3	39.3	39.3	39.3	39.3	38.0	38.0	38.0	39.3	39.3	38.0
85°	24.1	22.8	24.1	24.1	22.8	24.1	22.8	22.8	21.6	21.6	22.8
87.5°	10.1	8.9	7.6	7.6	8.9	7.6	7.6	7.6	8.9	7.6	7.6
90°	7.8	7.9	8.0	8.1	8.3	8.4	8.3	8.1	8.0	7.9	7.8
92.5°	8.1	8.1	8.2	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.1
95°	13.8	13.8	13.7	13.6	13.5	13.4	13.5	13.6	13.7	13.8	13.8
97.5°	16.9	16.9	17.0	17.1	17.1	17.2	17.1	17.1	17.0	16.9	16.9
100°	20.3	20.4	20.5	20.7	20.8	21.0	20.8	20.7	20.5	20.4	20.3
102.5°	21.9	22.0	22.2	22.4	22.6	22.8	22.6	22.4	22.2	22.0	21.9
105°	22.5	22.6	22.9	23.2	23.5	23.8	23.5	23.2	22.9	22.6	22.5
107.5°	23.1	23.2	23.5	23.8	24.1	24.4	24.1	23.8	23.5	23.2	23.1
110°	23.5	23.6	23.9	24.2	24.4	24.7	24.4	24.2	23.9	23.6	23.5

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	24.1	24.2	24.4	24.6	24.8	25.0	24.8	24.6	24.4	24.2	24.1
115°	48.2	45.7	40.7	35.6	30.6	25.6	30.6	35.6	40.7	45.7	48.2
117.5°	165.1	156.0	137.8	119.6	101.4	83.2	101.4	119.6	137.8	156.0	165.1
120°	233.0	228.3	218.9	209.6	200.2	190.8	200.2	209.6	218.9	228.3	233.0
122.5°	249.6	249.6	249.7	249.8	249.8	249.9	249.8	249.8	249.7	249.6	249.6
125°	266.5	266.6	266.8	267.0	267.2	267.4	267.2	267.0	266.8	266.6	266.5
127.5°	282.8	282.8	282.9	283.0	283.0	283.1	283.0	283.0	282.9	282.8	282.8
130°	297.8	297.8	297.7	297.6	297.6	297.5	297.6	297.6	297.7	297.8	297.8
132.5°	311.8	311.8	311.7	311.6	311.6	311.5	311.6	311.6	311.7	311.8	311.8
135°	325.6	325.5	325.4	325.3	325.1	325.0	325.1	325.3	325.4	325.5	325.6
137.5°	338.4	338.3	338.1	337.9	337.7	337.5	337.7	337.9	338.1	338.3	338.4
140°	350.6	350.4	350.1	349.8	349.4	349.1	349.4	349.8	350.1	350.4	350.6
142.5°	361.9	361.7	361.4	361.0	360.7	360.3	360.7	361.0	361.4	361.7	361.9
145°	372.2	372.0	371.7	371.3	371.0	370.6	371.0	371.3	371.7	372.0	372.2
147.5°	381.3	381.2	380.9	380.6	380.3	380.0	380.3	380.6	380.9	381.2	381.3
150°	390.0	389.8	389.5	389.2	388.8	388.5	388.8	389.2	389.5	389.8	390.0
152.5°	397.9	397.7	397.2	396.7	396.2	395.7	396.2	396.7	397.2	397.7	397.9
155°	404.7	404.4	403.9	403.3	402.8	402.2	402.8	403.3	403.9	404.4	404.7
157.5°	411.0	410.7	410.2	409.6	409.1	408.5	409.1	409.6	410.2	410.7	411.0
160°	416.0	415.8	415.3	414.8	414.3	413.8	414.3	414.8	415.3	415.8	416.0
162.5°	421.0	420.7	420.1	419.4	418.8	418.2	418.8	419.4	420.1	420.7	421.0
165°	424.8	424.6	424.1	423.6	423.1	422.6	423.1	423.6	424.1	424.6	424.8
167.5°	428.2	427.9	427.3	426.6	426.0	425.4	426.0	426.6	427.3	427.9	428.2
170°	430.7	430.4	429.8	429.1	428.5	427.9	428.5	429.1	429.8	430.4	430.7
172.5°	432.6	432.3	431.7	431.0	430.4	429.8	430.4	431.0	431.7	432.3	432.6
175°	433.8	433.5	432.8	432.1	431.4	430.7	431.4	432.1	432.8	433.5	433.8
177.5°	434.1	433.8	433.2	432.5	431.9	431.3	431.9	432.5	433.2	433.8	434.1
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1	1825.1
2.5°	1738.9	1745.2	1742.7	1728.7	1742.7	1746.5	1754.1	1761.7	1766.8	1774.4	1780.7
5°	1629.8	1642.5	1650.1	1642.5	1667.8	1671.6	1689.4	1699.5	1714.8	1727.4	1737.6
7.5°	1527.0	1537.2	1552.4	1555.0	1570.2	1587.9	1613.3	1638.7	1662.8	1675.4	1686.9
10°	1416.7	1434.5	1457.3	1452.2	1475.0	1502.9	1529.6	1570.2	1590.5	1613.3	1633.6
12.5°	1306.4	1317.8	1348.2	1358.4	1391.3	1412.9	1449.7	1475.0	1525.8	1552.4	1570.2
15°	1113.6	1160.5	1198.6	1244.2	1287.3	1327.9	1360.9	1406.6	1450.9	1471.2	1500.4
17.5°	1026.1	1047.6	1070.5	1093.3	1149.1	1221.4	1279.7	1329.2	1367.2	1393.9	1428.1
20°	934.7	956.3	981.7	1003.2	1037.5	1089.5	1161.8	1246.8	1292.4	1320.3	1353.3
22.5°	870.1	890.4	906.8	925.9	952.5	990.6	1045.1	1150.4	1211.2	1245.5	1274.7
25°	800.3	825.7	843.4	857.4	878.9	920.8	965.2	1024.8	1133.9	1160.5	1201.1
27.5°	752.1	759.7	780.0	801.6	823.1	846.0	891.6	942.4	1015.9	1074.3	1123.7
30°	695.0	714.1	733.1	742.0	761.0	794.0	821.9	876.4	933.5	979.1	1038.7
32.5°	651.9	663.3	676.0	697.6	715.3	738.2	766.1	811.7	859.9	889.1	934.7
35°	603.7	611.3	638.0	646.8	664.6	687.4	715.3	750.8	802.8	825.7	858.6
37.5°	558.1	575.8	583.4	603.7	620.2	643.0	663.3	703.9	738.2	764.8	795.2
40°	522.5	530.2	544.1	561.9	575.8	593.6	618.9	648.1	684.9	706.4	733.1
42.5°	479.4	485.8	503.5	513.7	536.5	553.0	568.2	603.7	636.7	653.2	679.8
45°	432.5	447.7	459.1	479.4	492.1	512.4	531.4	556.8	587.2	606.3	621.5
47.5°	391.9	407.1	418.5	437.6	457.9	466.7	487.0	513.7	541.6	556.8	578.4
50°	358.9	364.0	385.6	394.4	416.0	433.8	447.7	470.5	501.0	509.9	527.6
52.5°	327.2	331.0	345.0	356.4	375.4	390.6	408.4	430.0	455.3	469.3	483.2
55°	299.3	301.9	308.2	320.9	333.6	352.6	369.1	389.4	410.9	426.2	438.8
57.5°	267.6	272.7	277.8	285.4	298.1	315.8	333.6	352.6	370.3	380.5	397.0
60°	230.8	238.4	247.3	256.2	265.1	277.8	298.1	315.8	332.3	341.2	353.9
62.5°	191.5	206.7	214.3	224.5	232.1	243.5	258.7	279.0	290.4	301.9	312.0
65°	172.5	173.8	175.0	185.2	199.1	210.5	224.5	239.7	257.5	265.1	272.7
67.5°	153.5	154.7	157.3	158.5	163.6	176.3	191.5	208.0	222.0	227.0	234.6
70°	134.4	134.4	139.5	140.8	142.1	143.3	156.0	172.5	185.2	191.5	200.4
72.5°	114.1	115.4	118.0	119.2	121.8	124.3	128.1	137.0	152.2	158.5	168.7
75°	93.9	95.1	96.4	97.7	101.5	102.7	106.5	111.6	118.0	125.6	131.9
77.5°	74.8	74.8	76.1	78.6	81.2	82.4	86.2	88.8	91.3	95.1	100.2
80°	55.8	57.1	57.1	59.6	59.6	60.9	62.1	66.0	68.5	71.0	73.6
82.5°	38.0	40.6	40.6	40.6	41.9	43.1	44.4	44.4	46.9	48.2	52.0
85°	22.8	24.1	24.1	24.1	22.8	25.4	25.4	26.6	26.6	26.6	27.9
87.5°	8.9	7.6	8.9	8.9	8.9	10.1	8.9	8.9	10.1	11.4	11.4
90°	7.6	7.3	7.0	6.6	6.3	5.7	5.2	4.6	4.1	3.8	3.4
92.5°	8.0	7.9	7.8	7.6	7.5	7.3	7.1	6.9	6.7	6.6	6.7
95°	13.6	13.3	12.9	12.6	12.2	11.7	11.2	10.7	10.2	10.0	11.1
97.5°	16.8	16.6	16.4	16.2	16.0	14.9	13.7	12.6	11.5	10.9	13.8
100°	20.0	19.5	18.9	18.4	17.8	16.6	15.4	14.3	13.1	12.5	17.3
102.5°	21.5	20.8	20.0	19.3	18.5	31.1	43.8	56.4	69.1	75.4	75.5
105°	22.1	21.4	20.6	19.9	19.1	38.1	57.1	76.0	95.0	104.5	103.5
107.5°	22.7	22.0	21.2	20.5	19.7	43.1	66.5	90.0	113.4	125.1	124.2
110°	27.0	33.9	40.8	47.8	54.7	74.8	94.9	115.0	135.1	145.1	144.4

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	39.1	69.0	99.0	128.9	158.9	160.1	161.3	162.4	163.6	164.2	163.6
115°	64.3	96.5	128.6	160.8	193.0	191.3	189.5	187.8	186.1	185.2	184.6
117.5°	170.1	180.0	190.0	199.9	209.9	208.7	207.5	206.4	205.2	204.6	203.9
120°	232.6	231.8	230.9	230.1	229.3	228.0	226.8	225.5	224.2	223.6	223.1
122.5°	249.4	249.0	248.5	248.1	247.7	246.3	244.9	243.6	242.2	241.5	240.9
125°	266.3	265.8	265.3	264.8	264.3	263.0	261.7	260.4	259.1	258.4	257.9
127.5°	282.4	281.7	281.0	280.3	279.6	278.6	277.5	276.5	275.4	274.9	274.4
130°	297.4	296.6	295.9	295.1	294.3	293.5	292.8	292.0	291.3	290.9	290.3
132.5°	311.5	310.9	310.2	309.6	309.0	308.2	307.5	306.7	306.0	305.6	305.1
135°	325.3	324.6	323.9	323.2	322.5	321.9	321.3	320.6	320.0	319.7	319.1
137.5°	338.1	337.4	336.7	336.0	335.3	334.6	333.9	333.2	332.5	332.2	331.8
140°	350.3	349.7	349.0	348.4	347.8	347.0	346.3	345.5	344.8	344.4	344.1
142.5°	361.6	361.1	360.5	360.0	359.4	358.5	357.6	356.7	355.8	355.3	355.1
145°	372.0	371.5	371.0	370.5	370.0	368.8	367.6	366.5	365.3	364.7	364.7
147.5°	381.1	380.8	380.4	380.1	379.7	378.5	377.3	376.2	375.0	374.4	374.5
150°	389.8	389.4	389.0	388.6	388.2	387.1	386.0	384.9	383.8	383.2	383.4
152.5°	397.7	397.3	396.8	396.4	396.0	395.0	393.9	392.9	391.8	391.3	391.6
155°	404.5	404.1	403.7	403.3	402.9	402.1	401.2	400.4	399.5	399.1	399.4
157.5°	410.8	410.3	409.8	409.3	408.8	408.2	407.6	406.9	406.3	406.0	406.3
160°	415.8	415.4	414.9	414.5	414.1	413.7	413.3	412.8	412.4	412.2	412.4
162.5°	420.8	420.3	419.8	419.3	418.8	418.4	418.1	417.7	417.4	417.2	417.4
165°	424.6	424.1	423.6	423.1	422.6	422.4	422.2	421.9	421.7	421.6	421.8
167.5°	428.0	427.5	427.0	426.5	426.0	425.8	425.6	425.4	425.2	425.1	425.3
170°	430.5	430.0	429.5	429.0	428.5	428.4	428.2	428.1	428.0	427.9	428.1
172.5°	432.4	431.9	431.4	430.9	430.4	430.3	430.1	430.0	429.9	429.8	430.0
175°	433.6	433.1	432.6	432.1	431.6	431.5	431.3	431.2	431.1	431.0	431.2
177.5°	433.9	433.4	432.9	432.4	431.9	431.8	431.8	431.7	431.6	431.6	431.8
180°	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3	432.3

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1825.1	1825.1	1825.1	1825.1
2.5°	1792.1	1788.3	1811.1	1836.5
5°	1755.3	1761.7	1790.9	1826.4
7.5°	1717.3	1731.2	1765.5	1812.4
10°	1664.0	1689.4	1741.4	1789.6
12.5°	1612.0	1646.3	1695.7	1752.8
15°	1553.7	1591.7	1652.6	1721.1
17.5°	1489.0	1532.1	1603.1	1678.0
20°	1420.5	1477.6	1552.4	1633.6
22.5°	1344.4	1412.9	1490.3	1580.3
25°	1270.8	1345.7	1423.0	1527.0
27.5°	1198.6	1272.1	1358.4	1463.6
30°	1126.3	1193.5	1286.1	1398.9
32.5°	1048.9	1118.7	1216.3	1331.7
35°	977.9	1047.6	1138.9	1253.1
37.5°	901.8	976.6	1064.1	1182.1
40°	813.0	900.5	985.5	1098.4
42.5°	739.4	832.0	914.5	1021.0
45°	681.1	768.6	837.1	941.1
47.5°	626.5	697.6	767.3	863.7
50°	574.5	629.1	701.4	787.6
52.5°	521.3	568.2	630.4	711.5
55°	473.1	517.5	573.3	635.4
57.5°	428.7	460.4	516.2	572.0
60°	379.2	412.2	455.3	502.3
62.5°	337.4	362.7	403.3	442.6
65°	293.0	317.1	347.5	384.3
67.5°	252.4	274.0	298.1	327.2
70°	215.6	232.1	249.9	275.2
72.5°	176.3	194.1	210.5	230.8
75°	144.6	152.2	166.1	180.1
77.5°	111.6	121.8	129.4	140.8
80°	79.9	88.8	91.3	100.2
82.5°	53.3	58.3	63.4	66.0
85°	30.4	33.0	38.0	39.3
87.5°	11.4	12.7	15.2	17.8
90°	2.6	1.9	1.1	0.3
92.5°	7.0	7.3	7.5	7.8
95°	13.4	15.7	18.0	20.3
97.5°	19.5	25.2	30.9	36.6
100°	26.8	36.3	45.9	55.4
102.5°	75.6	75.7	75.9	76.0
105°	101.4	99.3	97.2	95.1
107.5°	122.5	120.8	119.0	117.3
110°	142.9	141.5	140.0	138.6

TEST NUMBER: P1000109

CATALOG NUMBER: SA2XXRDIP-B865D330UB2750-4F0-XX-W2A-A_5000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	162.3	161.1	159.8	158.6
115°	183.4	182.2	181.0	179.8
117.5°	202.5	201.1	199.7	198.3
120°	222.0	221.0	219.9	218.9
122.5°	239.8	238.7	237.6	236.5
125°	257.0	256.1	255.2	254.3
127.5°	273.5	272.5	271.6	270.6
130°	289.2	288.1	287.0	285.9
132.5°	304.2	303.3	302.4	301.5
135°	318.0	316.9	315.8	314.7
137.5°	330.9	330.1	329.2	328.4
140°	343.6	343.0	342.5	341.9
142.5°	354.6	354.1	353.6	353.1
145°	364.8	364.9	364.9	365.0
147.5°	374.7	374.9	375.1	375.3
150°	383.9	384.4	384.8	385.3
152.5°	392.1	392.7	393.2	393.8
155°	400.0	400.7	401.3	401.9
157.5°	406.8	407.4	407.9	408.5
160°	412.8	413.3	413.7	414.1
162.5°	417.8	418.3	418.7	419.1
165°	422.2	422.7	423.1	423.5
167.5°	425.7	426.1	426.5	426.9
170°	428.5	429.0	429.4	429.8
172.5°	430.4	430.8	431.2	431.6
175°	431.7	432.2	432.7	433.2
177.5°	432.3	432.8	433.3	433.8
180°	432.3	432.3	432.3	432.3

(END OF REPORT)