

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: P1000148

Luminaire Tested: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000148
REPORT IS A COMBINATION OF REPORTS P988708 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

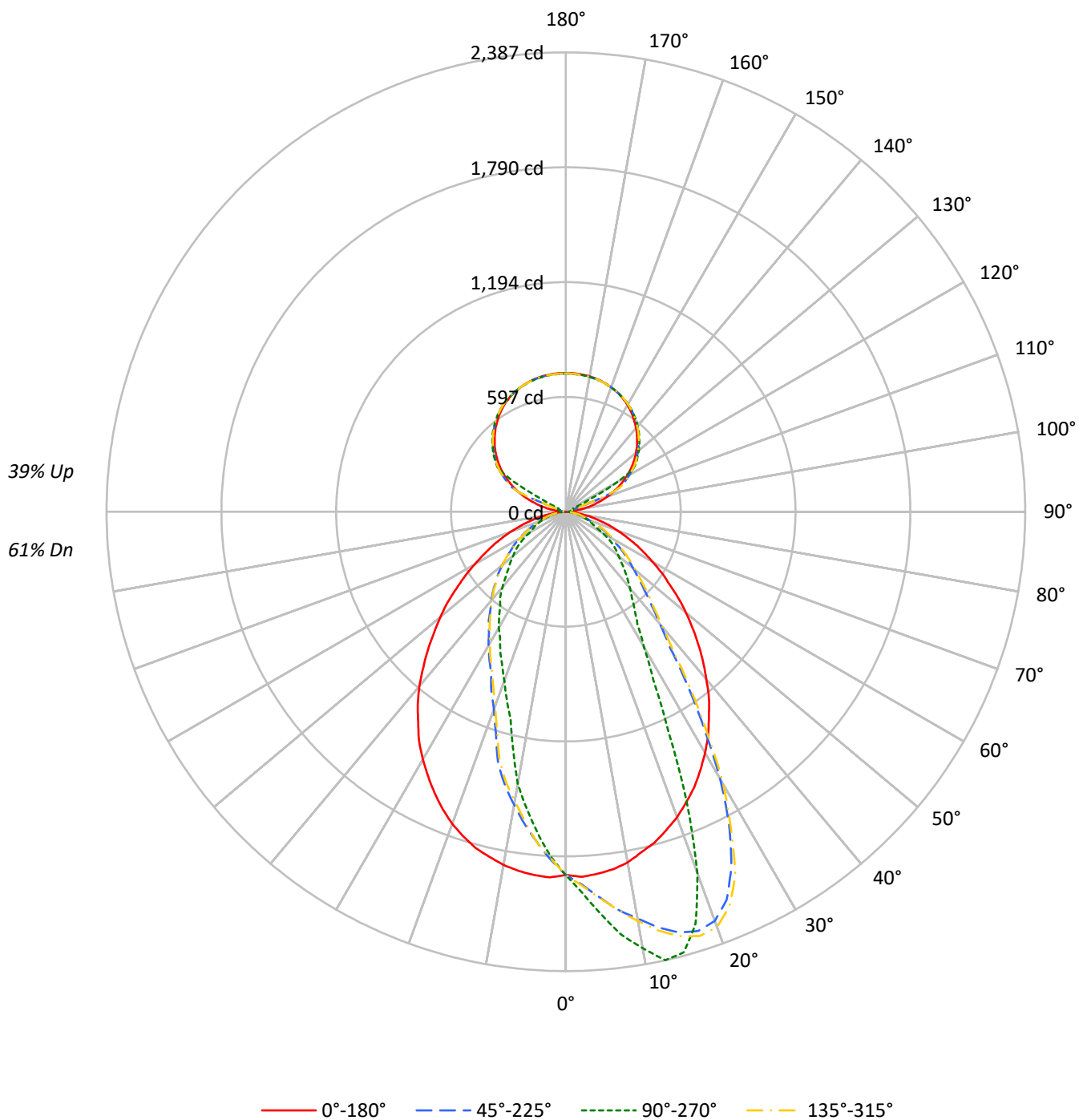
Lumens per Lamp: N/A
Luminaire Lumens: 5369.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1000148

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	29870	29870	29870	29870
5°	29939	31728	30044	25346
10°	29610	33534	29820	20930
15°	28968	33545	29458	15724
20°	28195	27728	28808	12973
25°	27259	17326	27846	11036
30°	26061	11093	26769	9500
35°	24605	8525	25403	8130
40°	22984	7166	23965	7111
45°	21250	6099	22139	5971
50°	19473	5183	20384	5164
55°	17507	4504	18450	4445
60°	15758	3434	16592	3393
65°	14124	2584	14963	2932
70°	12325	2065	13291	2390
75°	10416	1581	11373	1807
80°	8271	1074	8902	1186
85°	5749	555	6300	586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 165°

Vertical Angle: 45°

Luminance: 27324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.0	3.3
10°-20°	499.6	9.3
20°-30°	643.0	12.0
30°-40°	610.0	11.4
40°-50°	522.8	9.7
50°-60°	398.1	7.4
60°-70°	251.1	4.7
70°-80°	125.3	2.3
80°-90°	33.5	0.6
90°-100°	23.7	0.4
100°-110°	88.3	1.6
110°-120°	234.3	4.4
120°-130°	388.6	7.2
130°-140°	412.7	7.7
140°-150°	383.6	7.1
150°-160°	308.4	5.7
160°-170°	198.7	3.7
170°-180°	68.4	1.3
0°-30°	1321.6	24.6
0°-40°	1931.6	36.0
0°-60°	2852.5	53.1
0°-90°	3262.3	60.8
90°-120°	346.3	6.5
90°-150°	1531.2	28.5
90°-180°	2107.0	39.2
0°-180°	5369.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1887	1887	1887	1887	1887	
5°	1888	2100	1895	1677	1888	179
15°	1780	2370	1810	1111	1780	501
25°	1579	1264	1613	805	1579	725
35°	1296	623	1338	594	1296	811
45°	973	433	1014	424	973	751
55°	657	300	692	296	657	592
65°	397	156	421	177	397	394
75°	186	83	203	94	186	202
85°	41	24	45	25	41	46
90°	0	14	0	14	0	4
95°	34	22	34	22	34	40
105°	158	40	158	40	158	169
115°	299	43	299	43	299	294
125°	423	445	423	445	423	377
135°	523	540	523	540	523	404
145°	607	616	607	616	607	380
155°	668	669	668	669	668	308
165°	704	702	704	702	704	199
175°	720	716	720	716	720	69
180°	719	719	719	719	719	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1898.8	1906.7	1910.6	1915.9	1927.7	1935.5	1947.3	1950.0	1948.7	1953.9	1939.5
5°	1888.3	1905.4	1921.1	1934.2	1955.2	1968.3	1982.7	1999.8	2003.7	2023.4	2011.6
7.5°	1873.9	1898.8	1921.1	1947.3	1978.8	1995.9	2018.2	2044.4	2056.2	2079.8	2086.3
10°	1850.3	1885.7	1923.7	1951.3	1994.5	2024.7	2045.7	2087.7	2115.2	2150.6	2145.4
12.5°	1812.3	1858.2	1909.3	1955.2	2011.6	2031.3	2070.6	2113.9	2149.3	2182.1	2210.9
15°	1779.5	1831.9	1888.3	1944.7	2009.0	2045.7	2085.0	2141.4	2179.4	2237.1	2262.1
17.5°	1734.9	1801.8	1868.7	1931.6	2007.7	2049.6	2098.1	2153.2	2209.6	2264.7	2284.4
20°	1689.0	1761.1	1833.3	1918.5	2005.0	2045.7	2095.5	2163.7	2218.8	2262.1	2262.1
22.5°	1633.9	1721.8	1804.4	1885.7	1980.1	2039.1	2090.3	2170.3	2209.6	2218.8	2183.4
25°	1578.9	1666.7	1757.2	1858.2	1965.7	2018.2	2075.9	2150.6	2163.7	2127.0	2035.2
27.5°	1513.3	1611.6	1713.9	1822.8	1935.5	2001.1	2053.6	2103.4	2078.5	1980.1	1837.2
30°	1446.4	1552.6	1668.0	1771.6	1908.0	1968.3	2012.9	2027.3	1948.7	1788.7	1603.8
32.5°	1376.9	1480.5	1602.5	1727.0	1864.7	1922.4	1951.3	1913.2	1769.0	1567.1	1341.5
35°	1295.6	1412.3	1539.5	1669.3	1805.7	1849.0	1866.0	1772.9	1588.0	1327.1	1102.8
37.5°	1222.2	1338.9	1475.3	1607.7	1740.1	1763.8	1746.7	1601.1	1366.4	1108.1	889.1
40°	1135.6	1260.2	1394.0	1542.1	1651.0	1657.5	1615.6	1426.7	1135.6	893.0	758.0
42.5°	1055.6	1181.5	1315.3	1466.1	1548.7	1526.4	1470.0	1222.2	948.1	769.8	660.9
45°	973.0	1092.3	1236.6	1370.3	1429.4	1376.9	1291.7	1028.1	796.0	662.2	578.3
47.5°	893.0	1004.5	1147.4	1275.9	1286.4	1227.4	1126.4	861.5	689.8	582.2	514.0
50°	814.3	925.8	1059.6	1165.8	1155.3	1074.0	959.9	748.8	599.3	514.0	457.7
52.5°	735.7	836.6	966.5	1050.4	1005.8	927.1	814.3	634.7	523.2	448.5	405.2
55°	657.0	751.4	862.9	932.4	861.5	771.1	691.1	544.2	453.7	393.4	360.6
57.5°	591.4	666.2	768.4	810.4	725.2	654.4	584.9	468.1	393.4	350.1	312.1
60°	519.3	587.5	671.4	696.3	608.5	550.8	491.8	396.0	337.0	299.0	274.1
62.5°	457.7	514.0	578.3	578.3	500.9	457.7	413.1	331.8	283.2	253.1	241.3
65°	397.3	438.0	483.9	478.6	413.1	375.0	339.6	274.1	237.4	216.4	204.6
67.5°	338.3	369.8	400.0	381.6	334.4	301.6	268.8	221.6	196.7	182.3	166.5
70°	284.6	309.5	325.2	308.2	261.0	233.4	209.8	178.3	158.7	140.3	131.1
72.5°	238.7	249.2	254.4	233.4	194.1	178.3	161.3	139.0	122.0	112.8	110.2
75°	186.2	195.4	191.5	175.7	142.9	131.1	118.0	102.3	98.4	93.1	90.5
77.5°	145.6	145.6	139.0	124.6	102.3	93.1	87.9	80.0	76.1	74.7	72.1
80°	103.6	102.3	98.4	82.6	69.5	64.3	64.3	59.0	57.7	55.1	55.1
82.5°	68.2	68.2	62.9	49.8	45.9	44.6	43.3	40.7	40.7	39.3	39.3
85°	40.7	38.0	31.5	27.5	26.2	26.2	24.9	23.6	24.9	23.6	23.6
87.5°	18.4	14.4	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
90°	0.5	1.8	3.0	4.3	5.6	6.2	6.7	7.6	8.5	9.5	10.4
92.5°	13.0	12.5	12.1	11.6	11.1	10.9	11.1	11.4	11.8	12.1	12.5
95°	33.8	30.0	26.2	22.3	18.5	16.6	17.0	17.8	18.7	19.5	20.3
97.5°	60.8	51.3	41.9	32.4	22.9	18.2	19.1	21.0	22.8	24.7	26.5
100°	92.0	76.2	60.4	44.5	28.7	20.8	21.8	23.7	25.7	27.6	29.6
102.5°	126.4	126.2	125.9	125.7	125.4	125.3	114.8	93.8	72.7	51.7	30.7
105°	158.1	161.6	165.0	168.5	172.0	173.7	157.9	126.4	94.8	63.3	31.7
107.5°	195.0	197.9	200.8	203.7	206.6	208.0	188.5	149.6	110.7	71.7	32.8
110°	230.4	232.8	235.2	237.7	240.1	241.3	224.6	191.2	157.8	124.4	91.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	263.6	265.7	267.8	269.9	272.0	273.0	272.0	270.1	268.1	266.2	264.2
115°	299.0	301.0	302.9	304.9	306.8	307.8	309.2	312.1	315.0	317.9	320.8
117.5°	329.7	332.0	334.3	336.6	338.9	340.1	341.1	343.0	345.0	346.9	348.9
120°	364.0	365.7	367.5	369.2	370.9	371.8	372.8	374.9	377.0	379.0	381.1
122.5°	393.1	394.9	396.8	398.6	400.5	401.4	402.6	404.9	407.2	409.5	411.8
125°	422.7	424.2	425.7	427.2	428.7	429.5	430.6	432.8	435.0	437.2	439.4
127.5°	449.8	451.4	453.0	454.7	456.3	457.1	458.0	459.7	461.4	463.2	464.9
130°	475.3	477.1	479.0	480.8	482.7	483.6	484.2	485.5	486.8	488.0	489.3
132.5°	501.3	502.8	504.3	505.8	507.3	508.0	508.6	509.9	511.2	512.4	513.7
135°	523.1	524.9	526.8	528.6	530.5	531.4	531.9	533.0	534.0	535.1	536.1
137.5°	546.0	547.4	548.8	550.1	551.5	552.2	552.8	553.9	555.1	556.2	557.4
140°	568.3	569.2	570.2	571.1	572.0	572.5	573.1	574.4	575.7	576.9	578.2
142.5°	587.1	587.9	588.7	589.5	590.3	590.7	591.5	593.0	594.5	596.0	597.5
145°	606.8	606.7	606.6	606.5	606.4	606.3	607.3	609.2	611.2	613.1	615.1
147.5°	624.0	623.6	623.3	622.9	622.6	622.4	623.4	625.4	627.3	629.3	631.3
150°	640.6	639.8	639.0	638.2	637.4	637.0	637.9	639.8	641.6	643.5	645.3
152.5°	654.7	653.8	652.8	651.9	651.0	650.5	651.4	653.1	654.8	656.6	658.3
155°	668.2	667.2	666.1	665.1	664.0	663.5	664.2	665.6	666.9	668.3	669.7
157.5°	679.1	678.2	677.2	676.3	675.4	674.9	675.4	676.5	677.5	678.6	679.6
160°	688.5	687.8	687.1	686.4	685.7	685.3	685.7	686.4	687.1	687.8	688.5
162.5°	696.8	696.1	695.4	694.7	694.0	693.7	694.0	694.6	695.1	695.7	696.3
165°	704.1	703.4	702.7	702.0	701.3	700.9	701.1	701.4	701.8	702.1	702.5
167.5°	709.8	709.1	708.4	707.7	707.0	706.7	706.9	707.2	707.5	707.9	708.2
170°	714.5	713.8	713.1	712.4	711.7	711.3	711.4	711.7	711.9	712.2	712.4
172.5°	717.6	716.9	716.2	715.5	714.8	714.5	714.6	714.8	715.1	715.3	715.5
175°	720.2	719.4	718.6	717.7	716.9	716.5	716.6	716.9	717.1	717.4	717.6
177.5°	721.2	720.4	719.6	718.8	718.0	717.6	717.7	717.8	717.9	718.0	718.1
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1953.9	1956.5	1960.5	1978.8	1981.4	1986.7	1984.1	1984.1	1985.4	1982.7	1984.1
5°	2037.8	2041.8	2061.4	2083.7	2089.0	2083.7	2090.3	2099.5	2099.5	2099.5	2096.8
7.5°	2116.5	2130.9	2153.2	2186.0	2192.6	2199.1	2210.9	2203.1	2205.7	2217.5	2213.5
10°	2192.6	2213.5	2238.5	2266.0	2280.4	2289.6	2294.8	2306.6	2334.2	2302.7	2314.5
12.5°	2264.7	2294.8	2321.1	2351.2	2361.7	2373.5	2377.5	2387.9	2387.9	2386.6	2395.8
15°	2311.9	2339.4	2363.0	2382.7	2385.3	2382.7	2380.1	2381.4	2385.3	2369.6	2378.8
17.5°	2322.4	2325.0	2332.9	2325.0	2326.3	2298.8	2283.0	2279.1	2242.4	2243.7	2273.9
20°	2271.2	2226.7	2214.9	2171.6	2145.4	2074.5	2071.9	2052.2	1974.9	1998.5	1993.2
22.5°	2130.9	2054.9	1953.9	1904.1	1879.1	1804.4	1746.7	1706.1	1678.5	1651.0	1639.2
25°	1946.0	1822.8	1679.8	1581.5	1567.1	1497.5	1391.3	1341.5	1282.5	1264.1	1295.6
27.5°	1707.4	1547.4	1386.1	1235.3	1207.7	1144.8	1091.0	1055.6	987.4	983.5	986.1
30°	1383.5	1222.2	1087.1	988.7	920.6	891.7	856.3	830.1	802.5	813.0	815.7
32.5°	1136.9	983.5	857.6	805.2	773.7	755.3	725.2	708.1	696.3	692.4	691.1
35°	903.5	801.2	744.8	693.7	675.3	662.2	639.9	632.1	621.6	622.9	622.9
37.5°	773.7	688.5	646.5	620.3	603.2	596.7	582.2	574.4	567.8	565.2	569.1
40°	667.5	608.5	582.2	558.6	544.2	541.6	533.7	524.5	516.7	518.0	521.9
42.5°	590.1	556.0	524.5	506.2	495.7	491.8	485.2	478.6	478.6	474.7	473.4
45°	528.5	500.9	474.7	457.7	451.1	445.9	438.0	436.7	431.4	432.7	434.1
47.5°	473.4	451.1	431.4	414.4	407.8	406.5	398.6	393.4	393.4	392.1	390.8
50°	423.6	401.3	384.2	375.0	365.9	363.2	361.9	360.6	358.0	358.0	359.3
52.5°	382.9	360.6	347.5	339.6	334.4	331.8	331.8	330.5	330.5	330.5	329.1
55°	338.3	320.0	309.5	306.9	304.2	302.9	301.6	299.0	297.7	300.3	297.7
57.5°	296.4	289.8	280.6	278.0	271.4	271.4	267.5	264.9	262.3	264.9	264.9
60°	263.6	254.4	249.2	241.3	236.0	230.8	224.2	222.9	220.3	219.0	217.7
62.5°	229.5	221.6	208.5	196.7	188.8	183.6	181.0	179.7	179.7	178.3	178.3
65°	191.5	173.1	166.5	162.6	161.3	160.0	157.4	156.0	157.4	156.0	157.4
67.5°	149.5	146.9	142.9	140.3	139.0	137.7	137.7	136.4	136.4	136.4	136.4
70°	129.8	123.3	122.0	119.3	119.3	118.0	118.0	118.0	118.0	116.7	119.3
72.5°	107.5	103.6	102.3	101.0	101.0	101.0	99.7	99.7	99.7	98.4	99.7
75°	87.9	86.5	83.9	83.9	82.6	83.9	82.6	82.6	81.3	82.6	82.6
77.5°	70.8	69.5	68.2	68.2	66.9	66.9	66.9	66.9	66.9	66.9	68.2
80°	53.8	52.5	51.1	52.5	51.1	52.5	51.1	51.1	52.5	51.1	51.1
82.5°	39.3	38.0	38.0	36.7	36.7	36.7	36.7	36.7	36.7	36.7	36.7
85°	23.6	22.3	22.3	23.6	22.3	23.6	22.3	22.3	22.3	23.6	23.6
87.5°	10.5	11.8	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11.8
90°	11.0	11.6	12.1	12.7	13.0	13.1	13.3	13.6	13.8	14.0	13.8
92.5°	12.7	12.9	13.2	13.4	13.5	13.6	13.7	13.8	13.9	14.0	13.9
95°	20.9	21.5	22.0	22.6	22.9	22.8	22.7	22.6	22.5	22.4	22.5
97.5°	26.9	27.2	27.6	27.9	28.1	28.2	28.3	28.4	28.5	28.6	28.5
100°	30.5	31.5	32.4	33.3	33.8	33.9	34.1	34.4	34.6	34.8	34.6
102.5°	32.0	33.2	34.5	35.8	36.4	36.6	36.9	37.3	37.6	38.0	37.6
105°	33.0	34.2	35.5	36.8	37.4	37.6	38.1	38.6	39.0	39.5	39.0
107.5°	34.1	35.3	36.6	37.9	38.5	38.7	39.2	39.7	40.1	40.6	40.1
110°	79.4	67.9	56.3	44.8	39.0	39.2	39.7	40.2	40.6	41.1	40.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	214.4	164.6	114.7	64.9	40.0	40.2	40.5	40.9	41.2	41.6	41.2
115°	267.3	213.8	160.3	106.8	80.1	75.9	67.6	59.3	50.9	42.6	50.9
117.5°	332.4	315.9	299.4	282.9	274.6	259.5	229.2	198.9	168.6	138.3	168.6
120°	382.5	383.9	385.3	386.7	387.4	379.6	364.0	348.4	332.8	317.2	332.8
122.5°	412.5	413.2	413.9	414.6	414.9	415.0	415.1	415.2	415.4	415.5	415.4
125°	440.2	441.0	441.8	442.6	443.0	443.2	443.5	443.9	444.2	444.6	444.2
127.5°	466.1	467.2	468.4	469.5	470.1	470.2	470.3	470.4	470.5	470.6	470.5
130°	490.6	491.8	493.1	494.4	495.0	494.9	494.8	494.7	494.6	494.5	494.6
132.5°	514.7	515.8	516.8	517.9	518.4	518.3	518.2	518.1	518.0	517.9	518.0
135°	537.3	538.4	539.6	540.7	541.3	541.2	541.0	540.7	540.5	540.3	540.5
137.5°	558.6	559.7	560.9	562.0	562.6	562.4	562.1	561.8	561.4	561.1	561.4
140°	579.2	580.3	581.3	582.4	582.9	582.6	582.0	581.5	580.9	580.3	580.9
142.5°	598.4	599.3	600.2	601.1	601.6	601.3	600.7	600.2	599.6	599.0	599.6
145°	615.9	616.7	617.6	618.4	618.8	618.5	617.9	617.4	616.8	616.2	616.8
147.5°	631.9	632.5	633.0	633.6	633.9	633.7	633.2	632.7	632.3	631.8	632.3
150°	646.0	646.7	647.4	648.1	648.4	648.1	647.5	647.0	646.4	645.8	646.4
152.5°	659.0	659.7	660.4	661.1	661.4	661.0	660.2	659.4	658.6	657.8	658.6
155°	670.4	671.1	671.8	672.5	672.9	672.4	671.5	670.6	669.6	668.7	669.6
157.5°	680.4	681.2	682.1	682.9	683.3	682.8	681.9	681.0	680.0	679.1	680.0
160°	689.2	689.9	690.6	691.3	691.6	691.2	690.4	689.5	688.7	687.9	688.7
162.5°	697.1	697.9	698.7	699.5	699.9	699.4	698.3	697.3	696.2	695.2	696.2
165°	703.3	704.1	704.9	705.7	706.1	705.7	704.9	704.1	703.3	702.5	703.3
167.5°	709.0	709.8	710.7	711.5	711.9	711.4	710.3	709.3	708.2	707.2	708.2
170°	713.2	714.0	714.8	715.6	716.0	715.5	714.4	713.4	712.3	711.3	712.3
172.5°	716.3	717.1	717.9	718.7	719.1	718.6	717.6	716.5	715.5	714.5	715.5
175°	718.4	719.2	720.0	720.8	721.2	720.6	719.5	718.3	717.2	716.0	717.2
177.5°	718.9	719.7	720.5	721.3	721.7	721.2	720.2	719.1	718.1	717.1	718.1
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1989.3	1980.1	1977.5	1980.1	1977.5	1978.8	1969.6	1935.5	1944.7	1930.3	1938.2
5°	2102.1	2094.2	2077.2	2074.5	2071.9	2069.3	2056.2	2026.0	2014.2	1994.5	1993.2
7.5°	2209.6	2209.6	2196.5	2187.3	2175.5	2166.3	2149.3	2104.7	2086.3	2062.7	2049.6
10°	2315.8	2281.7	2296.2	2287.0	2258.1	2252.9	2221.4	2195.2	2159.8	2136.2	2115.2
12.5°	2391.9	2381.4	2368.3	2360.4	2352.5	2335.5	2314.5	2247.6	2229.3	2182.1	2158.5
15°	2389.3	2382.7	2386.6	2386.6	2384.0	2380.1	2363.0	2314.5	2283.0	2237.1	2196.5
17.5°	2260.7	2277.8	2294.8	2306.6	2332.9	2344.7	2360.4	2331.6	2311.9	2272.6	2229.3
20°	2036.5	2078.5	2128.3	2138.8	2162.4	2231.9	2263.4	2288.3	2296.2	2283.0	2247.6
22.5°	1724.4	1759.8	1880.5	1877.8	1911.9	1994.5	2086.3	2161.1	2220.1	2252.9	2239.8
25°	1350.7	1400.5	1464.8	1513.3	1624.7	1748.0	1862.1	1981.4	2083.7	2174.2	2196.5
27.5°	1021.5	1087.1	1138.2	1202.5	1258.9	1404.4	1551.3	1737.5	1856.9	2028.6	2117.8
30°	826.1	856.3	907.4	937.6	965.1	1076.6	1243.1	1426.7	1636.6	1834.6	1988.0
32.5°	705.5	726.5	764.5	777.6	806.5	881.2	986.1	1154.0	1370.3	1610.3	1812.3
35°	633.4	655.7	663.5	675.3	698.9	746.2	818.3	940.2	1135.6	1370.3	1611.6
37.5°	571.7	583.5	605.8	613.7	621.6	657.0	705.5	790.7	920.6	1113.3	1380.8
40°	528.5	535.0	546.8	553.4	558.6	583.5	626.8	684.5	780.2	927.1	1173.6
42.5°	482.6	490.4	498.3	506.2	512.7	532.4	558.6	613.7	678.0	789.4	967.8
45°	438.0	443.2	452.4	457.7	466.8	482.6	506.2	544.2	601.9	672.7	817.0
47.5°	397.3	403.9	407.8	414.4	420.9	438.0	460.3	485.2	532.4	601.9	706.8
50°	360.6	368.5	373.7	375.0	380.3	396.0	414.4	441.9	472.1	525.8	617.6
52.5°	334.4	335.7	339.6	344.9	343.6	352.8	369.8	390.8	422.3	465.5	532.4
55°	304.2	308.2	310.8	312.1	312.1	320.0	329.1	348.8	373.7	409.1	465.5
57.5°	266.2	270.1	278.0	280.6	284.6	288.5	292.4	305.5	326.5	360.6	406.5
60°	226.9	229.5	237.4	242.6	245.2	255.7	261.0	271.4	283.2	308.2	351.4
62.5°	182.3	184.9	188.8	194.1	199.3	215.1	228.2	238.7	247.8	264.9	300.3
65°	158.7	160.0	162.6	163.9	165.2	171.8	183.6	198.0	215.1	228.2	249.2
67.5°	137.7	139.0	140.3	142.9	144.2	145.6	150.8	154.7	171.8	190.1	205.9
70°	118.0	120.6	122.0	122.0	123.3	125.9	128.5	133.8	139.0	148.2	167.9
72.5°	99.7	101.0	103.6	103.6	103.6	106.2	108.8	111.5	114.1	119.3	127.2
75°	82.6	85.2	85.2	85.2	86.5	86.5	89.2	91.8	94.4	98.4	101.0
77.5°	68.2	68.2	68.2	68.2	69.5	69.5	70.8	73.4	74.7	76.1	78.7
80°	51.1	52.5	52.5	52.5	53.8	53.8	53.8	56.4	57.7	57.7	60.3
82.5°	38.0	38.0	38.0	39.3	38.0	39.3	39.3	40.7	39.3	40.7	42.0
85°	23.6	23.6	23.6	24.9	24.9	24.9	24.9	24.9	24.9	24.9	26.2
87.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	13.1	11.8	11.8
90°	13.6	13.3	13.1	13.0	12.7	12.1	11.6	11.0	10.4	9.5	8.5
92.5°	13.8	13.7	13.6	13.5	13.4	13.2	12.9	12.7	12.5	12.1	11.8
95°	22.6	22.7	22.8	22.9	22.6	22.0	21.5	20.9	20.3	19.5	18.7
97.5°	28.4	28.3	28.2	28.1	27.9	27.6	27.2	26.9	26.5	24.7	22.8
100°	34.4	34.1	33.9	33.8	33.3	32.4	31.5	30.5	29.6	27.6	25.7
102.5°	37.3	36.9	36.6	36.4	35.8	34.5	33.2	32.0	30.7	51.7	72.7
105°	38.6	38.1	37.6	37.4	36.8	35.5	34.2	33.0	31.7	63.3	94.8
107.5°	39.7	39.2	38.7	38.5	37.9	36.6	35.3	34.1	32.8	71.7	110.7
110°	40.2	39.7	39.2	39.0	44.8	56.3	67.9	79.4	91.0	124.4	157.8



TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	40.9	40.5	40.2	40.0	64.9	114.7	164.6	214.4	264.2	266.2	268.1
115°	59.3	67.6	75.9	80.1	106.8	160.3	213.8	267.3	320.8	317.9	315.0
117.5°	198.9	229.2	259.5	274.6	282.9	299.4	315.9	332.4	348.9	346.9	345.0
120°	348.4	364.0	379.6	387.4	386.7	385.3	383.9	382.5	381.1	379.0	377.0
122.5°	415.2	415.1	415.0	414.9	414.6	413.9	413.2	412.5	411.8	409.5	407.2
125°	443.9	443.5	443.2	443.0	442.6	441.8	441.0	440.2	439.4	437.2	435.0
127.5°	470.4	470.3	470.2	470.1	469.5	468.4	467.2	466.1	464.9	463.2	461.4
130°	494.7	494.8	494.9	495.0	494.4	493.1	491.8	490.6	489.3	488.0	486.8
132.5°	518.1	518.2	518.3	518.4	517.9	516.8	515.8	514.7	513.7	512.4	511.2
135°	540.7	541.0	541.2	541.3	540.7	539.6	538.4	537.3	536.1	535.1	534.0
137.5°	561.8	562.1	562.4	562.6	562.0	560.9	559.7	558.6	557.4	556.2	555.1
140°	581.5	582.0	582.6	582.9	582.4	581.3	580.3	579.2	578.2	576.9	575.7
142.5°	600.2	600.7	601.3	601.6	601.1	600.2	599.3	598.4	597.5	596.0	594.5
145°	617.4	617.9	618.5	618.8	618.4	617.6	616.7	615.9	615.1	613.1	611.2
147.5°	632.7	633.2	633.7	633.9	633.6	633.0	632.5	631.9	631.3	629.3	627.3
150°	647.0	647.5	648.1	648.4	648.1	647.4	646.7	646.0	645.3	643.5	641.6
152.5°	659.4	660.2	661.0	661.4	661.1	660.4	659.7	659.0	658.3	656.6	654.8
155°	670.6	671.5	672.4	672.9	672.5	671.8	671.1	670.4	669.7	668.3	666.9
157.5°	681.0	681.9	682.8	683.3	682.9	682.1	681.2	680.4	679.6	678.6	677.5
160°	689.5	690.4	691.2	691.6	691.3	690.6	689.9	689.2	688.5	687.8	687.1
162.5°	697.3	698.3	699.4	699.9	699.5	698.7	697.9	697.1	696.3	695.7	695.1
165°	704.1	704.9	705.7	706.1	705.7	704.9	704.1	703.3	702.5	702.1	701.8
167.5°	709.3	710.3	711.4	711.9	711.5	710.7	709.8	709.0	708.2	707.9	707.5
170°	713.4	714.4	715.5	716.0	715.6	714.8	714.0	713.2	712.4	712.2	711.9
172.5°	716.5	717.6	718.6	719.1	718.7	717.9	717.1	716.3	715.5	715.3	715.1
175°	718.3	719.5	720.6	721.2	720.8	720.0	719.2	718.4	717.6	717.4	717.1
177.5°	719.1	720.2	721.2	721.7	721.3	720.5	719.7	718.9	718.1	718.0	717.9
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1926.4	1919.8	1919.8	1915.9	1915.9	1894.9	1894.9	1901.4	1893.6	1884.4	1871.3
5°	1976.2	1961.8	1957.8	1952.6	1935.5	1909.3	1898.8	1894.9	1879.1	1859.5	1837.2
7.5°	2023.4	1999.8	1988.0	1976.2	1953.9	1917.2	1896.2	1881.8	1858.2	1828.0	1799.2
10°	2069.3	2039.1	2009.0	1994.5	1963.1	1917.2	1887.0	1863.4	1829.3	1788.7	1748.0
12.5°	2111.3	2048.3	2043.1	2014.2	1968.3	1915.9	1870.0	1835.9	1792.6	1745.4	1698.2
15°	2148.0	2083.7	2052.2	2026.0	1965.7	1900.1	1851.6	1809.6	1751.9	1698.2	1640.5
17.5°	2166.3	2096.8	2075.9	2032.6	1970.9	1885.7	1820.1	1769.0	1706.1	1641.8	1576.2
20°	2184.7	2103.4	2069.3	2039.1	1955.2	1858.2	1784.7	1725.7	1656.2	1580.2	1508.0
22.5°	2193.9	2103.4	2062.7	2020.8	1939.5	1828.0	1741.5	1672.0	1590.7	1513.3	1426.7
25°	2178.1	2095.5	2047.0	2003.7	1911.9	1791.3	1691.6	1612.9	1526.4	1438.5	1350.7
27.5°	2138.8	2077.2	2020.8	1976.2	1873.9	1744.1	1639.2	1550.0	1460.8	1362.5	1273.3
30°	2065.4	2037.8	1993.2	1943.4	1831.9	1702.1	1577.5	1485.7	1387.4	1289.0	1195.9
32.5°	1951.3	1974.9	1946.0	1902.8	1782.1	1644.4	1512.0	1418.9	1311.3	1205.1	1119.9
35°	1812.3	1896.2	1880.5	1850.3	1729.7	1582.8	1450.3	1337.6	1230.0	1122.5	1037.3
37.5°	1660.2	1787.4	1800.5	1782.1	1669.3	1519.8	1374.3	1264.1	1154.0	1045.1	958.6
40°	1451.7	1647.0	1689.0	1696.9	1606.4	1443.8	1291.7	1184.1	1075.3	969.1	864.2
42.5°	1260.2	1506.7	1559.2	1592.0	1526.4	1369.0	1215.6	1096.3	988.7	893.0	788.1
45°	1080.5	1337.6	1422.8	1464.8	1435.9	1283.8	1125.1	1013.7	915.3	827.5	726.5
47.5°	895.6	1154.0	1273.3	1340.2	1340.2	1197.3	1038.6	928.4	834.0	759.3	670.1
50°	772.4	987.4	1110.7	1198.6	1222.2	1109.4	959.9	852.4	763.2	681.9	613.7
52.5°	658.3	851.1	953.3	1045.1	1113.3	1015.0	872.0	775.0	687.1	611.1	557.3
55°	569.1	713.4	806.5	907.4	983.5	919.2	786.8	692.4	616.3	553.4	507.5
57.5°	483.9	609.8	685.8	775.0	856.3	807.8	701.6	620.3	553.4	498.3	457.7
60°	411.8	514.0	573.1	642.6	743.5	709.4	621.6	546.8	493.1	443.2	409.1
62.5°	350.1	431.4	481.3	531.1	622.9	607.2	539.0	481.3	435.4	393.4	364.6
65°	287.2	354.1	393.4	436.7	510.1	516.7	461.6	420.9	379.0	342.3	316.0
67.5°	232.1	284.6	320.0	356.7	415.7	434.1	396.0	361.9	326.5	296.4	272.8
70°	187.5	224.2	250.5	279.3	327.8	350.1	330.5	306.9	278.0	253.1	232.1
72.5°	148.2	171.8	187.5	209.8	249.2	271.4	270.1	249.2	228.2	211.1	194.1
75°	108.8	127.2	140.3	154.7	186.2	207.2	212.4	203.3	182.3	169.2	156.0
77.5°	82.6	93.1	99.7	110.2	132.4	150.8	158.7	156.0	141.6	131.1	122.0
80°	62.9	65.6	68.2	72.1	90.5	107.5	112.8	111.5	103.6	99.7	89.2
82.5°	44.6	45.9	47.2	48.5	55.1	69.5	74.7	77.4	70.8	66.9	57.7
85°	26.2	27.5	27.5	30.2	31.5	35.4	44.6	44.6	43.3	38.0	36.7
87.5°	13.1	13.1	11.8	11.8	13.1	14.4	17.0	19.7	17.0	15.7	14.4
90°	7.6	6.7	6.2	5.6	4.3	3.0	1.8	0.5	1.8	3.0	4.3
92.5°	11.4	11.1	10.9	11.1	11.6	12.1	12.5	13.0	12.5	12.1	11.6
95°	17.8	17.0	16.6	18.5	22.3	26.2	30.0	33.8	30.0	26.2	22.3
97.5°	21.0	19.1	18.2	22.9	32.4	41.9	51.3	60.8	51.3	41.9	32.4
100°	23.7	21.8	20.8	28.7	44.5	60.4	76.2	92.0	76.2	60.4	44.5
102.5°	93.8	114.8	125.3	125.4	125.7	125.9	126.2	126.4	126.2	125.9	125.7
105°	126.4	157.9	173.7	172.0	168.5	165.0	161.6	158.1	161.6	165.0	168.5
107.5°	149.6	188.5	208.0	206.6	203.7	200.8	197.9	195.0	197.9	200.8	203.7
110°	191.2	224.6	241.3	240.1	237.7	235.2	232.8	230.4	232.8	235.2	237.7

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	270.1	272.0	273.0	272.0	269.9	267.8	265.7	263.6	265.7	267.8	269.9
115°	312.1	309.2	307.8	306.8	304.9	302.9	301.0	299.0	301.0	302.9	304.9
117.5°	343.0	341.1	340.1	338.9	336.6	334.3	332.0	329.7	332.0	334.3	336.6
120°	374.9	372.8	371.8	370.9	369.2	367.5	365.7	364.0	365.7	367.5	369.2
122.5°	404.9	402.6	401.4	400.5	398.6	396.8	394.9	393.1	394.9	396.8	398.6
125°	432.8	430.6	429.5	428.7	427.2	425.7	424.2	422.7	424.2	425.7	427.2
127.5°	459.7	458.0	457.1	456.3	454.7	453.0	451.4	449.8	451.4	453.0	454.7
130°	485.5	484.2	483.6	482.7	480.8	479.0	477.1	475.3	477.1	479.0	480.8
132.5°	509.9	508.6	508.0	507.3	505.8	504.3	502.8	501.3	502.8	504.3	505.8
135°	533.0	531.9	531.4	530.5	528.6	526.8	524.9	523.1	524.9	526.8	528.6
137.5°	553.9	552.8	552.2	551.5	550.1	548.8	547.4	546.0	547.4	548.8	550.1
140°	574.4	573.1	572.5	572.0	571.1	570.2	569.2	568.3	569.2	570.2	571.1
142.5°	593.0	591.5	590.7	590.3	589.5	588.7	587.9	587.1	587.9	588.7	589.5
145°	609.2	607.3	606.3	606.4	606.5	606.6	606.7	606.8	606.7	606.6	606.5
147.5°	625.4	623.4	622.4	622.6	622.9	623.3	623.6	624.0	623.6	623.3	622.9
150°	639.8	637.9	637.0	637.4	638.2	639.0	639.8	640.6	639.8	639.0	638.2
152.5°	653.1	651.4	650.5	651.0	651.9	652.8	653.8	654.7	653.8	652.8	651.9
155°	665.6	664.2	663.5	664.0	665.1	666.1	667.2	668.2	667.2	666.1	665.1
157.5°	676.5	675.4	674.9	675.4	676.3	677.2	678.2	679.1	678.2	677.2	676.3
160°	686.4	685.7	685.3	685.7	686.4	687.1	687.8	688.5	687.8	687.1	686.4
162.5°	694.6	694.0	693.7	694.0	694.7	695.4	696.1	696.8	696.1	695.4	694.7
165°	701.4	701.1	700.9	701.3	702.0	702.7	703.4	704.1	703.4	702.7	702.0
167.5°	707.2	706.9	706.7	707.0	707.7	708.4	709.1	709.8	709.1	708.4	707.7
170°	711.7	711.4	711.3	711.7	712.4	713.1	713.8	714.5	713.8	713.1	712.4
172.5°	714.8	714.6	714.5	714.8	715.5	716.2	716.9	717.6	716.9	716.2	715.5
175°	716.9	716.6	716.5	716.9	717.7	718.6	719.4	720.2	719.4	718.6	717.7
177.5°	717.8	717.7	717.6	718.0	718.8	719.6	720.4	721.2	720.4	719.6	718.8
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1866.0	1867.3	1871.3	1859.5	1841.1	1833.3	1809.6	1805.7	1801.8	1801.8	1805.7
5°	1824.1	1818.8	1820.1	1797.8	1771.6	1755.9	1723.1	1728.3	1711.3	1700.8	1703.4
7.5°	1778.2	1763.8	1762.4	1733.6	1700.8	1672.0	1637.9	1630.0	1614.3	1595.9	1588.0
10°	1720.5	1710.0	1690.3	1657.5	1615.6	1592.0	1546.1	1518.5	1514.6	1487.1	1476.6
12.5°	1661.5	1643.1	1623.4	1577.5	1530.3	1492.3	1458.2	1428.0	1407.1	1383.5	1367.7
15°	1593.3	1571.0	1548.7	1500.2	1445.1	1407.1	1355.9	1311.3	1249.7	1201.2	1173.6
17.5°	1518.5	1493.6	1463.5	1409.7	1355.9	1303.5	1209.1	1156.6	1113.3	1084.5	1067.4
20°	1441.2	1413.6	1383.5	1329.7	1236.6	1144.8	1092.3	1051.7	1025.5	996.6	975.6
22.5°	1359.9	1331.0	1298.2	1214.3	1115.9	1051.7	1011.0	973.0	935.0	919.2	908.8
25°	1283.8	1257.6	1215.6	1101.5	1024.2	965.1	919.2	894.3	874.7	853.7	834.0
27.5°	1205.1	1156.6	1097.6	1001.9	953.3	893.0	860.2	841.9	807.8	793.4	784.2
30°	1110.7	1056.9	1000.6	932.4	876.0	834.0	803.9	773.7	754.0	739.6	723.9
32.5°	1015.0	963.8	928.4	857.6	815.7	772.4	743.5	725.2	696.3	687.1	680.6
35°	932.4	889.1	857.6	799.9	760.6	721.2	700.3	672.7	654.4	637.3	626.8
37.5°	851.1	827.5	794.7	746.2	704.2	672.7	643.9	634.7	609.8	600.6	590.1
40°	794.7	759.3	731.7	689.8	654.4	620.3	601.9	580.9	563.9	549.5	545.5
42.5°	726.5	700.3	684.5	638.6	601.9	582.2	559.9	536.3	523.2	511.4	497.0
45°	675.3	651.7	629.4	592.7	559.9	535.0	515.4	499.6	477.3	472.1	449.8
47.5°	621.6	598.0	580.9	544.2	514.0	490.4	476.0	455.0	436.7	424.9	414.4
50°	567.8	548.1	532.4	500.9	474.7	449.8	430.1	409.1	401.3	381.6	375.0
52.5°	516.7	503.6	486.5	456.3	430.1	409.1	388.2	371.1	359.3	348.8	340.9
55°	473.4	452.4	444.5	411.8	389.5	367.2	348.8	338.3	323.9	317.3	310.8
57.5°	424.9	413.1	400.0	375.0	350.1	329.1	316.0	300.3	292.4	284.6	279.3
60°	382.9	365.9	355.4	334.4	312.1	292.4	280.6	268.8	258.3	251.8	241.3
62.5°	334.4	321.3	314.7	292.4	274.1	255.7	245.2	233.4	225.6	213.7	200.6
65°	292.4	281.9	274.1	255.7	238.7	221.6	211.1	196.7	186.2	179.7	178.3
67.5°	255.7	247.8	236.0	219.0	201.9	188.8	177.0	165.2	163.9	161.3	161.3
70°	215.1	207.2	200.6	182.3	167.9	153.4	150.8	146.9	142.9	141.6	139.0
72.5°	179.7	173.1	165.2	149.5	135.1	131.1	128.5	125.9	122.0	120.6	119.3
75°	145.6	136.4	131.1	116.7	112.8	110.2	107.5	103.6	101.0	99.7	97.0
77.5°	111.5	102.3	102.3	94.4	91.8	87.9	85.2	82.6	81.3	78.7	78.7
80°	78.7	78.7	76.1	72.1	68.2	66.9	62.9	61.6	60.3	61.6	59.0
82.5°	57.7	52.5	52.5	49.8	47.2	45.9	43.3	43.3	42.0	42.0	42.0
85°	32.8	32.8	31.5	28.8	27.5	27.5	26.2	26.2	24.9	24.9	23.6
87.5°	13.1	11.8	13.1	11.8	11.8	10.5	10.5	10.5	9.2	10.5	9.2
90°	5.6	6.2	6.7	7.6	8.5	9.5	10.4	11.0	11.6	12.1	12.7
92.5°	11.1	10.9	11.1	11.4	11.8	12.1	12.5	12.7	12.9	13.2	13.4
95°	18.5	16.6	17.0	17.8	18.7	19.5	20.3	20.9	21.5	22.0	22.6
97.5°	22.9	18.2	19.1	21.0	22.8	24.7	26.5	26.9	27.2	27.6	27.9
100°	28.7	20.8	21.8	23.7	25.7	27.6	29.6	30.5	31.5	32.4	33.3
102.5°	125.4	125.3	114.8	93.8	72.7	51.7	30.7	32.0	33.2	34.5	35.8
105°	172.0	173.7	157.9	126.4	94.8	63.3	31.7	33.0	34.2	35.5	36.8
107.5°	206.6	208.0	188.5	149.6	110.7	71.7	32.8	34.1	35.3	36.6	37.9
110°	240.1	241.3	224.6	191.2	157.8	124.4	91.0	79.4	67.9	56.3	44.8

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	272.0	273.0	272.0	270.1	268.1	266.2	264.2	214.4	164.6	114.7	64.9
115°	306.8	307.8	309.2	312.1	315.0	317.9	320.8	267.3	213.8	160.3	106.8
117.5°	338.9	340.1	341.1	343.0	345.0	346.9	348.9	332.4	315.9	299.4	282.9
120°	370.9	371.8	372.8	374.9	377.0	379.0	381.1	382.5	383.9	385.3	386.7
122.5°	400.5	401.4	402.6	404.9	407.2	409.5	411.8	412.5	413.2	413.9	414.6
125°	428.7	429.5	430.6	432.8	435.0	437.2	439.4	440.2	441.0	441.8	442.6
127.5°	456.3	457.1	458.0	459.7	461.4	463.2	464.9	466.1	467.2	468.4	469.5
130°	482.7	483.6	484.2	485.5	486.8	488.0	489.3	490.6	491.8	493.1	494.4
132.5°	507.3	508.0	508.6	509.9	511.2	512.4	513.7	514.7	515.8	516.8	517.9
135°	530.5	531.4	531.9	533.0	534.0	535.1	536.1	537.3	538.4	539.6	540.7
137.5°	551.5	552.2	552.8	553.9	555.1	556.2	557.4	558.6	559.7	560.9	562.0
140°	572.0	572.5	573.1	574.4	575.7	576.9	578.2	579.2	580.3	581.3	582.4
142.5°	590.3	590.7	591.5	593.0	594.5	596.0	597.5	598.4	599.3	600.2	601.1
145°	606.4	606.3	607.3	609.2	611.2	613.1	615.1	615.9	616.7	617.6	618.4
147.5°	622.6	622.4	623.4	625.4	627.3	629.3	631.3	631.9	632.5	633.0	633.6
150°	637.4	637.0	637.9	639.8	641.6	643.5	645.3	646.0	646.7	647.4	648.1
152.5°	651.0	650.5	651.4	653.1	654.8	656.6	658.3	659.0	659.7	660.4	661.1
155°	664.0	663.5	664.2	665.6	666.9	668.3	669.7	670.4	671.1	671.8	672.5
157.5°	675.4	674.9	675.4	676.5	677.5	678.6	679.6	680.4	681.2	682.1	682.9
160°	685.7	685.3	685.7	686.4	687.1	687.8	688.5	689.2	689.9	690.6	691.3
162.5°	694.0	693.7	694.0	694.6	695.1	695.7	696.3	697.1	697.9	698.7	699.5
165°	701.3	700.9	701.1	701.4	701.8	702.1	702.5	703.3	704.1	704.9	705.7
167.5°	707.0	706.7	706.9	707.2	707.5	707.9	708.2	709.0	709.8	710.7	711.5
170°	711.7	711.3	711.4	711.7	711.9	712.2	712.4	713.2	714.0	714.8	715.6
172.5°	714.8	714.5	714.6	714.8	715.1	715.3	715.5	716.3	717.1	717.9	718.7
175°	716.9	716.5	716.6	716.9	717.1	717.4	717.6	718.4	719.2	720.0	720.8
177.5°	718.0	717.6	717.7	717.8	717.9	718.0	718.1	718.9	719.7	720.5	721.3
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1805.7	1803.1	1795.2	1797.8	1793.9	1793.9	1791.3	1791.3	1791.3	1797.8	1793.9
5°	1707.4	1698.2	1689.0	1685.1	1681.1	1677.2	1677.2	1675.9	1687.7	1685.1	1695.6
7.5°	1585.4	1582.8	1564.4	1564.4	1557.9	1555.2	1561.8	1563.1	1564.4	1567.1	1573.6
10°	1476.6	1470.0	1443.8	1446.4	1442.5	1437.2	1441.2	1438.5	1447.7	1450.3	1447.7
12.5°	1348.1	1336.3	1307.4	1293.0	1277.2	1265.4	1279.9	1269.4	1306.1	1316.6	1345.4
15°	1177.6	1155.3	1135.6	1135.6	1121.2	1110.7	1117.3	1129.1	1136.9	1148.7	1154.0
17.5°	1063.5	1054.3	1038.6	1029.4	1025.5	1021.5	1021.5	1026.8	1043.8	1042.5	1053.0
20°	966.5	961.2	953.3	941.5	937.6	935.0	935.0	935.0	946.8	957.3	963.8
22.5°	899.6	895.6	890.4	874.7	866.8	864.2	870.7	874.7	883.8	891.7	898.3
25°	832.7	823.5	814.3	809.1	805.2	805.2	807.8	809.1	813.0	817.0	824.8
27.5°	777.6	771.1	758.0	743.5	743.5	739.6	742.2	744.8	754.0	767.1	773.7
30°	716.0	714.7	709.4	704.2	698.9	696.3	701.6	705.5	706.8	713.4	713.4
32.5°	671.4	662.2	653.0	647.8	645.2	643.9	645.2	650.4	650.4	658.3	667.5
35°	626.8	621.6	612.4	603.2	600.6	594.0	599.3	604.5	613.7	617.6	621.6
37.5°	578.3	571.7	567.8	565.2	559.9	561.3	557.3	565.2	573.1	571.7	574.4
40°	541.6	529.8	518.0	516.7	515.4	514.0	514.0	515.4	520.6	525.8	533.7
42.5°	494.4	490.4	480.0	469.5	466.8	464.2	461.6	466.8	477.3	486.5	490.4
45°	445.9	440.6	438.0	430.1	424.9	423.6	420.9	427.5	436.7	440.6	443.2
47.5°	401.3	400.0	392.1	393.4	389.5	390.8	389.5	393.4	393.4	397.3	400.0
50°	371.1	367.2	363.2	360.6	356.7	356.7	355.4	356.7	361.9	367.2	365.9
52.5°	340.9	334.4	333.1	331.8	329.1	331.8	327.8	329.1	334.4	337.0	335.7
55°	305.5	304.2	301.6	299.0	297.7	296.4	296.4	296.4	301.6	305.5	306.9
57.5°	278.0	271.4	266.2	266.2	261.0	259.6	262.3	263.6	267.5	270.1	272.8
60°	240.0	237.4	229.5	225.6	217.7	216.4	216.4	221.6	228.2	237.4	240.0
62.5°	199.3	195.4	194.1	194.1	194.1	194.1	194.1	194.1	194.1	195.4	195.4
65°	177.0	178.3	177.0	175.7	177.0	177.0	175.7	175.7	175.7	177.0	178.3
67.5°	158.7	157.4	158.7	157.4	156.0	156.0	154.7	156.0	157.4	158.7	158.7
70°	137.7	137.7	136.4	137.7	136.4	135.1	133.8	133.8	136.4	137.7	137.7
72.5°	118.0	118.0	116.7	116.7	114.1	114.1	115.4	114.1	114.1	118.0	118.0
75°	98.4	97.0	95.7	95.7	94.4	94.4	94.4	93.1	95.7	95.7	97.0
77.5°	77.4	77.4	77.4	76.1	76.1	74.7	74.7	76.1	76.1	76.1	77.4
80°	59.0	59.0	59.0	57.7	56.4	56.4	56.4	56.4	56.4	57.7	56.4
82.5°	40.7	40.7	40.7	40.7	40.7	39.3	39.3	39.3	40.7	40.7	39.3
85°	24.9	23.6	24.9	24.9	23.6	24.9	23.6	23.6	22.3	22.3	23.6
87.5°	10.5	9.2	7.9	7.9	9.2	7.9	7.9	7.9	9.2	7.9	7.9
90°	13.0	13.1	13.3	13.6	13.8	14.0	13.8	13.6	13.3	13.1	13.0
92.5°	13.5	13.6	13.7	13.8	13.9	14.0	13.9	13.8	13.7	13.6	13.5
95°	22.9	22.8	22.7	22.6	22.5	22.4	22.5	22.6	22.7	22.8	22.9
97.5°	28.1	28.2	28.3	28.4	28.5	28.6	28.5	28.4	28.3	28.2	28.1
100°	33.8	33.9	34.1	34.4	34.6	34.8	34.6	34.4	34.1	33.9	33.8
102.5°	36.4	36.6	36.9	37.3	37.6	38.0	37.6	37.3	36.9	36.6	36.4
105°	37.4	37.6	38.1	38.6	39.0	39.5	39.0	38.6	38.1	37.6	37.4
107.5°	38.5	38.7	39.2	39.7	40.1	40.6	40.1	39.7	39.2	38.7	38.5
110°	39.0	39.2	39.7	40.2	40.6	41.1	40.6	40.2	39.7	39.2	39.0

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	40.0	40.2	40.5	40.9	41.2	41.6	41.2	40.9	40.5	40.2	40.0
115°	80.1	75.9	67.6	59.3	50.9	42.6	50.9	59.3	67.6	75.9	80.1
117.5°	274.6	259.5	229.2	198.9	168.6	138.3	168.6	198.9	229.2	259.5	274.6
120°	387.4	379.6	364.0	348.4	332.8	317.2	332.8	348.4	364.0	379.6	387.4
122.5°	414.9	415.0	415.1	415.2	415.4	415.5	415.4	415.2	415.1	415.0	414.9
125°	443.0	443.2	443.5	443.9	444.2	444.6	444.2	443.9	443.5	443.2	443.0
127.5°	470.1	470.2	470.3	470.4	470.5	470.6	470.5	470.4	470.3	470.2	470.1
130°	495.0	494.9	494.8	494.7	494.6	494.5	494.6	494.7	494.8	494.9	495.0
132.5°	518.4	518.3	518.2	518.1	518.0	517.9	518.0	518.1	518.2	518.3	518.4
135°	541.3	541.2	541.0	540.7	540.5	540.3	540.5	540.7	541.0	541.2	541.3
137.5°	562.6	562.4	562.1	561.8	561.4	561.1	561.4	561.8	562.1	562.4	562.6
140°	582.9	582.6	582.0	581.5	580.9	580.3	580.9	581.5	582.0	582.6	582.9
142.5°	601.6	601.3	600.7	600.2	599.6	599.0	599.6	600.2	600.7	601.3	601.6
145°	618.8	618.5	617.9	617.4	616.8	616.2	616.8	617.4	617.9	618.5	618.8
147.5°	633.9	633.7	633.2	632.7	632.3	631.8	632.3	632.7	633.2	633.7	633.9
150°	648.4	648.1	647.5	647.0	646.4	645.8	646.4	647.0	647.5	648.1	648.4
152.5°	661.4	661.0	660.2	659.4	658.6	657.8	658.6	659.4	660.2	661.0	661.4
155°	672.9	672.4	671.5	670.6	669.6	668.7	669.6	670.6	671.5	672.4	672.9
157.5°	683.3	682.8	681.9	681.0	680.0	679.1	680.0	681.0	681.9	682.8	683.3
160°	691.6	691.2	690.4	689.5	688.7	687.9	688.7	689.5	690.4	691.2	691.6
162.5°	699.9	699.4	698.3	697.3	696.2	695.2	696.2	697.3	698.3	699.4	699.9
165°	706.1	705.7	704.9	704.1	703.3	702.5	703.3	704.1	704.9	705.7	706.1
167.5°	711.9	711.4	710.3	709.3	708.2	707.2	708.2	709.3	710.3	711.4	711.9
170°	716.0	715.5	714.4	713.4	712.3	711.3	712.3	713.4	714.4	715.5	716.0
172.5°	719.1	718.6	717.6	716.5	715.5	714.5	715.5	716.5	717.6	718.6	719.1
175°	721.2	720.6	719.5	718.3	717.2	716.0	717.2	718.3	719.5	720.6	721.2
177.5°	721.7	721.2	720.2	719.1	718.1	717.1	718.1	719.1	720.2	721.2	721.7
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0	1887.0
2.5°	1797.8	1804.4	1801.8	1787.4	1801.8	1805.7	1813.6	1821.5	1826.7	1834.6	1841.1
5°	1685.1	1698.2	1706.1	1698.2	1724.4	1728.3	1746.7	1757.2	1772.9	1786.0	1796.5
7.5°	1578.9	1589.3	1605.1	1607.7	1623.4	1641.8	1668.0	1694.3	1719.2	1732.3	1744.1
10°	1464.8	1483.1	1506.7	1501.5	1525.1	1553.9	1581.5	1623.4	1644.4	1668.0	1689.0
12.5°	1350.7	1362.5	1394.0	1404.4	1438.5	1460.8	1498.9	1525.1	1577.5	1605.1	1623.4
15°	1151.4	1199.9	1239.2	1286.4	1331.0	1373.0	1407.1	1454.3	1500.2	1521.2	1551.3
17.5°	1060.9	1083.2	1106.8	1130.4	1188.1	1262.8	1323.1	1374.3	1413.6	1441.2	1476.6
20°	966.5	988.7	1015.0	1037.3	1072.7	1126.4	1201.2	1289.0	1336.3	1365.1	1399.2
22.5°	899.6	920.6	937.6	957.3	984.8	1024.2	1080.5	1189.4	1252.3	1287.7	1317.9
25°	827.5	853.7	872.0	886.5	908.8	952.0	997.9	1059.6	1172.3	1199.9	1241.8
27.5°	777.6	785.5	806.5	828.8	851.1	874.7	921.9	974.3	1050.4	1110.7	1161.8
30°	718.6	738.3	758.0	767.1	786.8	820.9	849.7	906.1	965.1	1012.4	1074.0
32.5°	674.0	685.8	698.9	721.2	739.6	763.2	792.0	839.3	889.1	919.2	966.5
35°	624.2	632.1	659.6	668.8	687.1	710.7	739.6	776.3	830.1	853.7	887.8
37.5°	577.0	595.3	603.2	624.2	641.2	664.8	685.8	727.8	763.2	790.7	822.2
40°	540.3	548.1	562.6	580.9	595.3	613.7	639.9	670.1	708.1	730.4	758.0
42.5°	495.7	502.2	520.6	531.1	554.7	571.7	587.5	624.2	658.3	675.3	702.9
45°	447.2	462.9	474.7	495.7	508.8	529.8	549.5	575.7	607.2	626.8	642.6
47.5°	405.2	420.9	432.7	452.4	473.4	482.6	503.6	531.1	559.9	575.7	598.0
50°	371.1	376.4	398.6	407.8	430.1	448.5	462.9	486.5	518.0	527.2	545.5
52.5°	338.3	342.3	356.7	368.5	388.2	403.9	422.3	444.5	470.8	485.2	499.6
55°	309.5	312.1	318.7	331.8	344.9	364.6	381.6	402.6	424.9	440.6	453.7
57.5°	276.7	281.9	287.2	295.1	308.2	326.5	344.9	364.6	382.9	393.4	410.4
60°	238.7	246.5	255.7	264.9	274.1	287.2	308.2	326.5	343.6	352.8	365.9
62.5°	198.0	213.7	221.6	232.1	240.0	251.8	267.5	288.5	300.3	312.1	322.6
65°	178.3	179.7	181.0	191.5	205.9	217.7	232.1	247.8	266.2	274.1	281.9
67.5°	158.7	160.0	162.6	163.9	169.2	182.3	198.0	215.1	229.5	234.7	242.6
70°	139.0	139.0	144.2	145.6	146.9	148.2	161.3	178.3	191.5	198.0	207.2
72.5°	118.0	119.3	122.0	123.3	125.9	128.5	132.4	141.6	157.4	163.9	174.4
75°	97.0	98.4	99.7	101.0	104.9	106.2	110.2	115.4	122.0	129.8	136.4
77.5°	77.4	77.4	78.7	81.3	83.9	85.2	89.2	91.8	94.4	98.4	103.6
80°	57.7	59.0	59.0	61.6	61.6	62.9	64.3	68.2	70.8	73.4	76.1
82.5°	39.3	42.0	42.0	42.0	43.3	44.6	45.9	45.9	48.5	49.8	53.8
85°	23.6	24.9	24.9	24.9	23.6	26.2	26.2	27.5	27.5	27.5	28.8
87.5°	9.2	7.9	9.2	9.2	9.2	10.5	9.2	9.2	10.5	11.8	11.8
90°	12.7	12.1	11.6	11.0	10.4	9.5	8.5	7.6	6.7	6.2	5.6
92.5°	13.4	13.2	12.9	12.7	12.5	12.1	11.8	11.4	11.1	10.9	11.1
95°	22.6	22.0	21.5	20.9	20.3	19.5	18.7	17.8	17.0	16.6	18.5
97.5°	27.9	27.6	27.2	26.9	26.5	24.7	22.8	21.0	19.1	18.2	22.9
100°	33.3	32.4	31.5	30.5	29.6	27.6	25.7	23.7	21.8	20.8	28.7
102.5°	35.8	34.5	33.2	32.0	30.7	51.7	72.7	93.8	114.8	125.3	125.4
105°	36.8	35.5	34.2	33.0	31.7	63.3	94.8	126.4	157.9	173.7	172.0
107.5°	37.9	36.6	35.3	34.1	32.8	71.7	110.7	149.6	188.5	208.0	206.6
110°	44.8	56.3	67.9	79.4	91.0	124.4	157.8	191.2	224.6	241.3	240.1

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CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	64.9	114.7	164.6	214.4	264.2	266.2	268.1	270.1	272.0	273.0	272.0
115°	106.8	160.3	213.8	267.3	320.8	317.9	315.0	312.1	309.2	307.8	306.8
117.5°	282.9	299.4	315.9	332.4	348.9	346.9	345.0	343.0	341.1	340.1	338.9
120°	386.7	385.3	383.9	382.5	381.1	379.0	377.0	374.9	372.8	371.8	370.9
122.5°	414.6	413.9	413.2	412.5	411.8	409.5	407.2	404.9	402.6	401.4	400.5
125°	442.6	441.8	441.0	440.2	439.4	437.2	435.0	432.8	430.6	429.5	428.7
127.5°	469.5	468.4	467.2	466.1	464.9	463.2	461.4	459.7	458.0	457.1	456.3
130°	494.4	493.1	491.8	490.6	489.3	488.0	486.8	485.5	484.2	483.6	482.7
132.5°	517.9	516.8	515.8	514.7	513.7	512.4	511.2	509.9	508.6	508.0	507.3
135°	540.7	539.6	538.4	537.3	536.1	535.1	534.0	533.0	531.9	531.4	530.5
137.5°	562.0	560.9	559.7	558.6	557.4	556.2	555.1	553.9	552.8	552.2	551.5
140°	582.4	581.3	580.3	579.2	578.2	576.9	575.7	574.4	573.1	572.5	572.0
142.5°	601.1	600.2	599.3	598.4	597.5	596.0	594.5	593.0	591.5	590.7	590.3
145°	618.4	617.6	616.7	615.9	615.1	613.1	611.2	609.2	607.3	606.3	606.4
147.5°	633.6	633.0	632.5	631.9	631.3	629.3	627.3	625.4	623.4	622.4	622.6
150°	648.1	647.4	646.7	646.0	645.3	643.5	641.6	639.8	637.9	637.0	637.4
152.5°	661.1	660.4	659.7	659.0	658.3	656.6	654.8	653.1	651.4	650.5	651.0
155°	672.5	671.8	671.1	670.4	669.7	668.3	666.9	665.6	664.2	663.5	664.0
157.5°	682.9	682.1	681.2	680.4	679.6	678.6	677.5	676.5	675.4	674.9	675.4
160°	691.3	690.6	689.9	689.2	688.5	687.8	687.1	686.4	685.7	685.3	685.7
162.5°	699.5	698.7	697.9	697.1	696.3	695.7	695.1	694.6	694.0	693.7	694.0
165°	705.7	704.9	704.1	703.3	702.5	702.1	701.8	701.4	701.1	700.9	701.3
167.5°	711.5	710.7	709.8	709.0	708.2	707.9	707.5	707.2	706.9	706.7	707.0
170°	715.6	714.8	714.0	713.2	712.4	712.2	711.9	711.7	711.4	711.3	711.7
172.5°	718.7	717.9	717.1	716.3	715.5	715.3	715.1	714.8	714.6	714.5	714.8
175°	720.8	720.0	719.2	718.4	717.6	717.4	717.1	716.9	716.6	716.5	716.9
177.5°	721.3	720.5	719.7	718.9	718.1	718.0	717.9	717.8	717.7	717.6	718.0
180°	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6	718.6

TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1887.0	1887.0	1887.0	1887.0
2.5°	1852.9	1849.0	1872.6	1898.8
5°	1814.9	1821.5	1851.6	1888.3
7.5°	1775.6	1790.0	1825.4	1873.9
10°	1720.5	1746.7	1800.5	1850.3
12.5°	1666.7	1702.1	1753.3	1812.3
15°	1606.4	1645.7	1708.7	1779.5
17.5°	1539.5	1584.1	1657.5	1734.9
20°	1468.7	1527.7	1605.1	1689.0
22.5°	1390.0	1460.8	1540.8	1633.9
25°	1314.0	1391.3	1471.3	1578.9
27.5°	1239.2	1315.3	1404.4	1513.3
30°	1164.5	1234.0	1329.7	1446.4
32.5°	1084.5	1156.6	1257.6	1376.9
35°	1011.0	1083.2	1177.6	1295.6
37.5°	932.4	1009.7	1100.2	1222.2
40°	840.6	931.1	1018.9	1135.6
42.5°	764.5	860.2	945.5	1055.6
45°	704.2	794.7	865.5	973.0
47.5°	647.8	721.2	793.4	893.0
50°	594.0	650.4	725.2	814.3
52.5°	539.0	587.5	651.7	735.7
55°	489.1	535.0	592.7	657.0
57.5°	443.2	476.0	533.7	591.4
60°	392.1	426.2	470.8	519.3
62.5°	348.8	375.0	417.0	457.7
65°	302.9	327.8	359.3	397.3
67.5°	261.0	283.2	308.2	338.3
70°	222.9	240.0	258.3	284.6
72.5°	182.3	200.6	217.7	238.7
75°	149.5	157.4	171.8	186.2
77.5°	115.4	125.9	133.8	145.6
80°	82.6	91.8	94.4	103.6
82.5°	55.1	60.3	65.6	68.2
85°	31.5	34.1	39.3	40.7
87.5°	11.8	13.1	15.7	18.4
90°	4.3	3.0	1.8	0.5
92.5°	11.6	12.1	12.5	13.0
95°	22.3	26.2	30.0	33.8
97.5°	32.4	41.9	51.3	60.8
100°	44.5	60.4	76.2	92.0
102.5°	125.7	125.9	126.2	126.4
105°	168.5	165.0	161.6	158.1
107.5°	203.7	200.8	197.9	195.0
110°	237.7	235.2	232.8	230.4



TEST NUMBER: P1000148

CATALOG NUMBER: SA2XXRDIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	269.9	267.8	265.7	263.6
115°	304.9	302.9	301.0	299.0
117.5°	336.6	334.3	332.0	329.7
120°	369.2	367.5	365.7	364.0
122.5°	398.6	396.8	394.9	393.1
125°	427.2	425.7	424.2	422.7
127.5°	454.7	453.0	451.4	449.8
130°	480.8	479.0	477.1	475.3
132.5°	505.8	504.3	502.8	501.3
135°	528.6	526.8	524.9	523.1
137.5°	550.1	548.8	547.4	546.0
140°	571.1	570.2	569.2	568.3
142.5°	589.5	588.7	587.9	587.1
145°	606.5	606.6	606.7	606.8
147.5°	622.9	623.3	623.6	624.0
150°	638.2	639.0	639.8	640.6
152.5°	651.9	652.8	653.8	654.7
155°	665.1	666.1	667.2	668.2
157.5°	676.3	677.2	678.2	679.1
160°	686.4	687.1	687.8	688.5
162.5°	694.7	695.4	696.1	696.8
165°	702.0	702.7	703.4	704.1
167.5°	707.7	708.4	709.1	709.8
170°	712.4	713.1	713.8	714.5
172.5°	715.5	716.2	716.9	717.6
175°	717.7	718.6	719.4	720.2
177.5°	718.8	719.6	720.4	721.2
180°	718.6	718.6	718.6	718.6

(END OF REPORT)