

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: P1007937

Luminaire Tested: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007937
REPORT IS A COMBINATION OF REPORTS P983590 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB2750-4F0-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

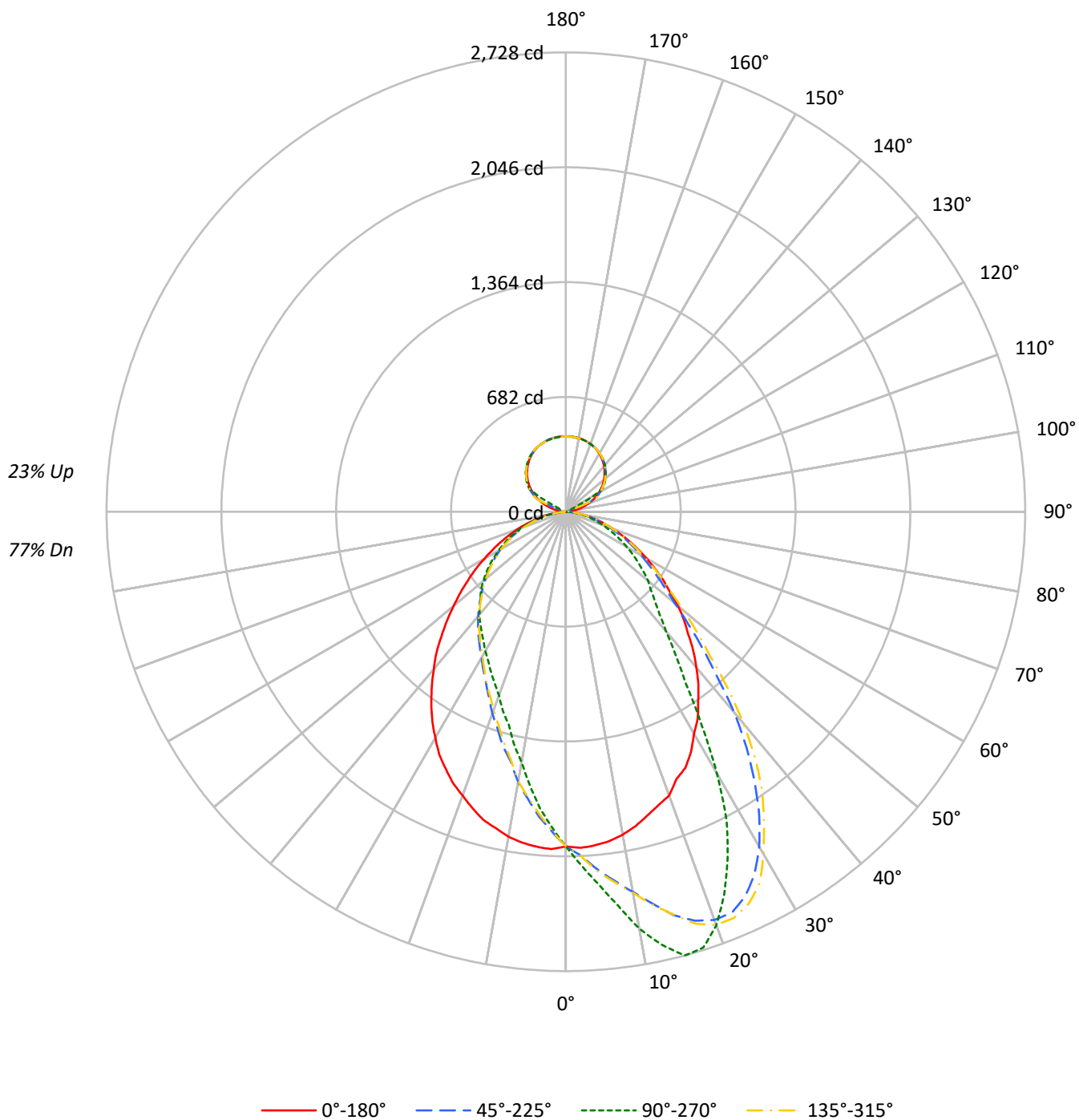
Lumens per Lamp: N/A
Luminaire Lumens: 5695.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.09 / 1.23
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	105	100	97	93	100	96	93	90	88	85	83	80	78	76	73	71	70
2	96	89	83	77	91	85	79	75	78	73	70	71	68	65	65	62	60
3	88	79	71	66	84	75	69	63	69	64	59	64	59	56	58	55	52
4	81	70	62	56	77	67	60	55	62	56	51	57	52	48	53	49	45
5	75	63	55	49	71	61	53	48	56	50	45	52	47	43	48	44	40
6	69	57	49	43	66	55	47	42	51	45	40	47	42	38	44	39	36
7	64	52	44	38	61	50	43	37	47	40	36	43	38	34	40	36	32
8	60	48	40	34	57	46	39	34	43	37	32	40	34	31	37	32	29
9	56	44	36	31	54	42	35	30	39	33	29	37	32	28	34	30	26
10	53	40	33	28	50	39	32	28	37	31	26	34	29	25	32	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	31453	31453	31453	31453
5°	31529	33537	31650	26682
10°	31163	36611	31358	21997
15°	30407	38616	30830	18529
20°	29933	36257	29933	16106
25°	28978	31149	29111	14402
30°	27409	24486	27932	13045
35°	26018	16932	26453	11936
40°	24420	12783	24698	11051
45°	22449	10505	22816	10096
50°	20745	9220	20781	9242
55°	18802	7857	18924	8315
60°	16732	6563	16963	7257
65°	14877	5338	15148	6198
70°	13031	4187	13360	4999
75°	10936	3039	11361	3625
80°	8535	1926	9141	2151
85°	5608	969	6046	717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 157.5°

Vertical Angle: 45°

Luminance: 32514 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.3	3.3
10°-20°	550.9	9.7
20°-30°	799.5	14.0
30°-40°	842.8	14.8
40°-50°	745.8	13.1
50°-60°	595.5	10.5
60°-70°	404.5	7.1
70°-80°	207.0	3.6
80°-90°	49.7	0.9
90°-100°	14.7	0.3
100°-110°	54.9	1.0
110°-120°	145.7	2.6
120°-130°	241.7	4.2
130°-140°	256.7	4.5
140°-150°	238.6	4.2
150°-160°	191.8	3.4
160°-170°	123.6	2.2
170°-180°	42.5	0.7
0°-30°	1539.6	27.0
0°-40°	2382.4	41.8
0°-60°	3723.7	65.4
0°-90°	4384.8	77.0
90°-120°	215.4	3.8
90°-150°	952.3	16.7
90°-180°	1310.0	23.0
0°-180°	5695.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1987	1987	1987	1987	1987	
5°	1989	2219	1996	1766	1989	189
15°	1868	2728	1894	1309	1868	528
25°	1678	2273	1686	1051	1678	767
35°	1370	1237	1393	872	1370	857
45°	1028	745	1045	716	1028	797
55°	706	524	710	554	706	630
65°	418	322	426	374	418	416
75°	196	159	203	189	196	210
85°	40	41	43	30	40	46
90°	0	9	0	9	0	3
95°	21	14	21	14	21	25
105°	98	25	98	25	98	105
115°	186	26	186	26	186	183
125°	263	276	263	276	263	234
135°	325	336	325	336	325	251
145°	377	383	377	383	377	236
155°	416	416	416	416	416	191
165°	438	437	438	437	438	124
175°	448	445	448	445	448	43
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1997.7	2002.3	2009.9	2011.5	2026.7	2039.0	2052.7	2052.7	2057.3	2055.8	2043.5
5°	1988.6	2002.3	2022.2	2039.0	2066.5	2078.7	2097.0	2110.7	2123.0	2132.1	2130.6
7.5°	1973.3	1997.7	2026.7	2058.8	2095.5	2116.9	2142.8	2167.3	2184.1	2199.3	2210.0
10°	1947.3	1988.6	2028.3	2071.0	2118.4	2147.4	2177.9	2210.0	2236.0	2265.0	2292.5
12.5°	1912.2	1971.8	2020.6	2077.1	2135.2	2167.3	2216.1	2240.6	2291.0	2364.3	2384.1
15°	1867.9	1948.9	1994.7	2066.5	2142.8	2168.8	2236.0	2275.7	2379.6	2425.4	2480.4
17.5°	1826.7	1916.8	1977.9	2060.3	2135.2	2185.6	2251.3	2332.2	2419.3	2484.9	2546.0
20°	1793.1	1880.1	1953.4	2045.1	2139.8	2203.9	2272.6	2370.4	2465.1	2532.3	2579.6
22.5°	1716.7	1828.2	1913.7	2016.1	2130.6	2219.2	2284.9	2391.8	2494.1	2535.3	2576.6
25°	1678.5	1774.7	1874.0	1990.1	2124.5	2229.9	2286.4	2405.5	2495.6	2510.9	2520.1
27.5°	1608.3	1716.7	1832.8	1965.7	2123.0	2211.5	2283.3	2391.8	2463.6	2452.9	2425.4
30°	1521.2	1654.1	1782.4	1925.9	2101.6	2197.8	2265.0	2364.3	2400.9	2346.0	2297.1
32.5°	1457.1	1582.3	1724.3	1890.8	2077.1	2168.8	2234.5	2312.4	2320.0	2220.7	2138.2
35°	1370.0	1509.0	1669.4	1845.0	2035.9	2118.4	2179.5	2226.8	2190.2	2051.2	1953.4
37.5°	1292.1	1429.6	1600.6	1779.3	1979.4	2060.3	2109.2	2116.9	2026.7	1904.6	1761.0
40°	1206.6	1348.6	1527.3	1715.2	1916.8	1987.0	2017.6	1994.7	1864.8	1722.8	1556.3
42.5°	1121.0	1261.6	1454.0	1646.4	1837.4	1896.9	1909.1	1846.5	1687.7	1521.2	1328.8
45°	1027.9	1174.5	1366.9	1560.9	1745.7	1779.3	1780.8	1690.7	1502.9	1328.8	1150.1
47.5°	951.5	1087.4	1278.4	1472.3	1628.1	1651.0	1641.9	1538.0	1333.3	1137.8	982.1
50°	867.5	997.3	1186.7	1377.6	1510.5	1516.6	1493.7	1345.6	1145.5	966.8	843.1
52.5°	777.4	908.8	1082.9	1266.1	1385.3	1376.1	1331.8	1173.0	985.1	837.0	742.3
55°	705.6	821.7	985.1	1163.8	1247.8	1221.8	1173.0	1011.1	862.9	737.7	655.2
57.5°	626.2	728.5	888.9	1044.7	1093.6	1069.1	1020.2	869.0	731.6	636.9	581.9
60°	551.4	644.5	785.0	914.9	953.0	927.1	870.6	734.6	635.4	555.9	514.7
62.5°	482.6	563.6	681.2	800.3	815.6	789.6	740.7	630.8	545.3	482.6	452.1
65°	418.5	494.8	589.5	679.7	693.4	665.9	615.5	536.1	464.3	424.6	395.6
67.5°	355.9	417.0	501.0	566.6	574.3	548.3	507.1	442.9	398.6	355.9	334.5
70°	300.9	346.7	412.4	465.8	468.9	444.4	423.1	365.0	331.4	300.9	284.1
72.5°	247.4	279.5	329.9	369.6	371.1	355.9	336.0	299.4	270.3	249.0	232.2
75°	195.5	223.0	253.5	288.7	287.1	274.9	259.6	236.7	212.3	198.6	190.9
77.5°	149.7	166.5	190.9	213.8	213.8	207.7	198.6	181.8	166.5	152.7	145.1
80°	106.9	117.6	137.5	145.1	148.1	146.6	139.0	126.8	120.7	110.0	106.9
82.5°	68.7	76.4	85.5	93.2	97.7	94.7	93.2	87.1	77.9	74.8	71.8
85°	39.7	42.8	47.3	51.9	53.5	51.9	55.0	50.4	45.8	45.8	44.3
87.5°	16.8	18.3	21.4	21.4	22.9	22.9	21.4	22.9	22.9	21.4	19.9
90°	0.3	1.1	1.9	2.7	3.5	3.9	4.2	4.8	5.3	5.9	6.5
92.5°	8.1	7.8	7.5	7.2	6.9	6.8	6.9	7.1	7.4	7.6	7.8
95°	21.0	18.6	16.2	13.9	11.5	10.3	10.6	11.1	11.6	12.1	12.6
97.5°	37.8	31.9	26.0	20.1	14.2	11.3	11.9	13.0	14.2	15.3	16.5
100°	57.2	47.4	37.5	27.7	17.8	12.9	13.5	14.7	16.0	17.2	18.4
102.5°	78.6	78.4	78.3	78.1	78.0	77.9	71.4	58.3	45.2	32.2	19.1
105°	98.3	100.5	102.6	104.8	106.9	108.0	98.2	78.6	58.9	39.3	19.7
107.5°	121.3	123.1	124.9	126.7	128.5	129.4	117.3	93.1	68.8	44.6	20.4
110°	143.3	144.8	146.3	147.8	149.3	150.1	139.7	118.9	98.2	77.4	56.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	164.0	165.3	166.6	167.9	169.2	169.8	169.2	168.0	166.7	165.5	164.3
115°	185.9	187.1	188.3	189.6	190.8	191.4	192.3	194.1	195.9	197.7	199.5
117.5°	205.0	206.4	207.9	209.3	210.8	211.5	212.1	213.3	214.6	215.8	217.0
120°	226.4	227.5	228.5	229.6	230.7	231.2	231.8	233.1	234.4	235.7	237.0
122.5°	244.5	245.7	246.8	248.0	249.1	249.7	250.4	251.8	253.3	254.7	256.1
125°	262.9	263.8	264.8	265.7	266.6	267.1	267.8	269.2	270.5	271.9	273.3
127.5°	279.7	280.7	281.7	282.8	283.8	284.3	284.8	285.9	287.0	288.0	289.1
130°	295.6	296.7	297.9	299.0	300.1	300.7	301.1	301.9	302.7	303.5	304.3
132.5°	311.7	312.6	313.6	314.5	315.4	315.9	316.3	317.1	317.9	318.7	319.5
135°	325.3	326.5	327.6	328.8	329.9	330.5	330.8	331.5	332.1	332.8	333.4
137.5°	339.6	340.4	341.3	342.1	343.0	343.4	343.8	344.5	345.2	346.0	346.7
140°	353.5	354.1	354.6	355.2	355.7	356.0	356.4	357.2	358.0	358.8	359.6
142.5°	365.1	365.6	366.1	366.6	367.1	367.4	367.9	368.8	369.7	370.7	371.6
145°	377.4	377.3	377.3	377.2	377.1	377.1	377.7	378.9	380.2	381.4	382.6
147.5°	388.1	387.9	387.7	387.4	387.2	387.1	387.7	388.9	390.2	391.4	392.6
150°	398.4	397.9	397.4	396.9	396.4	396.1	396.7	397.8	399.0	400.1	401.3
152.5°	407.1	406.5	406.0	405.4	404.9	404.6	405.1	406.2	407.3	408.3	409.4
155°	415.6	414.9	414.3	413.6	412.9	412.6	413.0	413.9	414.8	415.6	416.5
157.5°	422.3	421.7	421.2	420.6	420.1	419.8	420.1	420.8	421.4	422.1	422.7
160°	428.2	427.8	427.3	426.9	426.4	426.2	426.4	426.9	427.3	427.8	428.2
162.5°	433.3	432.9	432.5	432.0	431.6	431.4	431.6	431.9	432.3	432.6	433.0
165°	437.9	437.5	437.0	436.6	436.1	435.9	436.0	436.2	436.5	436.7	436.9
167.5°	441.4	441.0	440.6	440.1	439.7	439.5	439.6	439.8	440.1	440.3	440.5
170°	444.3	443.9	443.5	443.0	442.6	442.4	442.5	442.6	442.7	442.9	443.0
172.5°	446.3	445.9	445.4	445.0	444.5	444.3	444.4	444.5	444.7	444.8	445.0
175°	447.9	447.4	446.9	446.4	445.9	445.6	445.7	445.8	446.0	446.1	446.3
177.5°	448.5	448.0	447.5	447.0	446.5	446.3	446.3	446.4	446.5	446.5	446.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2064.9	2066.5	2069.5	2084.8	2092.4	2093.9	2087.8	2101.6	2106.2	2101.6	2098.5
5°	2162.7	2171.8	2190.2	2210.0	2208.5	2210.0	2219.2	2228.3	2231.4	2219.2	2223.8
7.5°	2248.2	2266.5	2286.4	2316.9	2316.9	2332.2	2338.3	2346.0	2364.3	2355.1	2352.1
10°	2346.0	2370.4	2407.0	2455.9	2457.4	2472.7	2488.0	2512.4	2520.1	2514.0	2517.0
12.5°	2468.1	2515.5	2518.5	2572.0	2596.4	2599.5	2623.9	2619.3	2634.6	2634.6	2660.6
15°	2521.6	2594.9	2636.1	2688.1	2703.3	2685.0	2704.9	2726.3	2727.8	2727.8	2726.3
17.5°	2617.8	2646.8	2688.1	2715.6	2721.7	2721.7	2723.2	2732.4	2726.3	2714.0	2723.2
20°	2637.7	2649.9	2665.2	2662.1	2665.2	2649.9	2634.6	2619.3	2620.9	2613.2	2636.1
22.5°	2601.0	2598.0	2562.8	2539.9	2539.9	2509.4	2480.4	2466.6	2452.9	2457.4	2465.1
25°	2509.4	2462.0	2419.3	2385.7	2378.0	2329.2	2289.4	2277.2	2254.3	2272.6	2275.7
27.5°	2362.8	2309.3	2240.6	2211.5	2171.8	2152.0	2124.5	2087.8	2040.5	2068.0	2063.4
30°	2205.4	2126.0	2069.5	1999.3	1936.6	1932.0	1880.1	1819.0	1794.6	1794.6	1808.3
32.5°	2029.8	1924.4	1841.9	1742.7	1681.6	1655.6	1593.0	1531.9	1545.6	1499.8	1516.6
35°	1825.1	1686.2	1582.3	1486.1	1440.3	1409.7	1328.8	1295.2	1258.5	1237.1	1276.8
37.5°	1629.6	1469.3	1336.4	1231.0	1214.2	1159.2	1104.2	1082.9	1061.5	1070.6	1069.1
40°	1391.4	1249.3	1130.2	1047.7	1018.7	992.8	956.1	930.1	916.4	924.0	925.6
42.5°	1176.0	1056.9	968.3	910.3	885.8	867.5	849.2	827.8	823.2	823.2	829.3
45°	1009.6	911.8	852.2	804.9	791.1	777.4	763.7	754.5	751.4	745.3	749.9
47.5°	876.7	798.8	762.1	727.0	711.7	708.7	696.5	691.9	685.8	684.2	685.8
50°	765.2	716.3	682.7	662.9	652.2	647.6	641.5	632.3	629.3	636.9	633.8
52.5°	687.3	641.5	623.1	603.3	597.2	591.1	581.9	583.4	581.9	578.9	578.9
55°	609.4	580.4	562.1	546.8	545.3	539.1	531.5	528.4	526.9	523.9	528.4
57.5°	546.8	523.9	507.1	493.3	487.2	487.2	479.6	473.5	473.5	471.9	473.5
60°	484.2	461.2	450.6	436.8	432.2	430.7	426.1	423.1	418.5	418.5	418.5
62.5°	426.1	407.8	395.6	383.4	384.9	377.2	371.1	368.1	368.1	369.6	369.6
65°	371.1	358.9	343.6	333.0	329.9	328.4	325.3	323.8	319.2	322.3	322.3
67.5°	320.7	303.9	294.8	290.2	285.6	284.1	281.0	278.0	276.4	274.9	278.0
70°	270.3	256.6	249.0	245.9	241.3	239.8	238.3	233.7	235.2	236.7	238.3
72.5°	224.5	212.3	210.8	201.6	201.6	201.6	195.5	198.6	197.0	194.0	197.0
75°	177.2	171.1	168.0	163.4	164.9	163.4	161.9	157.3	157.3	158.8	160.4
77.5°	140.5	134.4	132.9	128.3	125.2	128.3	125.2	123.7	123.7	125.2	125.2
80°	103.9	100.8	96.2	96.2	96.2	94.7	94.7	94.7	93.2	91.6	93.2
82.5°	68.7	68.7	67.2	65.7	67.2	64.1	65.7	65.7	65.7	65.7	65.7
85°	44.3	42.8	42.8	41.2	41.2	41.2	42.8	39.7	39.7	41.2	41.2
87.5°	19.9	19.9	19.9	21.4	19.9	19.9	19.9	21.4	19.9	19.9	19.9
90°	6.9	7.2	7.6	7.9	8.1	8.2	8.3	8.4	8.6	8.7	8.6
92.5°	7.9	8.1	8.2	8.3	8.4	8.4	8.5	8.6	8.6	8.7	8.6
95°	13.0	13.3	13.7	14.0	14.2	14.2	14.1	14.0	14.0	13.9	14.0
97.5°	16.7	16.9	17.2	17.4	17.5	17.5	17.6	17.7	17.7	17.8	17.7
100°	19.0	19.6	20.1	20.7	21.0	21.1	21.2	21.4	21.5	21.7	21.5
102.5°	19.9	20.7	21.4	22.2	22.6	22.7	22.9	23.2	23.4	23.6	23.4
105°	20.5	21.3	22.1	22.9	23.3	23.4	23.7	24.0	24.3	24.6	24.3
107.5°	21.2	22.0	22.7	23.5	23.9	24.0	24.3	24.6	24.9	25.2	24.9
110°	49.4	42.2	35.1	27.9	24.3	24.4	24.7	25.0	25.2	25.5	25.2

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	133.3	102.3	71.4	40.4	24.9	25.0	25.2	25.5	25.7	25.9	25.7
115°	166.2	133.0	99.7	66.4	49.8	47.2	42.0	36.9	31.7	26.5	31.7
117.5°	206.7	196.4	186.1	175.8	170.7	161.3	142.5	123.6	104.8	86.0	104.8
120°	237.9	238.7	239.6	240.5	240.9	236.1	226.4	216.7	207.0	197.3	207.0
122.5°	256.5	257.0	257.4	257.9	258.1	258.1	258.2	258.3	258.3	258.4	258.3
125°	273.8	274.3	274.8	275.3	275.5	275.6	275.8	276.1	276.3	276.5	276.3
127.5°	289.8	290.5	291.2	291.9	292.3	292.3	292.4	292.5	292.6	292.7	292.6
130°	305.1	305.9	306.7	307.5	307.9	307.9	307.8	307.7	307.6	307.5	307.6
132.5°	320.1	320.8	321.4	322.1	322.4	322.4	322.3	322.2	322.2	322.1	322.2
135°	334.1	334.8	335.5	336.2	336.6	336.5	336.4	336.3	336.1	336.0	336.1
137.5°	347.4	348.1	348.8	349.5	349.9	349.8	349.6	349.3	349.1	348.9	349.1
140°	360.2	360.9	361.5	362.2	362.5	362.3	362.0	361.6	361.3	360.9	361.3
142.5°	372.2	372.8	373.3	373.9	374.2	374.0	373.6	373.3	372.9	372.5	372.9
145°	383.1	383.6	384.1	384.6	384.8	384.6	384.3	383.9	383.6	383.2	383.6
147.5°	393.0	393.3	393.7	394.0	394.2	394.1	393.8	393.5	393.2	392.9	393.2
150°	401.7	402.2	402.6	403.1	403.3	403.1	402.7	402.4	402.0	401.6	402.0
152.5°	409.8	410.2	410.7	411.1	411.3	411.1	410.6	410.1	409.6	409.1	409.6
155°	416.9	417.4	417.8	418.3	418.5	418.2	417.6	417.1	416.5	415.9	416.5
157.5°	423.2	423.7	424.2	424.7	424.9	424.6	424.0	423.5	422.9	422.3	422.9
160°	428.6	429.0	429.5	429.9	430.1	429.8	429.3	428.8	428.3	427.8	428.3
162.5°	433.5	434.0	434.5	435.0	435.3	435.0	434.3	433.7	433.0	432.4	433.0
165°	437.4	437.9	438.4	438.9	439.2	438.9	438.4	437.9	437.4	436.9	437.4
167.5°	441.0	441.5	442.0	442.5	442.7	442.4	441.7	441.1	440.4	439.8	440.4
170°	443.5	444.0	444.5	445.0	445.3	445.0	444.3	443.7	443.0	442.4	443.0
172.5°	445.5	446.0	446.5	447.0	447.2	446.9	446.2	445.6	444.9	444.3	444.9
175°	446.8	447.3	447.8	448.3	448.5	448.1	447.4	446.7	446.0	445.3	446.0
177.5°	447.1	447.6	448.1	448.6	448.9	448.6	447.9	447.3	446.6	446.0	446.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2106.2	2095.5	2086.3	2087.8	2095.5	2089.4	2074.1	2054.2	2046.6	2037.4	2046.6
5°	2232.9	2223.8	2205.4	2207.0	2202.4	2196.3	2171.8	2141.3	2141.3	2116.9	2113.8
7.5°	2358.2	2344.4	2332.2	2329.2	2312.4	2300.1	2278.7	2236.0	2219.2	2190.2	2173.4
10°	2498.7	2488.0	2474.2	2457.4	2448.3	2426.9	2391.8	2329.2	2298.6	2258.9	2229.9
12.5°	2640.7	2639.2	2608.6	2575.0	2573.5	2539.9	2515.5	2431.5	2390.2	2336.8	2268.1
15°	2730.8	2723.2	2706.4	2689.6	2694.2	2657.5	2602.5	2503.3	2475.8	2411.6	2338.3
17.5°	2729.3	2729.3	2724.7	2721.7	2717.1	2706.4	2675.9	2610.2	2565.9	2484.9	2416.2
20°	2642.2	2662.1	2666.7	2665.2	2680.4	2688.1	2686.5	2645.3	2610.2	2538.4	2468.1
22.5°	2468.1	2514.0	2533.8	2546.0	2578.1	2594.9	2634.6	2619.3	2610.2	2556.7	2497.2
25°	2306.2	2321.5	2381.1	2384.1	2428.4	2469.7	2509.4	2535.3	2568.9	2549.1	2498.7
27.5°	2097.0	2132.1	2174.9	2207.0	2216.1	2300.1	2365.8	2414.7	2491.0	2497.2	2480.4
30°	1860.3	1877.1	1947.3	1990.1	2039.0	2100.1	2194.7	2278.7	2347.5	2410.1	2431.5
32.5°	1571.6	1640.3	1681.6	1733.5	1776.3	1884.7	2000.8	2109.2	2188.6	2294.0	2339.8
35°	1307.4	1360.8	1431.1	1452.5	1530.4	1622.0	1773.2	1912.2	2032.9	2139.8	2232.9
37.5°	1089.0	1131.7	1206.6	1240.2	1286.0	1403.6	1530.4	1703.0	1848.0	1979.4	2095.5
40°	939.3	971.4	1027.9	1038.6	1076.8	1183.7	1286.0	1447.9	1640.3	1817.5	1944.3
42.5°	837.0	852.2	890.4	904.2	928.6	1000.4	1092.0	1244.8	1423.5	1606.7	1785.4
45°	763.7	774.3	797.3	809.5	840.0	872.1	946.9	1069.1	1209.6	1394.4	1586.9
47.5°	698.0	711.7	720.9	728.5	745.3	780.5	829.3	919.4	1053.8	1223.4	1409.7
50°	643.0	647.6	664.4	665.9	676.6	699.5	745.3	800.3	907.2	1044.7	1224.9
52.5°	588.0	592.6	603.3	614.0	618.6	636.9	667.4	713.3	792.7	901.1	1061.5
55°	533.0	539.1	549.8	557.5	562.1	577.3	595.7	639.9	702.6	778.9	910.3
57.5°	478.0	491.8	494.8	499.4	507.1	523.9	540.7	566.6	615.5	685.8	782.0
60°	426.1	430.7	441.4	446.0	453.6	462.8	484.2	504.0	539.1	594.1	681.2
62.5°	372.7	383.4	387.9	392.5	398.6	409.3	423.1	444.4	475.0	519.3	588.0
65°	326.8	328.4	337.5	343.6	349.8	357.4	371.1	391.0	409.3	450.6	501.0
67.5°	282.6	285.6	288.7	294.8	302.4	310.0	322.3	333.0	355.9	383.4	423.1
70°	239.8	239.8	247.4	252.0	250.5	259.6	268.8	281.0	297.8	323.8	355.9
72.5°	201.6	200.1	206.2	207.7	210.8	216.9	223.0	235.2	244.4	264.2	288.7
75°	160.4	163.4	166.5	166.5	171.1	175.6	181.8	187.9	198.6	210.8	229.1
77.5°	126.8	126.8	129.8	131.3	135.9	134.4	140.5	146.6	154.3	164.9	178.7
80°	93.2	96.2	96.2	96.2	97.7	99.3	105.4	110.0	114.5	122.2	128.3
82.5°	65.7	65.7	68.7	68.7	68.7	71.8	71.8	73.3	76.4	80.9	85.5
85°	41.2	41.2	41.2	42.8	41.2	42.8	45.8	44.3	45.8	48.9	48.9
87.5°	19.9	19.9	19.9	19.9	19.9	21.4	19.9	21.4	22.9	22.9	22.9
90°	8.4	8.3	8.2	8.1	7.9	7.6	7.2	6.9	6.5	5.9	5.3
92.5°	8.6	8.5	8.4	8.4	8.3	8.2	8.1	7.9	7.8	7.6	7.4
95°	14.0	14.1	14.2	14.2	14.0	13.7	13.3	13.0	12.6	12.1	11.6
97.5°	17.7	17.6	17.5	17.5	17.4	17.2	16.9	16.7	16.5	15.3	14.2
100°	21.4	21.2	21.1	21.0	20.7	20.1	19.6	19.0	18.4	17.2	16.0
102.5°	23.2	22.9	22.7	22.6	22.2	21.4	20.7	19.9	19.1	32.2	45.2
105°	24.0	23.7	23.4	23.3	22.9	22.1	21.3	20.5	19.7	39.3	58.9
107.5°	24.6	24.3	24.0	23.9	23.5	22.7	22.0	21.2	20.4	44.6	68.8
110°	25.0	24.7	24.4	24.3	27.9	35.1	42.2	49.4	56.6	77.4	98.2

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	25.5	25.2	25.0	24.9	40.4	71.4	102.3	133.3	164.3	165.5	166.7
115°	36.9	42.0	47.2	49.8	66.4	99.7	133.0	166.2	199.5	197.7	195.9
117.5°	123.6	142.5	161.3	170.7	175.8	186.1	196.4	206.7	217.0	215.8	214.6
120°	216.7	226.4	236.1	240.9	240.5	239.6	238.7	237.9	237.0	235.7	234.4
122.5°	258.3	258.2	258.1	258.1	257.9	257.4	257.0	256.5	256.1	254.7	253.3
125°	276.1	275.8	275.6	275.5	275.3	274.8	274.3	273.8	273.3	271.9	270.5
127.5°	292.5	292.4	292.3	292.3	291.9	291.2	290.5	289.8	289.1	288.0	287.0
130°	307.7	307.8	307.9	307.9	307.5	306.7	305.9	305.1	304.3	303.5	302.7
132.5°	322.2	322.3	322.4	322.4	322.1	321.4	320.8	320.1	319.5	318.7	317.9
135°	336.3	336.4	336.5	336.6	336.2	335.5	334.8	334.1	333.4	332.8	332.1
137.5°	349.3	349.6	349.8	349.9	349.5	348.8	348.1	347.4	346.7	346.0	345.2
140°	361.6	362.0	362.3	362.5	362.2	361.5	360.9	360.2	359.6	358.8	358.0
142.5°	373.3	373.6	374.0	374.2	373.9	373.3	372.8	372.2	371.6	370.7	369.7
145°	383.9	384.3	384.6	384.8	384.6	384.1	383.6	383.1	382.6	381.4	380.2
147.5°	393.5	393.8	394.1	394.2	394.0	393.7	393.3	393.0	392.6	391.4	390.2
150°	402.4	402.7	403.1	403.3	403.1	402.6	402.2	401.7	401.3	400.1	399.0
152.5°	410.1	410.6	411.1	411.3	411.1	410.7	410.2	409.8	409.4	408.3	407.3
155°	417.1	417.6	418.2	418.5	418.3	417.8	417.4	416.9	416.5	415.6	414.8
157.5°	423.5	424.0	424.6	424.9	424.7	424.2	423.7	423.2	422.7	422.1	421.4
160°	428.8	429.3	429.8	430.1	429.9	429.5	429.0	428.6	428.2	427.8	427.3
162.5°	433.7	434.3	435.0	435.3	435.0	434.5	434.0	433.5	433.0	432.6	432.3
165°	437.9	438.4	438.9	439.2	438.9	438.4	437.9	437.4	436.9	436.7	436.5
167.5°	441.1	441.7	442.4	442.7	442.5	442.0	441.5	441.0	440.5	440.3	440.1
170°	443.7	444.3	445.0	445.3	445.0	444.5	444.0	443.5	443.0	442.9	442.7
172.5°	445.6	446.2	446.9	447.2	447.0	446.5	446.0	445.5	445.0	444.8	444.7
175°	446.7	447.4	448.1	448.5	448.3	447.8	447.3	446.8	446.3	446.1	446.0
177.5°	447.3	447.9	448.6	448.9	448.6	448.1	447.6	447.1	446.6	446.5	446.5
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	2039.0	2031.3	2026.7	2029.8	2020.6	1997.7	1997.7	2005.4	1996.2	1987.0	1973.3
5°	2095.5	2080.2	2071.0	2069.5	2048.1	2011.5	2003.8	1996.2	1976.3	1955.0	1932.0
7.5°	2150.5	2123.0	2107.7	2097.0	2066.5	2019.1	1999.3	1982.5	1950.4	1918.3	1889.3
10°	2196.3	2156.6	2138.2	2121.4	2081.7	2022.2	1990.1	1959.5	1918.3	1877.1	1840.4
12.5°	2232.9	2187.1	2164.2	2139.8	2090.9	2013.0	1973.3	1924.4	1883.2	1828.2	1791.5
15°	2294.0	2199.3	2177.9	2155.0	2104.6	1997.7	1948.9	1893.9	1837.4	1764.0	1724.3
17.5°	2342.9	2216.1	2214.6	2165.7	2100.1	1991.6	1916.8	1845.0	1783.9	1710.6	1648.0
20°	2371.9	2242.1	2217.7	2167.3	2084.8	1950.4	1872.5	1793.1	1727.4	1638.8	1576.2
22.5°	2396.4	2278.7	2214.6	2153.5	2052.7	1936.6	1822.1	1747.2	1657.1	1560.9	1501.3
25°	2405.5	2286.4	2219.2	2148.9	2029.8	1896.9	1767.1	1686.2	1585.3	1498.3	1417.3
27.5°	2407.0	2284.9	2202.4	2129.1	1997.7	1845.0	1712.1	1626.6	1515.1	1414.3	1333.3
30°	2391.8	2268.1	2193.2	2113.8	1967.2	1797.6	1644.9	1550.2	1431.1	1330.3	1246.3
32.5°	2346.0	2234.5	2173.4	2086.3	1927.5	1732.0	1580.8	1475.4	1350.1	1250.9	1169.9
35°	2269.6	2193.2	2126.0	2045.1	1875.5	1670.9	1516.6	1392.9	1266.1	1171.4	1095.1
37.5°	2174.9	2133.7	2071.0	1991.6	1816.0	1615.9	1444.8	1307.4	1180.6	1089.0	1014.1
40°	2046.6	2057.3	1996.2	1924.4	1745.7	1541.1	1351.7	1220.3	1101.2	1015.7	942.4
42.5°	1907.6	1951.9	1916.8	1848.0	1667.8	1458.6	1282.9	1137.8	1021.8	933.2	872.1
45°	1757.9	1834.3	1812.9	1762.5	1586.9	1371.5	1185.2	1044.7	942.4	856.8	803.4
47.5°	1594.5	1703.0	1703.0	1666.3	1496.8	1284.5	1101.2	957.6	856.8	795.7	743.8
50°	1428.0	1550.2	1570.1	1545.6	1396.0	1185.2	998.9	869.0	782.0	722.4	684.2
52.5°	1253.9	1396.0	1432.6	1420.4	1289.1	1090.5	914.9	788.1	708.7	656.7	623.1
55°	1087.4	1252.4	1292.1	1296.7	1174.5	986.6	821.7	710.2	633.8	598.7	569.7
57.5°	930.1	1089.0	1133.3	1140.9	1058.4	892.0	734.6	636.9	568.2	539.1	516.2
60°	795.7	928.6	986.6	1003.4	931.7	782.0	653.7	559.0	507.1	479.6	458.2
62.5°	685.8	792.7	853.8	858.3	826.3	685.8	569.7	490.3	446.0	421.5	410.8
65°	578.9	675.1	711.7	730.1	704.1	594.1	491.8	426.1	391.0	369.6	358.9
67.5°	493.3	554.4	585.0	609.4	583.4	501.0	418.5	365.0	339.1	317.7	311.6
70°	404.7	455.1	478.0	502.5	479.6	417.0	357.4	308.5	285.6	268.8	261.2
72.5°	323.8	363.5	384.9	400.2	386.4	334.5	285.6	252.0	235.2	223.0	218.4
75°	256.6	284.1	296.3	307.0	300.9	261.2	230.6	203.1	187.9	177.2	174.1
77.5°	195.5	215.4	229.1	232.2	224.5	198.6	172.6	155.8	143.6	137.5	134.4
80°	139.0	151.2	158.8	163.4	155.8	145.1	126.8	114.5	103.9	96.2	94.7
82.5°	93.2	99.3	105.4	103.9	100.8	91.6	80.9	74.8	70.3	64.1	64.1
85°	53.5	55.0	58.0	59.6	58.0	51.9	45.8	42.8	39.7	35.1	35.1
87.5°	22.9	24.4	24.4	26.0	22.9	22.9	19.9	16.8	16.8	15.3	13.7
90°	4.8	4.2	3.9	3.5	2.7	1.9	1.1	0.3	1.1	1.9	2.7
92.5°	7.1	6.9	6.8	6.9	7.2	7.5	7.8	8.1	7.8	7.5	7.2
95°	11.1	10.6	10.3	11.5	13.9	16.2	18.6	21.0	18.6	16.2	13.9
97.5°	13.0	11.9	11.3	14.2	20.1	26.0	31.9	37.8	31.9	26.0	20.1
100°	14.7	13.5	12.9	17.8	27.7	37.5	47.4	57.2	47.4	37.5	27.7
102.5°	58.3	71.4	77.9	78.0	78.1	78.3	78.4	78.6	78.4	78.3	78.1
105°	78.6	98.2	108.0	106.9	104.8	102.6	100.5	98.3	100.5	102.6	104.8
107.5°	93.1	117.3	129.4	128.5	126.7	124.9	123.1	121.3	123.1	124.9	126.7
110°	118.9	139.7	150.1	149.3	147.8	146.3	144.8	143.3	144.8	146.3	147.8

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	168.0	169.2	169.8	169.2	167.9	166.6	165.3	164.0	165.3	166.6	167.9
115°	194.1	192.3	191.4	190.8	189.6	188.3	187.1	185.9	187.1	188.3	189.6
117.5°	213.3	212.1	211.5	210.8	209.3	207.9	206.4	205.0	206.4	207.9	209.3
120°	233.1	231.8	231.2	230.7	229.6	228.5	227.5	226.4	227.5	228.5	229.6
122.5°	251.8	250.4	249.7	249.1	248.0	246.8	245.7	244.5	245.7	246.8	248.0
125°	269.2	267.8	267.1	266.6	265.7	264.8	263.8	262.9	263.8	264.8	265.7
127.5°	285.9	284.8	284.3	283.8	282.8	281.7	280.7	279.7	280.7	281.7	282.8
130°	301.9	301.1	300.7	300.1	299.0	297.9	296.7	295.6	296.7	297.9	299.0
132.5°	317.1	316.3	315.9	315.4	314.5	313.6	312.6	311.7	312.6	313.6	314.5
135°	331.5	330.8	330.5	329.9	328.8	327.6	326.5	325.3	326.5	327.6	328.8
137.5°	344.5	343.8	343.4	343.0	342.1	341.3	340.4	339.6	340.4	341.3	342.1
140°	357.2	356.4	356.0	355.7	355.2	354.6	354.1	353.5	354.1	354.6	355.2
142.5°	368.8	367.9	367.4	367.1	366.6	366.1	365.6	365.1	365.6	366.1	366.6
145°	378.9	377.7	377.1	377.1	377.2	377.3	377.3	377.4	377.3	377.3	377.2
147.5°	388.9	387.7	387.1	387.2	387.4	387.7	387.9	388.1	387.9	387.7	387.4
150°	397.8	396.7	396.1	396.4	396.9	397.4	397.9	398.4	397.9	397.4	396.9
152.5°	406.2	405.1	404.6	404.9	405.4	406.0	406.5	407.1	406.5	406.0	405.4
155°	413.9	413.0	412.6	412.9	413.6	414.3	414.9	415.6	414.9	414.3	413.6
157.5°	420.8	420.1	419.8	420.1	420.6	421.2	421.7	422.3	421.7	421.2	420.6
160°	426.9	426.4	426.2	426.4	426.9	427.3	427.8	428.2	427.8	427.3	426.9
162.5°	431.9	431.6	431.4	431.6	432.0	432.5	432.9	433.3	432.9	432.5	432.0
165°	436.2	436.0	435.9	436.1	436.6	437.0	437.5	437.9	437.5	437.0	436.6
167.5°	439.8	439.6	439.5	439.7	440.1	440.6	441.0	441.4	441.0	440.6	440.1
170°	442.6	442.5	442.4	442.6	443.0	443.5	443.9	444.3	443.9	443.5	443.0
172.5°	444.5	444.4	444.3	444.5	445.0	445.4	445.9	446.3	445.9	445.4	445.0
175°	445.8	445.7	445.6	445.9	446.4	446.9	447.4	447.9	447.4	446.9	446.4
177.5°	446.4	446.3	446.3	446.5	447.0	447.5	448.0	448.5	448.0	447.5	447.0
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1965.7	1973.3	1971.8	1956.5	1939.7	1925.9	1900.0	1903.0	1893.9	1895.4	1904.6
5°	1916.8	1916.8	1910.7	1889.3	1861.8	1846.5	1817.5	1809.9	1791.5	1790.0	1788.5
7.5°	1864.8	1857.2	1849.6	1819.0	1785.4	1761.0	1721.3	1712.1	1693.8	1681.6	1675.5
10°	1803.8	1793.1	1777.8	1742.7	1701.4	1670.9	1629.6	1617.4	1582.3	1567.0	1557.9
12.5°	1736.6	1730.4	1706.0	1677.0	1609.8	1576.2	1516.6	1528.8	1493.7	1463.2	1458.6
15°	1669.4	1646.4	1632.7	1585.3	1504.4	1489.1	1441.8	1417.3	1385.3	1360.8	1360.8
17.5°	1603.7	1568.5	1538.0	1487.6	1428.0	1385.3	1350.1	1337.9	1298.2	1273.8	1269.2
20°	1516.6	1476.9	1469.3	1397.5	1356.3	1308.9	1275.3	1244.8	1215.7	1205.0	1197.4
22.5°	1434.1	1388.3	1376.1	1315.0	1273.8	1226.4	1192.8	1171.4	1150.1	1142.4	1128.7
25°	1345.6	1318.1	1299.7	1234.1	1188.2	1144.0	1121.0	1105.8	1085.9	1084.4	1075.2
27.5°	1260.0	1234.1	1215.7	1153.1	1119.5	1078.3	1060.0	1043.2	1032.5	1027.9	1023.3
30°	1186.7	1157.7	1136.3	1090.5	1049.3	1015.7	1000.4	989.7	983.6	976.0	974.4
32.5°	1105.8	1089.0	1060.0	1024.8	992.8	960.7	951.5	943.9	934.7	931.7	930.1
35°	1037.0	1014.1	995.8	956.1	942.4	914.9	904.2	898.1	885.8	882.8	879.7
37.5°	969.8	948.5	928.6	904.2	878.2	862.9	856.8	847.7	841.5	843.1	840.0
40°	902.6	885.8	870.6	844.6	829.3	821.7	809.5	800.3	797.3	798.8	797.3
42.5°	837.0	821.7	812.5	792.7	777.4	769.8	762.1	753.0	757.5	757.5	762.1
45°	777.4	763.7	757.5	742.3	733.1	720.9	713.3	711.7	717.8	716.3	716.3
47.5°	716.3	711.7	704.1	690.3	678.1	670.5	669.0	669.0	675.1	678.1	676.6
50°	669.0	659.8	650.6	639.9	630.8	627.7	623.1	626.2	632.3	632.3	635.4
52.5°	609.4	603.3	600.2	591.1	585.0	585.0	585.0	586.5	591.1	595.7	594.1
55°	557.5	552.9	549.8	545.3	537.6	539.1	537.6	540.7	545.3	549.8	552.9
57.5°	502.5	501.0	497.9	490.3	490.3	488.7	493.3	494.8	502.5	505.5	510.1
60°	453.6	449.0	449.0	442.9	442.9	442.9	447.5	452.1	458.2	459.7	462.8
62.5°	401.7	401.7	400.2	395.6	395.6	400.2	401.7	407.8	410.8	410.8	415.4
65°	352.8	351.3	349.8	351.3	352.8	352.8	357.4	360.4	363.5	365.0	366.6
67.5°	303.9	302.4	305.5	303.9	307.0	313.1	311.6	316.2	320.7	320.7	322.3
70°	258.1	261.2	259.6	262.7	261.2	264.2	268.8	270.3	270.3	271.9	276.4
72.5°	215.4	215.4	215.4	213.8	215.4	218.4	221.5	223.0	226.0	227.6	232.2
75°	174.1	174.1	171.1	174.1	174.1	177.2	180.2	180.2	180.2	183.3	187.9
77.5°	131.3	132.9	131.3	134.4	134.4	135.9	139.0	137.5	140.5	142.0	143.6
80°	96.2	94.7	94.7	94.7	96.2	96.2	99.3	100.8	100.8	105.4	102.3
82.5°	61.1	62.6	61.1	62.6	62.6	64.1	62.6	64.1	65.7	68.7	67.2
85°	35.1	33.6	33.6	35.1	33.6	33.6	35.1	33.6	35.1	33.6	35.1
87.5°	13.7	12.2	12.2	12.2	12.2	10.7	10.7	9.2	9.2	9.2	7.6
90°	3.5	3.9	4.2	4.8	5.3	5.9	6.5	6.9	7.2	7.6	7.9
92.5°	6.9	6.8	6.9	7.1	7.4	7.6	7.8	7.9	8.1	8.2	8.3
95°	11.5	10.3	10.6	11.1	11.6	12.1	12.6	13.0	13.3	13.7	14.0
97.5°	14.2	11.3	11.9	13.0	14.2	15.3	16.5	16.7	16.9	17.2	17.4
100°	17.8	12.9	13.5	14.7	16.0	17.2	18.4	19.0	19.6	20.1	20.7
102.5°	78.0	77.9	71.4	58.3	45.2	32.2	19.1	19.9	20.7	21.4	22.2
105°	106.9	108.0	98.2	78.6	58.9	39.3	19.7	20.5	21.3	22.1	22.9
107.5°	128.5	129.4	117.3	93.1	68.8	44.6	20.4	21.2	22.0	22.7	23.5
110°	149.3	150.1	139.7	118.9	98.2	77.4	56.6	49.4	42.2	35.1	27.9



TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	169.2	169.8	169.2	168.0	166.7	165.5	164.3	133.3	102.3	71.4	40.4
115°	190.8	191.4	192.3	194.1	195.9	197.7	199.5	166.2	133.0	99.7	66.4
117.5°	210.8	211.5	212.1	213.3	214.6	215.8	217.0	206.7	196.4	186.1	175.8
120°	230.7	231.2	231.8	233.1	234.4	235.7	237.0	237.9	238.7	239.6	240.5
122.5°	249.1	249.7	250.4	251.8	253.3	254.7	256.1	256.5	257.0	257.4	257.9
125°	266.6	267.1	267.8	269.2	270.5	271.9	273.3	273.8	274.3	274.8	275.3
127.5°	283.8	284.3	284.8	285.9	287.0	288.0	289.1	289.8	290.5	291.2	291.9
130°	300.1	300.7	301.1	301.9	302.7	303.5	304.3	305.1	305.9	306.7	307.5
132.5°	315.4	315.9	316.3	317.1	317.9	318.7	319.5	320.1	320.8	321.4	322.1
135°	329.9	330.5	330.8	331.5	332.1	332.8	333.4	334.1	334.8	335.5	336.2
137.5°	343.0	343.4	343.8	344.5	345.2	346.0	346.7	347.4	348.1	348.8	349.5
140°	355.7	356.0	356.4	357.2	358.0	358.8	359.6	360.2	360.9	361.5	362.2
142.5°	367.1	367.4	367.9	368.8	369.7	370.7	371.6	372.2	372.8	373.3	373.9
145°	377.1	377.1	377.7	378.9	380.2	381.4	382.6	383.1	383.6	384.1	384.6
147.5°	387.2	387.1	387.7	388.9	390.2	391.4	392.6	393.0	393.3	393.7	394.0
150°	396.4	396.1	396.7	397.8	399.0	400.1	401.3	401.7	402.2	402.6	403.1
152.5°	404.9	404.6	405.1	406.2	407.3	408.3	409.4	409.8	410.2	410.7	411.1
155°	412.9	412.6	413.0	413.9	414.8	415.6	416.5	416.9	417.4	417.8	418.3
157.5°	420.1	419.8	420.1	420.8	421.4	422.1	422.7	423.2	423.7	424.2	424.7
160°	426.4	426.2	426.4	426.9	427.3	427.8	428.2	428.6	429.0	429.5	429.9
162.5°	431.6	431.4	431.6	431.9	432.3	432.6	433.0	433.5	434.0	434.5	435.0
165°	436.1	435.9	436.0	436.2	436.5	436.7	436.9	437.4	437.9	438.4	438.9
167.5°	439.7	439.5	439.6	439.8	440.1	440.3	440.5	441.0	441.5	442.0	442.5
170°	442.6	442.4	442.5	442.6	442.7	442.9	443.0	443.5	444.0	444.5	445.0
172.5°	444.5	444.3	444.4	444.5	444.7	444.8	445.0	445.5	446.0	446.5	447.0
175°	445.9	445.6	445.7	445.8	446.0	446.1	446.3	446.8	447.3	447.8	448.3
177.5°	446.5	446.3	446.3	446.4	446.5	446.5	446.6	447.1	447.6	448.1	448.6
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1893.9	1898.4	1887.8	1884.7	1887.8	1877.1	1880.1	1883.2	1883.2	1887.8	1890.8
5°	1783.9	1777.8	1767.1	1764.0	1761.0	1765.6	1762.5	1767.1	1768.6	1779.3	1780.8
7.5°	1675.5	1666.3	1657.1	1648.0	1644.9	1637.3	1644.9	1644.9	1655.6	1652.6	1660.2
10°	1547.2	1545.6	1533.4	1528.8	1522.7	1510.5	1527.3	1522.7	1530.4	1544.1	1547.2
12.5°	1452.5	1435.7	1443.3	1421.9	1429.6	1417.3	1418.9	1418.9	1431.1	1432.6	1429.6
15°	1362.4	1348.6	1328.8	1319.6	1315.0	1308.9	1328.8	1330.3	1321.1	1342.5	1334.9
17.5°	1270.7	1270.7	1252.4	1247.8	1235.6	1241.7	1238.7	1240.2	1237.1	1252.4	1260.0
20°	1191.3	1183.7	1177.6	1179.1	1163.8	1160.8	1157.7	1160.8	1171.4	1182.1	1185.2
22.5°	1127.2	1122.6	1107.3	1110.4	1098.1	1102.7	1099.7	1107.3	1108.8	1108.8	1119.5
25°	1066.1	1060.0	1061.5	1055.4	1050.8	1050.8	1046.2	1050.8	1056.9	1060.0	1061.5
27.5°	1020.2	1015.7	1008.0	1003.4	1006.5	998.9	1005.0	1009.6	1009.6	1006.5	1009.6
30°	965.3	968.3	968.3	953.0	959.2	956.1	960.7	963.7	963.7	965.3	962.2
32.5°	928.6	919.4	917.9	916.4	916.4	910.3	910.3	914.9	916.4	917.9	922.5
35°	879.7	879.7	872.1	876.7	870.6	872.1	870.6	872.1	875.1	870.6	875.1
37.5°	835.4	837.0	833.9	837.0	838.5	835.4	832.4	838.5	835.4	835.4	832.4
40°	797.3	795.7	797.3	797.3	797.3	798.8	795.7	795.7	795.7	792.7	789.6
42.5°	765.2	756.0	759.1	760.6	756.0	756.0	757.5	756.0	760.6	751.4	751.4
45°	719.4	716.3	717.8	717.8	720.9	716.3	719.4	720.9	716.3	714.8	711.7
47.5°	678.1	681.2	678.1	681.2	681.2	684.2	678.1	679.7	681.2	675.1	670.5
50°	636.9	636.9	641.5	639.9	641.5	638.4	638.4	636.9	638.4	635.4	630.8
52.5°	598.7	594.1	601.8	600.2	598.7	597.2	595.7	597.2	594.1	591.1	591.1
55°	551.4	551.4	555.9	557.5	557.5	554.4	551.4	552.9	551.4	549.8	548.3
57.5°	513.2	507.1	510.1	511.6	511.6	507.1	510.1	507.1	507.1	508.6	504.0
60°	464.3	464.3	461.2	465.8	465.8	462.8	462.8	464.3	461.2	459.7	458.2
62.5°	412.4	413.9	418.5	420.0	421.5	418.5	415.4	417.0	417.0	412.4	413.9
65°	368.1	371.1	377.2	375.7	372.7	374.2	371.1	372.7	368.1	369.6	365.0
67.5°	325.3	323.8	325.3	325.3	328.4	326.8	323.8	323.8	322.3	326.8	322.3
70°	279.5	279.5	279.5	279.5	281.0	282.6	279.5	276.4	278.0	274.9	273.4
72.5°	232.2	233.7	232.2	235.2	230.6	233.7	233.7	232.2	230.6	230.6	230.6
75°	187.9	190.9	186.3	187.9	186.3	189.4	187.9	187.9	184.8	183.3	184.8
77.5°	143.6	145.1	142.0	143.6	142.0	143.6	143.6	142.0	142.0	142.0	142.0
80°	102.3	103.9	102.3	100.8	99.3	102.3	99.3	100.8	102.3	100.8	103.9
82.5°	65.7	65.7	64.1	65.7	62.6	62.6	64.1	64.1	62.6	65.7	62.6
85°	32.1	32.1	35.1	32.1	30.5	30.5	30.5	32.1	30.5	33.6	32.1
87.5°	7.6	6.1	7.6	7.6	6.1	6.1	7.6	6.1	7.6	9.2	6.1
90°	8.1	8.2	8.3	8.4	8.6	8.7	8.6	8.4	8.3	8.2	8.1
92.5°	8.4	8.4	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.4	8.4
95°	14.2	14.2	14.1	14.0	14.0	13.9	14.0	14.0	14.1	14.2	14.2
97.5°	17.5	17.5	17.6	17.7	17.7	17.8	17.7	17.7	17.6	17.5	17.5
100°	21.0	21.1	21.2	21.4	21.5	21.7	21.5	21.4	21.2	21.1	21.0
102.5°	22.6	22.7	22.9	23.2	23.4	23.6	23.4	23.2	22.9	22.7	22.6
105°	23.3	23.4	23.7	24.0	24.3	24.6	24.3	24.0	23.7	23.4	23.3
107.5°	23.9	24.0	24.3	24.6	24.9	25.2	24.9	24.6	24.3	24.0	23.9
110°	24.3	24.4	24.7	25.0	25.2	25.5	25.2	25.0	24.7	24.4	24.3

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	24.9	25.0	25.2	25.5	25.7	25.9	25.7	25.5	25.2	25.0	24.9
115°	49.8	47.2	42.0	36.9	31.7	26.5	31.7	36.9	42.0	47.2	49.8
117.5°	170.7	161.3	142.5	123.6	104.8	86.0	104.8	123.6	142.5	161.3	170.7
120°	240.9	236.1	226.4	216.7	207.0	197.3	207.0	216.7	226.4	236.1	240.9
122.5°	258.1	258.1	258.2	258.3	258.3	258.4	258.3	258.3	258.2	258.1	258.1
125°	275.5	275.6	275.8	276.1	276.3	276.5	276.3	276.1	275.8	275.6	275.5
127.5°	292.3	292.3	292.4	292.5	292.6	292.7	292.6	292.5	292.4	292.3	292.3
130°	307.9	307.9	307.8	307.7	307.6	307.5	307.6	307.7	307.8	307.9	307.9
132.5°	322.4	322.4	322.3	322.2	322.2	322.1	322.2	322.2	322.3	322.4	322.4
135°	336.6	336.5	336.4	336.3	336.1	336.0	336.1	336.3	336.4	336.5	336.6
137.5°	349.9	349.8	349.6	349.3	349.1	348.9	349.1	349.3	349.6	349.8	349.9
140°	362.5	362.3	362.0	361.6	361.3	360.9	361.3	361.6	362.0	362.3	362.5
142.5°	374.2	374.0	373.6	373.3	372.9	372.5	372.9	373.3	373.6	374.0	374.2
145°	384.8	384.6	384.3	383.9	383.6	383.2	383.6	383.9	384.3	384.6	384.8
147.5°	394.2	394.1	393.8	393.5	393.2	392.9	393.2	393.5	393.8	394.1	394.2
150°	403.3	403.1	402.7	402.4	402.0	401.6	402.0	402.4	402.7	403.1	403.3
152.5°	411.3	411.1	410.6	410.1	409.6	409.1	409.6	410.1	410.6	411.1	411.3
155°	418.5	418.2	417.6	417.1	416.5	415.9	416.5	417.1	417.6	418.2	418.5
157.5°	424.9	424.6	424.0	423.5	422.9	422.3	422.9	423.5	424.0	424.6	424.9
160°	430.1	429.8	429.3	428.8	428.3	427.8	428.3	428.8	429.3	429.8	430.1
162.5°	435.3	435.0	434.3	433.7	433.0	432.4	433.0	433.7	434.3	435.0	435.3
165°	439.2	438.9	438.4	437.9	437.4	436.9	437.4	437.9	438.4	438.9	439.2
167.5°	442.7	442.4	441.7	441.1	440.4	439.8	440.4	441.1	441.7	442.4	442.7
170°	445.3	445.0	444.3	443.7	443.0	442.4	443.0	443.7	444.3	445.0	445.3
172.5°	447.2	446.9	446.2	445.6	444.9	444.3	444.9	445.6	446.2	446.9	447.2
175°	448.5	448.1	447.4	446.7	446.0	445.3	446.0	446.7	447.4	448.1	448.5
177.5°	448.9	448.6	447.9	447.3	446.6	446.0	446.6	447.3	447.9	448.6	448.9
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0	1987.0
2.5°	1886.2	1898.4	1893.9	1877.1	1896.9	1896.9	1910.7	1910.7	1927.5	1933.6	1942.7
5°	1779.3	1788.5	1796.1	1788.5	1802.2	1823.6	1835.8	1846.5	1869.4	1878.6	1892.3
7.5°	1664.8	1681.6	1689.2	1689.2	1712.1	1736.6	1761.0	1776.3	1808.3	1820.6	1834.3
10°	1553.3	1573.1	1588.4	1586.9	1625.1	1640.3	1670.9	1706.0	1738.1	1756.4	1776.3
12.5°	1435.7	1446.4	1467.7	1498.3	1507.5	1534.9	1570.1	1614.4	1672.4	1689.2	1718.2
15°	1337.9	1366.9	1383.7	1397.5	1418.9	1444.8	1483.0	1525.8	1583.8	1620.5	1651.0
17.5°	1255.5	1293.6	1304.3	1301.3	1328.8	1368.5	1412.8	1444.8	1496.8	1541.1	1570.1
20°	1188.2	1203.5	1221.8	1229.5	1250.9	1293.6	1336.4	1373.1	1415.8	1450.9	1484.5
22.5°	1121.0	1133.3	1148.5	1162.3	1179.1	1203.5	1244.8	1290.6	1331.8	1365.4	1403.6
25°	1066.1	1073.7	1087.4	1098.1	1116.5	1133.3	1162.3	1212.7	1261.6	1281.4	1315.0
27.5°	1012.6	1018.7	1027.9	1040.1	1049.3	1066.1	1092.0	1133.3	1183.7	1203.5	1249.3
30°	965.3	969.8	979.0	985.1	989.7	1009.6	1029.4	1061.5	1099.7	1127.2	1160.8
32.5°	921.0	925.6	934.7	936.2	942.4	953.0	971.4	1000.4	1034.0	1056.9	1085.9
35°	872.1	875.1	884.3	887.4	892.0	901.1	914.9	936.2	966.8	983.6	1009.6
37.5°	833.9	832.4	838.5	843.1	849.2	853.8	858.3	879.7	902.6	917.9	937.8
40°	792.7	789.6	791.1	797.3	800.3	806.4	806.4	827.8	843.1	855.3	870.6
42.5°	751.4	749.9	746.9	749.9	753.0	754.5	756.0	771.3	786.6	797.3	814.1
45°	710.2	708.7	705.6	707.1	707.1	710.2	714.8	720.9	731.6	740.7	749.9
47.5°	672.0	669.0	664.4	662.9	665.9	665.9	665.9	672.0	682.7	685.8	694.9
50°	632.3	627.7	621.6	618.6	618.6	617.0	620.1	621.6	630.8	633.8	641.5
52.5°	589.5	586.5	580.4	574.3	575.8	572.7	574.3	575.8	578.9	583.4	588.0
55°	546.8	540.7	536.1	534.6	530.0	530.0	525.4	531.5	530.0	531.5	537.6
57.5°	505.5	499.4	491.8	488.7	484.2	482.6	479.6	478.0	479.6	484.2	488.7
60°	456.7	453.6	449.0	444.4	441.4	436.8	433.8	433.8	432.2	432.2	433.8
62.5°	409.3	407.8	401.7	400.2	397.1	394.0	389.5	386.4	386.4	389.5	391.0
65°	363.5	362.0	357.4	355.9	348.2	345.2	343.6	342.1	339.1	339.1	339.1
67.5°	320.7	316.2	316.2	308.5	302.4	299.4	296.3	294.8	294.8	294.8	296.3
70°	273.4	273.4	268.8	264.2	258.1	259.6	255.1	250.5	250.5	247.4	249.0
72.5°	227.6	226.0	221.5	219.9	215.4	210.8	207.7	210.8	206.2	204.7	206.2
75°	183.3	181.8	178.7	175.6	177.2	172.6	168.0	166.5	166.5	163.4	163.4
77.5°	140.5	143.6	137.5	135.9	132.9	129.8	128.3	126.8	126.8	126.8	129.8
80°	97.7	99.3	99.3	96.2	97.7	93.2	93.2	93.2	88.6	90.1	91.6
82.5°	62.6	62.6	61.1	62.6	61.1	61.1	59.6	59.6	58.0	58.0	59.6
85°	35.1	33.6	32.1	35.1	33.6	33.6	32.1	32.1	32.1	32.1	32.1
87.5°	7.6	9.2	9.2	9.2	9.2	10.7	10.7	10.7	12.2	12.2	12.2
90°	7.9	7.6	7.2	6.9	6.5	5.9	5.3	4.8	4.2	3.9	3.5
92.5°	8.3	8.2	8.1	7.9	7.8	7.6	7.4	7.1	6.9	6.8	6.9
95°	14.0	13.7	13.3	13.0	12.6	12.1	11.6	11.1	10.6	10.3	11.5
97.5°	17.4	17.2	16.9	16.7	16.5	15.3	14.2	13.0	11.9	11.3	14.2
100°	20.7	20.1	19.6	19.0	18.4	17.2	16.0	14.7	13.5	12.9	17.8
102.5°	22.2	21.4	20.7	19.9	19.1	32.2	45.2	58.3	71.4	77.9	78.0
105°	22.9	22.1	21.3	20.5	19.7	39.3	58.9	78.6	98.2	108.0	106.9
107.5°	23.5	22.7	22.0	21.2	20.4	44.6	68.8	93.1	117.3	129.4	128.5
110°	27.9	35.1	42.2	49.4	56.6	77.4	98.2	118.9	139.7	150.1	149.3

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	40.4	71.4	102.3	133.3	164.3	165.5	166.7	168.0	169.2	169.8	169.2
115°	66.4	99.7	133.0	166.2	199.5	197.7	195.9	194.1	192.3	191.4	190.8
117.5°	175.8	186.1	196.4	206.7	217.0	215.8	214.6	213.3	212.1	211.5	210.8
120°	240.5	239.6	238.7	237.9	237.0	235.7	234.4	233.1	231.8	231.2	230.7
122.5°	257.9	257.4	257.0	256.5	256.1	254.7	253.3	251.8	250.4	249.7	249.1
125°	275.3	274.8	274.3	273.8	273.3	271.9	270.5	269.2	267.8	267.1	266.6
127.5°	291.9	291.2	290.5	289.8	289.1	288.0	287.0	285.9	284.8	284.3	283.8
130°	307.5	306.7	305.9	305.1	304.3	303.5	302.7	301.9	301.1	300.7	300.1
132.5°	322.1	321.4	320.8	320.1	319.5	318.7	317.9	317.1	316.3	315.9	315.4
135°	336.2	335.5	334.8	334.1	333.4	332.8	332.1	331.5	330.8	330.5	329.9
137.5°	349.5	348.8	348.1	347.4	346.7	346.0	345.2	344.5	343.8	343.4	343.0
140°	362.2	361.5	360.9	360.2	359.6	358.8	358.0	357.2	356.4	356.0	355.7
142.5°	373.9	373.3	372.8	372.2	371.6	370.7	369.7	368.8	367.9	367.4	367.1
145°	384.6	384.1	383.6	383.1	382.6	381.4	380.2	378.9	377.7	377.1	377.1
147.5°	394.0	393.7	393.3	393.0	392.6	391.4	390.2	388.9	387.7	387.1	387.2
150°	403.1	402.6	402.2	401.7	401.3	400.1	399.0	397.8	396.7	396.1	396.4
152.5°	411.1	410.7	410.2	409.8	409.4	408.3	407.3	406.2	405.1	404.6	404.9
155°	418.3	417.8	417.4	416.9	416.5	415.6	414.8	413.9	413.0	412.6	412.9
157.5°	424.7	424.2	423.7	423.2	422.7	422.1	421.4	420.8	420.1	419.8	420.1
160°	429.9	429.5	429.0	428.6	428.2	427.8	427.3	426.9	426.4	426.2	426.4
162.5°	435.0	434.5	434.0	433.5	433.0	432.6	432.3	431.9	431.6	431.4	431.6
165°	438.9	438.4	437.9	437.4	436.9	436.7	436.5	436.2	436.0	435.9	436.1
167.5°	442.5	442.0	441.5	441.0	440.5	440.3	440.1	439.8	439.6	439.5	439.7
170°	445.0	444.5	444.0	443.5	443.0	442.9	442.7	442.6	442.5	442.4	442.6
172.5°	447.0	446.5	446.0	445.5	445.0	444.8	444.7	444.5	444.4	444.3	444.5
175°	448.3	447.8	447.3	446.8	446.3	446.1	446.0	445.8	445.7	445.6	445.9
177.5°	448.6	448.1	447.6	447.1	446.6	446.5	446.5	446.4	446.3	446.3	446.5
180°	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9	446.9

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1987.0	1987.0	1987.0	1987.0
2.5°	1950.4	1950.4	1973.3	1997.7
5°	1907.6	1918.3	1955.0	1988.6
7.5°	1866.4	1884.7	1930.5	1973.3
10°	1816.0	1840.4	1896.9	1947.3
12.5°	1767.1	1790.0	1855.7	1912.2
15°	1698.4	1727.4	1797.6	1867.9
17.5°	1629.6	1658.7	1744.2	1826.7
20°	1548.7	1586.9	1683.1	1793.1
22.5°	1473.9	1521.2	1628.1	1716.7
25°	1391.4	1464.7	1564.0	1678.5
27.5°	1318.1	1391.4	1492.2	1608.3
30°	1235.6	1310.4	1414.3	1521.2
32.5°	1156.2	1224.9	1325.7	1457.1
35°	1073.7	1139.4	1237.1	1370.0
37.5°	998.9	1063.0	1169.9	1292.1
40°	925.6	992.8	1084.4	1206.6
42.5°	856.8	916.4	998.9	1121.0
45°	794.2	837.0	913.3	1027.9
47.5°	728.5	766.7	837.0	951.5
50°	667.4	699.5	760.6	867.5
52.5°	607.9	635.4	691.9	777.4
55°	554.4	580.4	621.6	705.6
57.5°	499.4	519.3	559.0	626.2
60°	446.0	464.3	496.4	551.4
62.5°	392.5	407.8	438.3	482.6
65°	345.2	357.4	380.3	418.5
67.5°	299.4	307.0	325.3	355.9
70°	255.1	261.2	276.4	300.9
72.5°	207.7	213.8	230.6	247.4
75°	168.0	169.5	181.8	195.5
77.5°	131.3	129.8	139.0	149.7
80°	90.1	94.7	102.3	106.9
82.5°	61.1	62.6	65.7	68.7
85°	33.6	35.1	35.1	39.7
87.5°	13.7	15.3	15.3	16.8
90°	2.7	1.9	1.1	0.3
92.5°	7.2	7.5	7.8	8.1
95°	13.9	16.2	18.6	21.0
97.5°	20.1	26.0	31.9	37.8
100°	27.7	37.5	47.4	57.2
102.5°	78.1	78.3	78.4	78.6
105°	104.8	102.6	100.5	98.3
107.5°	126.7	124.9	123.1	121.3
110°	147.8	146.3	144.8	143.3

TEST NUMBER: P1007937

CATALOG NUMBER: S122DIP-B1005D330UB2750-4F0-XX-W2A-A_4000K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	167.9	166.6	165.3	164.0
115°	189.6	188.3	187.1	185.9
117.5°	209.3	207.9	206.4	205.0
120°	229.6	228.5	227.5	226.4
122.5°	248.0	246.8	245.7	244.5
125°	265.7	264.8	263.8	262.9
127.5°	282.8	281.7	280.7	279.7
130°	299.0	297.9	296.7	295.6
132.5°	314.5	313.6	312.6	311.7
135°	328.8	327.6	326.5	325.3
137.5°	342.1	341.3	340.4	339.6
140°	355.2	354.6	354.1	353.5
142.5°	366.6	366.1	365.6	365.1
145°	377.2	377.3	377.3	377.4
147.5°	387.4	387.7	387.9	388.1
150°	396.9	397.4	397.9	398.4
152.5°	405.4	406.0	406.5	407.1
155°	413.6	414.3	414.9	415.6
157.5°	420.6	421.2	421.7	422.3
160°	426.9	427.3	427.8	428.2
162.5°	432.0	432.5	432.9	433.3
165°	436.6	437.0	437.5	437.9
167.5°	440.1	440.6	441.0	441.4
170°	443.0	443.5	443.9	444.3
172.5°	445.0	445.4	445.9	446.3
175°	446.4	446.9	447.4	447.9
177.5°	447.0	447.5	448.0	448.5
180°	446.9	446.9	446.9	446.9

(END OF REPORT)