

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: P1008252

Luminaire Tested: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008252
REPORT IS A COMBINATION OF REPORTS P984850 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

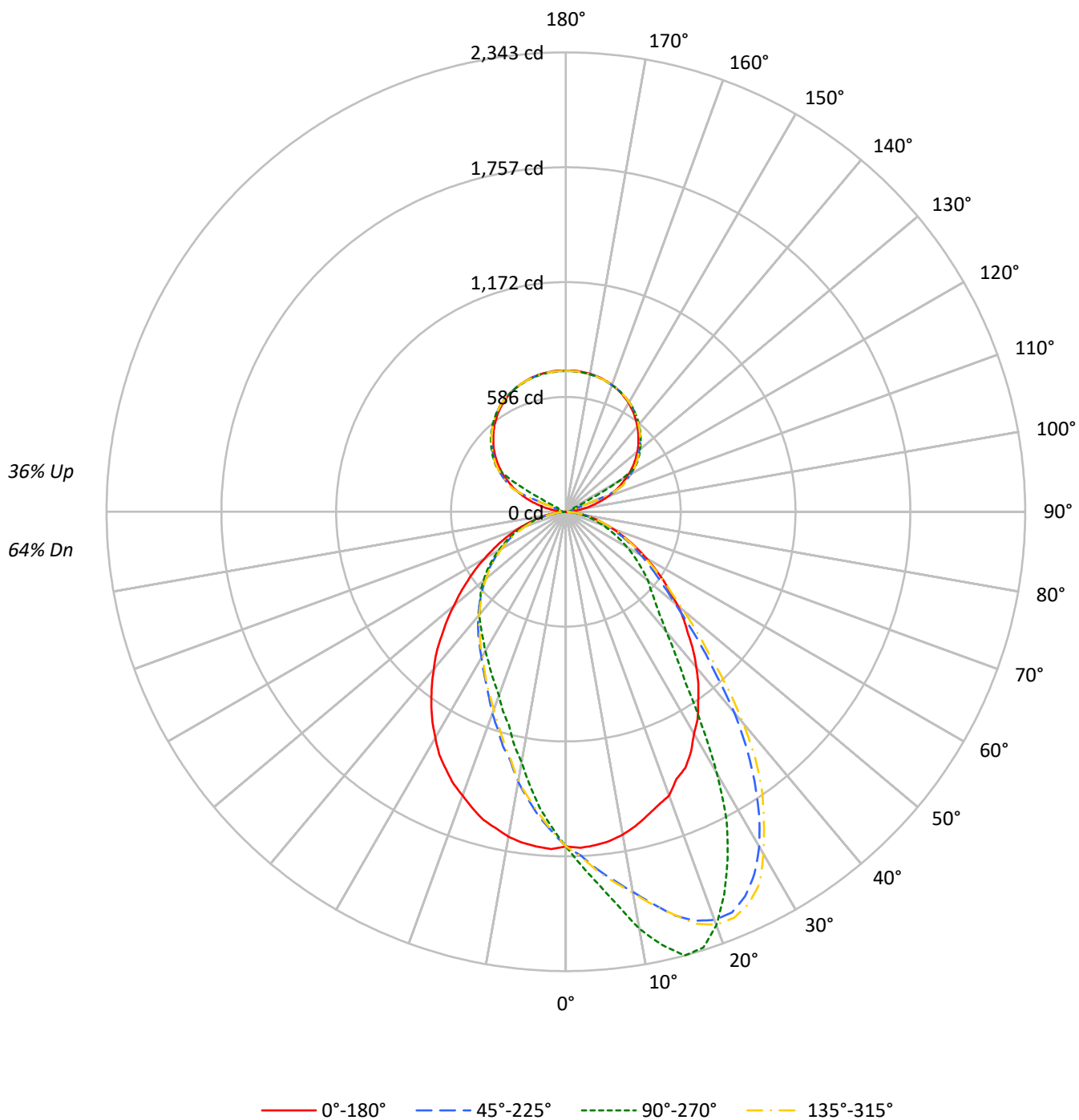
Lumens per Lamp: N/A
Luminaire Lumens: 5873.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1008252

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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	64		
1	102	97	94	90	95	92	88	85	81	79	76	71	69	68	62	61	60	55		
2	93	86	80	75	87	81	76	71	72	68	64	63	60	58	55	53	51	47		
3	85	76	69	63	80	72	65	60	64	59	55	56	53	49	50	47	44	41		
4	78	68	60	54	73	64	57	52	57	52	47	51	46	43	45	41	39	36		
5	72	61	53	47	68	58	50	45	52	46	41	46	41	38	41	37	34	31		
6	67	55	47	41	63	52	45	40	47	41	36	42	37	33	37	33	30	28		
7	62	50	42	36	58	47	40	35	43	37	32	38	33	30	34	30	27	25		
8	58	46	38	33	54	43	36	31	39	33	29	35	30	27	32	28	25	22		
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	29	25	22	20		
10	51	38	31	26	48	37	30	26	33	28	24	30	26	22	27	23	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	27013	27013	27013	27013
5°	27077	28801	27180	22914
10°	26763	31441	26931	18891
15°	26114	33163	26477	15913
20°	25706	31139	25706	13832
25°	24887	26752	25001	12368
30°	23539	21029	23987	11203
35°	22345	14541	22718	10251
40°	20972	10979	21211	9491
45°	19278	9022	19595	8671
50°	17816	7919	17847	7938
55°	16148	6748	16251	7141
60°	14368	5636	14568	6232
65°	12776	4584	13011	5323
70°	11191	3597	11476	4294
75°	9392	2611	9762	3112
80°	7329	1655	7856	1848
85°	4817	832	5184	616

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 27922 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	2.8
10°-20°	473.1	8.1
20°-30°	686.6	11.7
30°-40°	723.8	12.3
40°-50°	640.5	10.9
50°-60°	511.4	8.7
60°-70°	347.4	5.9
70°-80°	177.7	3.0
80°-90°	43.3	0.7
90°-100°	23.7	0.4
100°-110°	88.3	1.5
110°-120°	234.3	4.0
120°-130°	388.6	6.6
130°-140°	412.7	7.0
140°-150°	383.6	6.5
150°-160°	308.4	5.3
160°-170°	198.7	3.4
170°-180°	68.4	1.2
0°-30°	1322.2	22.5
0°-40°	2046.0	34.8
0°-60°	3197.9	54.5
0°-90°	3766.3	64.1
90°-120°	346.3	5.9
90°-150°	1531.2	26.1
90°-180°	2107.0	35.9
0°-180°	5873.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1706	1706	1706	1706	1706	
5°	1708	1906	1714	1516	1708	162
15°	1604	2343	1626	1124	1604	453
25°	1442	1952	1448	902	1442	659
35°	1177	1062	1196	749	1177	736
45°	883	640	897	615	883	685
55°	606	450	610	476	606	541
65°	359	277	366	321	359	357
75°	168	136	174	163	168	180
85°	34	35	37	26	34	40
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°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1715.7	1719.6	1726.1	1727.5	1740.6	1751.1	1762.9	1762.9	1766.8	1765.5	1755.0
5°	1707.8	1719.6	1736.6	1751.1	1774.7	1785.2	1800.9	1812.7	1823.2	1831.1	1829.8
7.5°	1694.7	1715.7	1740.6	1768.1	1799.6	1818.0	1840.3	1861.2	1875.7	1888.8	1898.0
10°	1672.4	1707.8	1741.9	1778.6	1819.3	1844.2	1870.4	1898.0	1920.3	1945.2	1968.8
12.5°	1642.2	1693.4	1735.3	1783.9	1833.7	1861.2	1903.2	1924.2	1967.5	2030.5	2047.5
15°	1604.2	1673.7	1713.0	1774.7	1840.3	1862.6	1920.3	1954.4	2043.6	2082.9	2130.1
17.5°	1568.7	1646.1	1698.6	1769.4	1833.7	1877.0	1933.4	2002.9	2077.7	2134.1	2186.5
20°	1539.9	1614.7	1677.6	1756.3	1837.6	1892.7	1951.8	2035.7	2117.0	2174.7	2215.4
22.5°	1474.3	1570.1	1643.5	1731.4	1829.8	1905.8	1962.2	2054.1	2141.9	2177.4	2212.8
25°	1441.5	1524.2	1609.4	1709.1	1824.5	1915.0	1963.6	2065.9	2143.3	2156.4	2164.2
27.5°	1381.2	1474.3	1574.0	1688.1	1823.2	1899.3	1960.9	2054.1	2115.7	2106.5	2082.9
30°	1306.4	1420.5	1530.7	1654.0	1804.8	1887.5	1945.2	2030.5	2061.9	2014.7	1972.7
32.5°	1251.3	1358.9	1480.9	1623.8	1783.9	1862.6	1919.0	1985.9	1992.4	1907.2	1836.3
35°	1176.6	1295.9	1433.6	1584.5	1748.4	1819.3	1871.7	1912.4	1880.9	1761.6	1677.6
37.5°	1109.7	1227.7	1374.6	1528.1	1699.9	1769.4	1811.4	1818.0	1740.6	1635.6	1512.3
40°	1036.2	1158.2	1311.7	1473.0	1646.1	1706.5	1732.7	1713.0	1601.5	1479.6	1336.6
42.5°	962.8	1083.4	1248.7	1414.0	1577.9	1629.1	1639.6	1585.8	1449.4	1306.4	1141.1
45°	882.7	1008.7	1173.9	1340.5	1499.2	1528.1	1529.4	1452.0	1290.7	1141.1	987.7
47.5°	817.2	933.9	1097.9	1264.4	1398.2	1417.9	1410.0	1320.8	1145.1	977.2	843.4
50°	745.0	856.5	1019.2	1183.1	1297.2	1302.5	1282.8	1155.6	983.7	830.3	724.0
52.5°	667.6	780.4	930.0	1087.4	1189.7	1181.8	1143.8	1007.4	846.0	718.8	637.5
55°	606.0	705.7	846.0	999.5	1071.6	1049.3	1007.4	868.3	741.1	633.5	562.7
57.5°	537.8	625.7	763.4	897.2	939.2	918.2	876.2	746.3	628.3	547.0	499.7
60°	473.5	553.5	674.2	785.7	818.5	796.2	747.6	630.9	545.7	477.4	442.0
62.5°	414.5	484.0	585.0	687.3	700.4	678.1	636.2	541.7	468.3	414.5	388.3
65°	359.4	425.0	506.3	583.7	595.5	571.9	528.6	460.4	398.7	364.6	339.7
67.5°	305.6	358.1	430.2	486.6	493.2	470.9	435.5	380.4	342.3	305.6	287.3
70°	258.4	297.7	354.1	400.1	402.7	381.7	363.3	313.5	284.6	258.4	244.0
72.5°	212.5	240.0	283.3	317.4	318.7	305.6	288.6	257.1	232.2	213.8	199.4
75°	167.9	191.5	217.7	247.9	246.6	236.1	223.0	203.3	182.3	170.5	164.0
77.5°	128.5	143.0	164.0	183.6	183.6	178.4	170.5	156.1	143.0	131.2	124.6
80°	91.8	101.0	118.0	124.6	127.2	125.9	119.4	108.9	103.6	94.4	91.8
82.5°	59.0	65.6	73.5	80.0	83.9	81.3	80.0	74.8	66.9	64.3	61.6
85°	34.1	36.7	40.7	44.6	45.9	44.6	47.2	43.3	39.3	39.3	38.0
87.5°	14.4	15.7	18.4	18.4	19.7	19.7	18.4	19.7	19.7	18.4	17.1
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°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1773.4	1774.7	1777.3	1790.4	1797.0	1798.3	1793.0	1804.8	1808.8	1804.8	1802.2
5°	1857.3	1865.2	1880.9	1898.0	1896.7	1898.0	1905.8	1913.7	1916.3	1905.8	1909.8
7.5°	1930.8	1946.5	1963.6	1989.8	1989.8	2002.9	2008.2	2014.7	2030.5	2022.6	2020.0
10°	2014.7	2035.7	2067.2	2109.2	2110.5	2123.6	2136.7	2157.7	2164.2	2159.0	2161.6
12.5°	2119.6	2160.3	2162.9	2208.8	2229.8	2232.5	2253.4	2249.5	2262.6	2262.6	2284.9
15°	2165.6	2228.5	2263.9	2308.5	2321.6	2305.9	2323.0	2341.3	2342.6	2342.6	2341.3
17.5°	2248.2	2273.1	2308.5	2332.1	2337.4	2337.4	2338.7	2346.6	2341.3	2330.8	2338.7
20°	2265.2	2275.7	2288.9	2286.2	2288.9	2275.7	2262.6	2249.5	2250.8	2244.3	2263.9
22.5°	2233.8	2231.1	2201.0	2181.3	2181.3	2155.1	2130.1	2118.3	2106.5	2110.5	2117.0
25°	2155.1	2114.4	2077.7	2048.8	2042.3	2000.3	1966.2	1955.7	1936.0	1951.8	1954.4
27.5°	2029.1	1983.2	1924.2	1899.3	1865.2	1848.1	1824.5	1793.0	1752.4	1776.0	1772.1
30°	1894.0	1825.8	1777.3	1717.0	1663.2	1659.3	1614.7	1562.2	1541.2	1541.2	1553.0
32.5°	1743.2	1652.7	1581.9	1496.6	1444.1	1421.8	1368.1	1315.6	1327.4	1288.1	1302.5
35°	1567.4	1448.1	1358.9	1276.2	1236.9	1210.7	1141.1	1112.3	1080.8	1062.4	1096.6
37.5°	1399.5	1261.8	1147.7	1057.2	1042.8	995.6	948.3	930.0	911.6	919.5	918.2
40°	1194.9	1072.9	970.6	899.8	874.9	852.6	821.1	798.8	787.0	793.6	794.9
42.5°	1010.0	907.7	831.6	781.8	760.8	745.0	729.3	710.9	707.0	707.0	712.2
45°	867.0	783.1	731.9	691.2	679.4	667.6	655.8	648.0	645.3	640.1	644.0
47.5°	752.9	686.0	654.5	624.4	611.2	608.6	598.1	594.2	588.9	587.6	588.9
50°	657.1	615.2	586.3	569.3	560.1	556.1	550.9	543.0	540.4	547.0	544.3
52.5°	590.2	550.9	535.2	518.1	512.9	507.6	499.7	501.1	499.7	497.1	497.1
55°	523.4	498.4	482.7	469.6	468.3	463.0	456.5	453.8	452.5	449.9	453.8
57.5°	469.6	449.9	435.5	423.7	418.4	418.4	411.9	406.6	406.6	405.3	406.6
60°	415.8	396.1	386.9	375.1	371.2	369.9	366.0	363.3	359.4	359.4	359.4
62.5°	366.0	350.2	339.7	329.2	330.5	324.0	318.7	316.1	316.1	317.4	317.4
65°	318.7	308.2	295.1	285.9	283.3	282.0	279.4	278.1	274.1	276.8	276.8
67.5°	275.4	261.0	253.2	249.2	245.3	244.0	241.3	238.7	237.4	236.1	238.7
70°	232.2	220.4	213.8	211.2	207.2	205.9	204.6	200.7	202.0	203.3	204.6
72.5°	192.8	182.3	181.0	173.1	173.1	173.1	167.9	170.5	169.2	166.6	169.2
75°	152.2	146.9	144.3	140.3	141.7	140.3	139.0	135.1	135.1	136.4	137.7
77.5°	120.7	115.4	114.1	110.2	107.6	110.2	107.6	106.2	106.2	107.6	107.6
80°	89.2	86.6	82.6	82.6	82.6	81.3	81.3	81.3	80.0	78.7	80.0
82.5°	59.0	59.0	57.7	56.4	57.7	55.1	56.4	56.4	56.4	56.4	56.4
85°	38.0	36.7	36.7	35.4	35.4	35.4	36.7	34.1	34.1	35.4	35.4
87.5°	17.1	17.1	17.1	18.4	17.1	17.1	17.1	18.4	17.1	17.1	17.1
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: P1008252

CATALOG NUMBER: S122DIP-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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1808.8	1799.6	1791.7	1793.0	1799.6	1794.4	1781.2	1764.2	1757.6	1749.8	1757.6
5°	1917.7	1909.8	1894.0	1895.4	1891.4	1886.2	1865.2	1839.0	1839.0	1818.0	1815.3
7.5°	2025.2	2013.4	2002.9	2000.3	1985.9	1975.4	1957.0	1920.3	1905.8	1880.9	1866.5
10°	2145.9	2136.7	2124.9	2110.5	2102.6	2084.2	2054.1	2000.3	1974.1	1939.9	1915.0
12.5°	2267.9	2266.6	2240.3	2211.5	2210.2	2181.3	2160.3	2088.2	2052.8	2006.8	1947.8
15°	2345.3	2338.7	2324.3	2309.8	2313.8	2282.3	2235.1	2149.8	2126.2	2071.1	2008.2
17.5°	2343.9	2343.9	2340.0	2337.4	2333.4	2324.3	2298.0	2241.6	2203.6	2134.1	2075.1
20°	2269.2	2286.2	2290.2	2288.9	2302.0	2308.5	2307.2	2271.8	2241.6	2180.0	2119.6
22.5°	2119.6	2159.0	2176.0	2186.5	2214.1	2228.5	2262.6	2249.5	2241.6	2195.7	2144.6
25°	1980.6	1993.7	2044.9	2047.5	2085.5	2121.0	2155.1	2177.4	2206.2	2189.2	2145.9
27.5°	1800.9	1831.1	1867.8	1895.4	1903.2	1975.4	2031.8	2073.7	2139.3	2144.6	2130.1
30°	1597.6	1612.0	1672.4	1709.1	1751.1	1803.5	1884.9	1957.0	2016.0	2069.8	2088.2
32.5°	1349.7	1408.7	1444.1	1488.7	1525.5	1618.6	1718.3	1811.4	1879.6	1970.1	2009.5
35°	1122.8	1168.7	1229.0	1247.4	1314.3	1393.0	1522.8	1642.2	1745.8	1837.6	1917.7
37.5°	935.2	971.9	1036.2	1065.1	1104.4	1205.4	1314.3	1462.5	1587.1	1699.9	1799.6
40°	806.7	834.2	882.7	891.9	924.7	1016.5	1104.4	1243.5	1408.7	1560.9	1669.7
42.5°	718.8	731.9	764.7	776.5	797.5	859.1	937.8	1069.0	1222.5	1379.9	1533.3
45°	655.8	665.0	684.7	695.2	721.4	749.0	813.2	918.2	1038.8	1197.5	1362.8
47.5°	599.4	611.2	619.1	625.7	640.1	670.3	712.2	789.6	905.0	1050.6	1210.7
50°	552.2	556.1	570.6	571.9	581.1	600.7	640.1	687.3	779.1	897.2	1052.0
52.5°	505.0	508.9	518.1	527.3	531.2	547.0	573.2	612.5	680.8	773.9	911.6
55°	457.8	463.0	472.2	478.8	482.7	495.8	511.5	549.6	603.4	668.9	781.8
57.5°	410.6	422.4	425.0	428.9	435.5	449.9	464.3	486.6	528.6	588.9	671.6
60°	366.0	369.9	379.1	383.0	389.6	397.4	415.8	432.8	463.0	510.2	585.0
62.5°	320.0	329.2	333.2	337.1	342.3	351.5	363.3	381.7	407.9	446.0	505.0
65°	280.7	282.0	289.9	295.1	300.4	306.9	318.7	335.8	351.5	386.9	430.2
67.5°	242.7	245.3	247.9	253.2	259.7	266.3	276.8	285.9	305.6	329.2	363.3
70°	205.9	205.9	212.5	216.4	215.1	223.0	230.9	241.3	255.8	278.1	305.6
72.5°	173.1	171.8	177.1	178.4	181.0	186.3	191.5	202.0	209.9	226.9	247.9
75°	137.7	140.3	143.0	143.0	146.9	150.8	156.1	161.3	170.5	181.0	196.7
77.5°	108.9	108.9	111.5	112.8	116.7	115.4	120.7	125.9	132.5	141.7	153.5
80°	80.0	82.6	82.6	82.6	83.9	85.3	90.5	94.4	98.4	104.9	110.2
82.5°	56.4	56.4	59.0	59.0	59.0	61.6	61.6	63.0	65.6	69.5	73.5
85°	35.4	35.4	35.4	36.7	35.4	36.7	39.3	38.0	39.3	42.0	42.0
87.5°	17.1	17.1	17.1	17.1	17.1	18.4	17.1	18.4	19.7	19.7	19.7
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: P1008252

CATALOG NUMBER: S122DIP-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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1751.1	1744.5	1740.6	1743.2	1735.3	1715.7	1715.7	1722.2	1714.3	1706.5	1694.7
5°	1799.6	1786.5	1778.6	1777.3	1758.9	1727.5	1720.9	1714.3	1697.3	1678.9	1659.3
7.5°	1846.8	1823.2	1810.1	1800.9	1774.7	1734.0	1717.0	1702.5	1675.0	1647.4	1622.5
10°	1886.2	1852.1	1836.3	1821.9	1787.8	1736.6	1709.1	1682.9	1647.4	1612.0	1580.6
12.5°	1917.7	1878.3	1858.6	1837.6	1795.7	1728.8	1694.7	1652.7	1617.3	1570.1	1538.6
15°	1970.1	1888.8	1870.4	1850.8	1807.5	1715.7	1673.7	1626.5	1577.9	1515.0	1480.9
17.5°	2012.1	1903.2	1901.9	1859.9	1803.5	1710.4	1646.1	1584.5	1532.0	1469.1	1415.3
20°	2037.0	1925.5	1904.5	1861.2	1790.4	1675.0	1608.1	1539.9	1483.5	1407.4	1353.6
22.5°	2058.0	1957.0	1901.9	1849.4	1762.9	1663.2	1564.8	1500.5	1423.2	1340.5	1289.4
25°	2065.9	1963.6	1905.8	1845.5	1743.2	1629.1	1517.6	1448.1	1361.5	1286.7	1217.2
27.5°	2067.2	1962.2	1891.4	1828.5	1715.7	1584.5	1470.4	1396.9	1301.2	1214.6	1145.1
30°	2054.1	1947.8	1883.5	1815.3	1689.4	1543.8	1412.7	1331.3	1229.0	1142.5	1070.3
32.5°	2014.7	1919.0	1866.5	1791.7	1655.3	1487.4	1357.6	1267.1	1159.5	1074.3	1004.7
35°	1949.1	1883.5	1825.8	1756.3	1610.7	1435.0	1302.5	1196.2	1087.4	1006.0	940.5
37.5°	1867.8	1832.4	1778.6	1710.4	1559.6	1387.7	1240.8	1122.8	1013.9	935.2	870.9
40°	1757.6	1766.8	1714.3	1652.7	1499.2	1323.5	1160.8	1048.0	945.7	872.3	809.3
42.5°	1638.3	1676.3	1646.1	1587.1	1432.3	1252.6	1101.8	977.2	877.5	801.4	749.0
45°	1509.7	1575.3	1556.9	1513.7	1362.8	1177.9	1017.9	897.2	809.3	735.8	689.9
47.5°	1369.4	1462.5	1462.5	1431.0	1285.4	1103.1	945.7	822.4	735.8	683.4	638.8
50°	1226.4	1331.3	1348.4	1327.4	1198.9	1017.9	857.8	746.3	671.6	620.4	587.6
52.5°	1076.9	1198.9	1230.3	1219.8	1107.0	936.5	785.7	676.8	608.6	564.0	535.2
55°	933.9	1075.6	1109.7	1113.6	1008.7	847.3	705.7	609.9	544.3	514.2	489.3
57.5°	798.8	935.2	973.3	979.8	909.0	766.0	630.9	547.0	487.9	463.0	443.3
60°	683.4	797.5	847.3	861.8	800.1	671.6	561.4	480.1	435.5	411.9	393.5
62.5°	588.9	680.8	733.2	737.2	709.6	588.9	489.3	421.0	383.0	362.0	352.8
65°	497.1	579.8	611.2	627.0	604.7	510.2	422.4	366.0	335.8	317.4	308.2
67.5°	423.7	476.1	502.4	523.4	501.1	430.2	359.4	313.5	291.2	272.8	267.6
70°	347.6	390.9	410.6	431.5	411.9	358.1	306.9	265.0	245.3	230.9	224.3
72.5°	278.1	312.2	330.5	343.7	331.9	287.3	245.3	216.4	202.0	191.5	187.6
75°	220.4	244.0	254.5	263.6	258.4	224.3	198.1	174.5	161.3	152.2	149.5
77.5°	167.9	184.9	196.7	199.4	192.8	170.5	148.2	133.8	123.3	118.0	115.4
80°	119.4	129.9	136.4	140.3	133.8	124.6	108.9	98.4	89.2	82.6	81.3
82.5°	80.0	85.3	90.5	89.2	86.6	78.7	69.5	64.3	60.3	55.1	55.1
85°	45.9	47.2	49.8	51.2	49.8	44.6	39.3	36.7	34.1	30.2	30.2
87.5°	19.7	21.0	21.0	22.3	19.7	19.7	17.1	14.4	14.4	13.1	11.8
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: P1008252

CATALOG NUMBER: S122DIP-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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1688.1	1694.7	1693.4	1680.2	1665.8	1654.0	1631.7	1634.3	1626.5	1627.8	1635.6
5°	1646.1	1646.1	1640.9	1622.5	1598.9	1585.8	1560.9	1554.3	1538.6	1537.3	1536.0
7.5°	1601.5	1595.0	1588.4	1562.2	1533.3	1512.3	1478.2	1470.4	1454.6	1444.1	1438.9
10°	1549.1	1539.9	1526.8	1496.6	1461.2	1435.0	1399.5	1389.1	1358.9	1345.8	1337.9
12.5°	1491.4	1486.1	1465.1	1440.2	1382.5	1353.6	1302.5	1313.0	1282.8	1256.6	1252.6
15°	1433.6	1414.0	1402.2	1361.5	1292.0	1278.9	1238.2	1217.2	1189.7	1168.7	1168.7
17.5°	1377.2	1347.1	1320.8	1277.6	1226.4	1189.7	1159.5	1149.0	1114.9	1093.9	1090.0
20°	1302.5	1268.4	1261.8	1200.2	1164.8	1124.1	1095.2	1069.0	1044.1	1034.9	1028.3
22.5°	1231.7	1192.3	1181.8	1129.3	1093.9	1053.3	1024.4	1006.0	987.7	981.1	969.3
25°	1155.6	1132.0	1116.2	1059.8	1020.5	982.4	962.8	949.6	932.6	931.3	923.4
27.5°	1082.1	1059.8	1044.1	990.3	961.4	926.0	910.3	895.9	886.7	882.7	878.8
30°	1019.2	994.2	975.9	936.5	901.1	872.3	859.1	850.0	844.7	838.2	836.8
32.5°	949.6	935.2	910.3	880.1	852.6	825.0	817.2	810.6	802.7	800.1	798.8
35°	890.6	870.9	855.2	821.1	809.3	785.7	776.5	771.3	760.8	758.1	755.5
37.5°	832.9	814.5	797.5	776.5	754.2	741.1	735.8	728.0	722.7	724.0	721.4
40°	775.2	760.8	747.6	725.3	712.2	705.7	695.2	687.3	684.7	686.0	684.7
42.5°	718.8	705.7	697.8	680.8	667.6	661.1	654.5	646.6	650.6	650.6	654.5
45°	667.6	655.8	650.6	637.5	629.6	619.1	612.5	611.2	616.5	615.2	615.2
47.5°	615.2	611.2	604.7	592.9	582.4	575.8	574.5	574.5	579.8	582.4	581.1
50°	574.5	566.6	558.8	549.6	541.7	539.1	535.2	537.8	543.0	543.0	545.7
52.5°	523.4	518.1	515.5	507.6	502.4	502.4	502.4	503.7	507.6	511.5	510.2
55°	478.8	474.8	472.2	468.3	461.7	463.0	461.7	464.3	468.3	472.2	474.8
57.5°	431.5	430.2	427.6	421.0	421.0	419.7	423.7	425.0	431.5	434.2	438.1
60°	389.6	385.6	385.6	380.4	380.4	380.4	384.3	388.3	393.5	394.8	397.4
62.5°	345.0	345.0	343.7	339.7	339.7	343.7	345.0	350.2	352.8	352.8	356.8
65°	303.0	301.7	300.4	301.7	303.0	303.0	306.9	309.6	312.2	313.5	314.8
67.5°	261.0	259.7	262.3	261.0	263.6	268.9	267.6	271.5	275.4	275.4	276.8
70°	221.7	224.3	223.0	225.6	224.3	226.9	230.9	232.2	232.2	233.5	237.4
72.5°	184.9	184.9	184.9	183.6	184.9	187.6	190.2	191.5	194.1	195.4	199.4
75°	149.5	149.5	146.9	149.5	149.5	152.2	154.8	154.8	154.8	157.4	161.3
77.5°	112.8	114.1	112.8	115.4	115.4	116.7	119.4	118.0	120.7	122.0	123.3
80°	82.6	81.3	81.3	81.3	82.6	82.6	85.3	86.6	86.6	90.5	87.9
82.5°	52.5	53.8	52.5	53.8	53.8	55.1	53.8	55.1	56.4	59.0	57.7
85°	30.2	28.9	28.9	30.2	28.9	28.9	30.2	28.9	30.2	28.9	30.2
87.5°	11.8	10.5	10.5	10.5	10.5	9.2	9.2	7.9	7.9	7.9	6.6
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: P1008252

CATALOG NUMBER: S122DIP-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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1626.5	1630.4	1621.2	1618.6	1621.2	1612.0	1614.7	1617.3	1617.3	1621.2	1623.8
5°	1532.0	1526.8	1517.6	1515.0	1512.3	1516.3	1513.7	1517.6	1518.9	1528.1	1529.4
7.5°	1438.9	1431.0	1423.2	1415.3	1412.7	1406.1	1412.7	1412.7	1421.8	1419.2	1425.8
10°	1328.7	1327.4	1316.9	1313.0	1307.7	1297.2	1311.7	1307.7	1314.3	1326.1	1328.7
12.5°	1247.4	1233.0	1239.5	1221.2	1227.7	1217.2	1218.5	1218.5	1229.0	1230.3	1227.7
15°	1170.0	1158.2	1141.1	1133.3	1129.3	1124.1	1141.1	1142.5	1134.6	1153.0	1146.4
17.5°	1091.3	1091.3	1075.6	1071.6	1061.1	1066.4	1063.8	1065.1	1062.4	1075.6	1082.1
20°	1023.1	1016.5	1011.3	1012.6	999.5	996.9	994.2	996.9	1006.0	1015.2	1017.9
22.5°	968.0	964.1	951.0	953.6	943.1	947.0	944.4	951.0	952.3	952.3	961.4
25°	915.5	910.3	911.6	906.4	902.4	902.4	898.5	902.4	907.7	910.3	911.6
27.5°	876.2	872.3	865.7	861.8	864.4	857.8	863.1	867.0	867.0	864.4	867.0
30°	829.0	831.6	831.6	818.5	823.7	821.1	825.0	827.7	827.7	829.0	826.3
32.5°	797.5	789.6	788.3	787.0	787.0	781.8	781.8	785.7	787.0	788.3	792.2
35°	755.5	755.5	749.0	752.9	747.6	749.0	747.6	749.0	751.6	747.6	751.6
37.5°	717.5	718.8	716.2	718.8	720.1	717.5	714.9	720.1	717.5	717.5	714.9
40°	684.7	683.4	684.7	684.7	684.7	686.0	683.4	683.4	683.4	680.8	678.1
42.5°	657.1	649.3	651.9	653.2	649.3	649.3	650.6	649.3	653.2	645.3	645.3
45°	617.8	615.2	616.5	616.5	619.1	615.2	617.8	619.1	615.2	613.9	611.2
47.5°	582.4	585.0	582.4	585.0	585.0	587.6	582.4	583.7	585.0	579.8	575.8
50°	547.0	547.0	550.9	549.6	550.9	548.3	548.3	547.0	548.3	545.7	541.7
52.5°	514.2	510.2	516.8	515.5	514.2	512.9	511.5	512.9	510.2	507.6	507.6
55°	473.5	473.5	477.4	478.8	478.8	476.1	473.5	474.8	473.5	472.2	470.9
57.5°	440.7	435.5	438.1	439.4	439.4	435.5	438.1	435.5	435.5	436.8	432.8
60°	398.7	398.7	396.1	400.1	400.1	397.4	397.4	398.7	396.1	394.8	393.5
62.5°	354.1	355.5	359.4	360.7	362.0	359.4	356.8	358.1	358.1	354.1	355.5
65°	316.1	318.7	324.0	322.7	320.0	321.4	318.7	320.0	316.1	317.4	313.5
67.5°	279.4	278.1	279.4	279.4	282.0	280.7	278.1	278.1	276.8	280.7	276.8
70°	240.0	240.0	240.0	240.0	241.3	242.7	240.0	237.4	238.7	236.1	234.8
72.5°	199.4	200.7	199.4	202.0	198.1	200.7	200.7	199.4	198.1	198.1	198.1
75°	161.3	164.0	160.0	161.3	160.0	162.6	161.3	161.3	158.7	157.4	158.7
77.5°	123.3	124.6	122.0	123.3	122.0	123.3	123.3	122.0	122.0	122.0	122.0
80°	87.9	89.2	87.9	86.6	85.3	87.9	85.3	86.6	87.9	86.6	89.2
82.5°	56.4	56.4	55.1	56.4	53.8	53.8	55.1	55.1	53.8	56.4	53.8
85°	27.5	27.5	30.2	27.5	26.2	26.2	26.2	27.5	26.2	28.9	27.5
87.5°	6.6	5.2	6.6	6.6	5.2	5.2	6.6	5.2	6.6	7.9	5.2
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: P1008252

CATALOG NUMBER: S122DIP-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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5	1706.5
2.5°	1619.9	1630.4	1626.5	1612.0	1629.1	1629.1	1640.9	1640.9	1655.3	1660.6	1668.4
5°	1528.1	1536.0	1542.5	1536.0	1547.8	1566.1	1576.6	1585.8	1605.5	1613.3	1625.2
7.5°	1429.7	1444.1	1450.7	1450.7	1470.4	1491.4	1512.3	1525.5	1553.0	1563.5	1575.3
10°	1334.0	1351.0	1364.1	1362.8	1395.6	1408.7	1435.0	1465.1	1492.7	1508.4	1525.5
12.5°	1233.0	1242.1	1260.5	1286.7	1294.6	1318.2	1348.4	1386.4	1436.3	1450.7	1475.6
15°	1149.0	1173.9	1188.4	1200.2	1218.5	1240.8	1273.6	1310.4	1360.2	1391.7	1417.9
17.5°	1078.2	1111.0	1120.2	1117.5	1141.1	1175.2	1213.3	1240.8	1285.4	1323.5	1348.4
20°	1020.5	1033.6	1049.3	1055.9	1074.3	1111.0	1147.7	1179.2	1215.9	1246.1	1274.9
22.5°	962.8	973.3	986.4	998.2	1012.6	1033.6	1069.0	1108.4	1143.8	1172.6	1205.4
25°	915.5	922.1	933.9	943.1	958.8	973.3	998.2	1041.5	1083.4	1100.5	1129.3
27.5°	869.6	874.9	882.7	893.2	901.1	915.5	937.8	973.3	1016.5	1033.6	1072.9
30°	829.0	832.9	840.8	846.0	850.0	867.0	884.1	911.6	944.4	968.0	996.9
32.5°	790.9	794.9	802.7	804.0	809.3	818.5	834.2	859.1	888.0	907.7	932.6
35°	749.0	751.6	759.5	762.1	766.0	773.9	785.7	804.0	830.3	844.7	867.0
37.5°	716.2	714.9	720.1	724.0	729.3	733.2	737.2	755.5	775.2	788.3	805.4
40°	680.8	678.1	679.4	684.7	687.3	692.6	692.6	710.9	724.0	734.5	747.6
42.5°	645.3	644.0	641.4	644.0	646.6	648.0	649.3	662.4	675.5	684.7	699.1
45°	609.9	608.6	606.0	607.3	607.3	609.9	613.9	619.1	628.3	636.2	644.0
47.5°	577.1	574.5	570.6	569.3	571.9	571.9	571.9	577.1	586.3	588.9	596.8
50°	543.0	539.1	533.8	531.2	531.2	529.9	532.5	533.8	541.7	544.3	550.9
52.5°	506.3	503.7	498.4	493.2	494.5	491.9	493.2	494.5	497.1	501.1	505.0
55°	469.6	464.3	460.4	459.1	455.1	455.1	451.2	456.5	455.1	456.5	461.7
57.5°	434.2	428.9	422.4	419.7	415.8	414.5	411.9	410.6	411.9	415.8	419.7
60°	392.2	389.6	385.6	381.7	379.1	375.1	372.5	372.5	371.2	371.2	372.5
62.5°	351.5	350.2	345.0	343.7	341.0	338.4	334.5	331.9	331.9	334.5	335.8
65°	312.2	310.9	306.9	305.6	299.1	296.4	295.1	293.8	291.2	291.2	291.2
67.5°	275.4	271.5	271.5	265.0	259.7	257.1	254.5	253.2	253.2	253.2	254.5
70°	234.8	234.8	230.9	226.9	221.7	223.0	219.0	215.1	215.1	212.5	213.8
72.5°	195.4	194.1	190.2	188.9	184.9	181.0	178.4	181.0	177.1	175.8	177.1
75°	157.4	156.1	153.5	150.8	152.2	148.2	144.3	143.0	143.0	140.3	140.3
77.5°	120.7	123.3	118.0	116.7	114.1	111.5	110.2	108.9	108.9	108.9	111.5
80°	83.9	85.3	85.3	82.6	83.9	80.0	80.0	80.0	76.1	77.4	78.7
82.5°	53.8	53.8	52.5	53.8	52.5	52.5	51.2	51.2	49.8	49.8	51.2
85°	30.2	28.9	27.5	30.2	28.9	28.9	27.5	27.5	27.5	27.5	27.5
87.5°	6.6	7.9	7.9	7.9	7.9	9.2	9.2	9.2	10.5	10.5	10.5
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

TEST NUMBER: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

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: P1008252

CATALOG NUMBER: S122DIP-B865D530UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1706.5	1706.5	1706.5	1706.5
2.5°	1675.0	1675.0	1694.7	1715.7
5°	1638.3	1647.4	1678.9	1707.8
7.5°	1602.9	1618.6	1657.9	1694.7
10°	1559.6	1580.6	1629.1	1672.4
12.5°	1517.6	1537.3	1593.7	1642.2
15°	1458.6	1483.5	1543.8	1604.2
17.5°	1399.5	1424.5	1497.9	1568.7
20°	1330.0	1362.8	1445.5	1539.9
22.5°	1265.8	1306.4	1398.2	1474.3
25°	1194.9	1257.9	1343.1	1441.5
27.5°	1132.0	1194.9	1281.5	1381.2
30°	1061.1	1125.4	1214.6	1306.4
32.5°	992.9	1052.0	1138.5	1251.3
35°	922.1	978.5	1062.4	1176.6
37.5°	857.8	912.9	1004.7	1109.7
40°	794.9	852.6	931.3	1036.2
42.5°	735.8	787.0	857.8	962.8
45°	682.1	718.8	784.4	882.7
47.5°	625.7	658.5	718.8	817.2
50°	573.2	600.7	653.2	745.0
52.5°	522.0	545.7	594.2	667.6
55°	476.1	498.4	533.8	606.0
57.5°	428.9	446.0	480.1	537.8
60°	383.0	398.7	426.3	473.5
62.5°	337.1	350.2	376.4	414.5
65°	296.4	306.9	326.6	359.4
67.5°	257.1	263.6	279.4	305.6
70°	219.0	224.3	237.4	258.4
72.5°	178.4	183.6	198.1	212.5
75°	144.3	145.6	156.1	167.9
77.5°	112.8	111.5	119.4	128.5
80°	77.4	81.3	87.9	91.8
82.5°	52.5	53.8	56.4	59.0
85°	28.9	30.2	30.2	34.1
87.5°	11.8	13.1	13.1	14.4
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: P1008252

CATALOG NUMBER: S122DIP-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)