

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: P1012888

Luminaire Tested: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012888
REPORT IS A COMBINATION OF REPORTS P995310 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

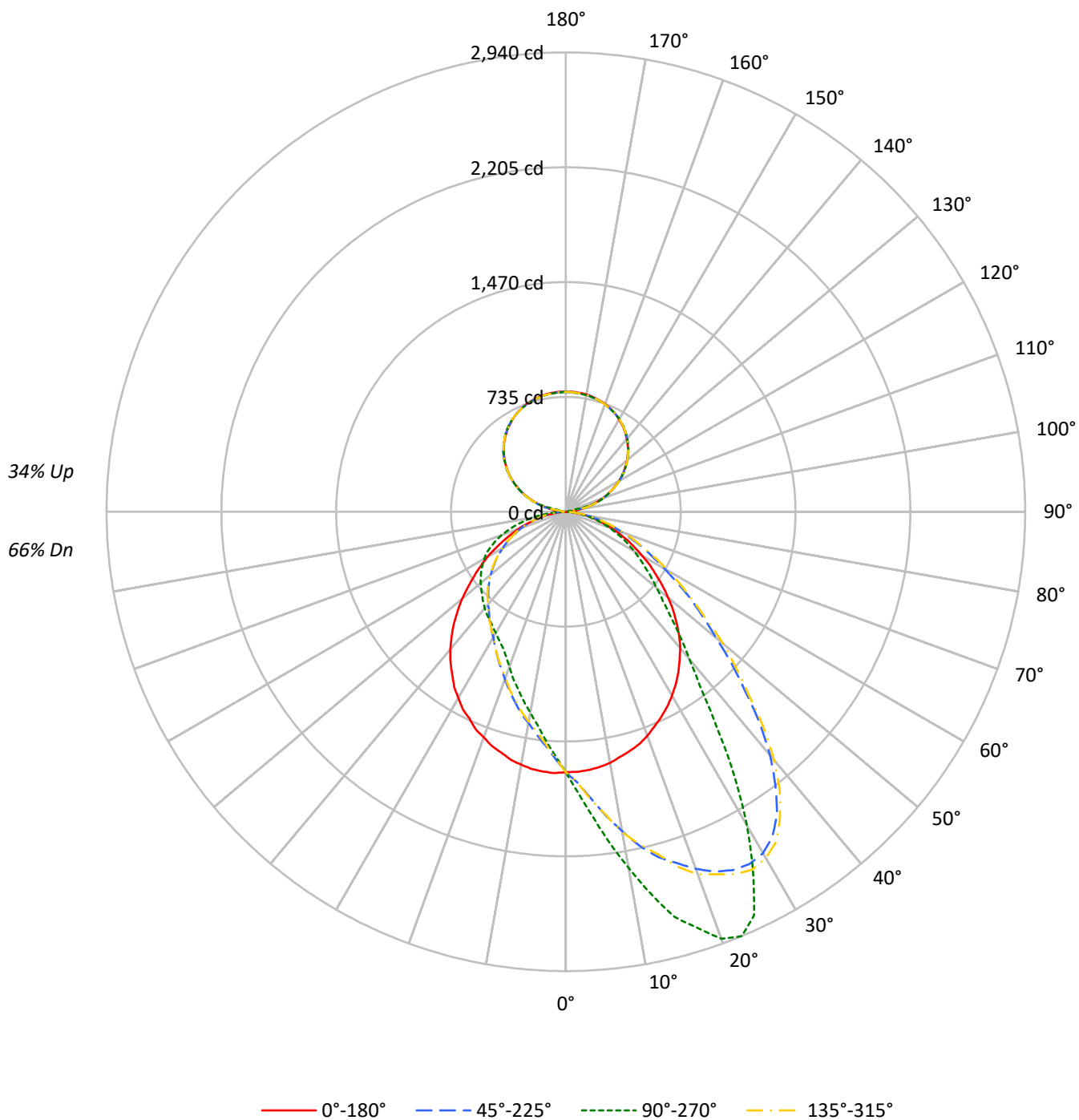
Lumens per Lamp: N/A
Luminaire Lumens: 6974.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60
2	93	85	79	74	87	81	75	71	72	67	64	63	60	57	56	53	51
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	45	41	37	40	37	33
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13585	13585	13585	13585
5°	13550	15585	13630	11711
10°	13449	18182	13551	10274
15°	13288	20961	13380	9193
20°	13115	22729	13211	8242
25°	12865	22470	12988	7541
30°	12619	18571	12773	7179
35°	12274	13839	12409	6960
40°	11872	10425	11987	6852
45°	11259	8368	11398	6706
50°	10525	7050	10678	6638
55°	9662	6135	9815	6560
60°	8824	5403	9084	6451
65°	8038	4649	8115	6182
70°	7112	3825	7266	5692
75°	6204	2939	6164	4836
80°	4882	1931	4824	3672
85°	3216	868	3013	2140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 17565 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	2.3
10°-20°	500.4	7.2
20°-30°	795.0	11.4
30°-40°	883.4	12.7
40°-50°	803.4	11.5
50°-60°	656.5	9.4
60°-70°	468.6	6.7
70°-80°	257.9	3.7
80°-90°	71.3	1.0
90°-100°	25.5	0.4
100°-110°	167.8	2.4
110°-120°	320.5	4.6
120°-130°	406.8	5.8
130°-140°	435.2	6.2
140°-150°	406.9	5.8
150°-160°	328.2	4.7
160°-170°	211.6	3.0
170°-180°	72.9	1.0
0°-30°	1457.6	20.9
0°-40°	2341.0	33.6
0°-60°	3800.8	54.5
0°-90°	4598.6	65.9
90°-120°	513.8	7.4
90°-150°	1762.7	25.3
90°-180°	2375.0	34.1
0°-180°	6974.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1666	1666	1666	1666	1666	
5°	1659	1954	1669	1469	1659	157
15°	1584	2684	1596	1177	1584	447
25°	1446	2850	1460	956	1446	667
35°	1255	1685	1268	848	1255	784
45°	1001	946	1013	758	1001	772
55°	704	618	715	661	704	633
65°	439	398	443	529	439	433
75°	215	199	214	327	215	226
85°	44	41	41	102	44	51
90°	2	17	2	17	2	4
95°	32	17	32	17	32	39
105°	173	164	173	164	173	181
115°	323	325	323	325	323	318
125°	454	457	454	457	454	405
135°	563	567	563	567	563	434
145°	649	652	649	652	649	405
155°	711	711	711	711	711	328
165°	750	747	750	747	750	212
175°	768	763	768	763	768	73
180°	768	768	768	768	768	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1665.9	1682.5	1689.4	1694.9	1712.9	1718.4	1719.8	1728.0	1734.9	1736.3	1736.3
5°	1659.0	1685.2	1706.0	1725.3	1754.3	1766.7	1781.9	1798.4	1820.5	1834.3	1841.2
7.5°	1648.0	1686.6	1718.4	1751.5	1791.5	1816.4	1830.2	1874.3	1904.7	1929.5	1959.9
10°	1631.4	1681.1	1726.7	1775.0	1831.6	1861.9	1892.3	1946.1	1988.9	2037.2	2075.9
12.5°	1606.6	1671.4	1726.7	1794.3	1864.7	1900.6	1936.4	2030.3	2080.0	2122.8	2191.8
15°	1584.5	1649.4	1728.0	1797.0	1884.0	1937.8	1990.3	2051.0	2129.7	2222.2	2288.4
17.5°	1559.6	1641.1	1714.2	1810.8	1907.5	1958.5	2001.3	2095.2	2205.6	2296.7	2357.4
20°	1525.1	1608.0	1704.6	1806.7	1921.3	1961.3	2017.9	2143.5	2242.9	2332.6	2431.9
22.5°	1485.1	1581.7	1683.9	1781.9	1900.6	1984.8	2046.9	2157.3	2277.4	2380.9	2492.7
25°	1446.5	1551.4	1641.1	1775.0	1900.6	1957.2	2027.5	2158.7	2289.8	2415.4	2529.9
27.5°	1405.1	1503.1	1624.5	1730.8	1873.0	1935.1	2011.0	2154.5	2293.9	2419.5	2542.4
30°	1359.5	1464.4	1565.2	1690.8	1828.8	1908.8	1979.2	2135.2	2277.4	2408.5	2523.0
32.5°	1308.4	1407.8	1515.5	1634.2	1779.1	1860.5	1948.9	2109.0	2260.8	2374.0	2462.3
35°	1254.6	1355.4	1449.2	1570.7	1719.8	1801.2	1886.8	2063.4	2213.9	2306.3	2357.4
37.5°	1195.3	1290.5	1383.0	1503.1	1652.1	1739.1	1826.0	1997.2	2139.3	2216.6	2202.8
40°	1138.7	1224.3	1309.8	1423.0	1579.0	1671.4	1747.4	1919.9	2044.1	2077.2	2031.7
42.5°	1073.8	1147.0	1229.8	1345.7	1497.5	1584.5	1679.7	1837.1	1929.5	1915.7	1838.5
45°	1000.7	1065.5	1148.3	1257.4	1412.0	1501.7	1581.7	1730.8	1798.4	1763.9	1623.1
47.5°	930.3	993.8	1061.4	1170.4	1320.9	1396.8	1478.2	1612.1	1650.7	1577.6	1436.8
50°	854.4	906.8	977.2	1080.7	1221.5	1301.5	1369.2	1476.8	1490.6	1400.9	1254.6
52.5°	781.2	825.4	893.0	995.1	1126.3	1189.7	1256.0	1351.2	1340.2	1247.7	1106.9
55°	703.9	745.3	807.4	901.3	1017.2	1078.0	1134.5	1218.7	1195.3	1100.0	977.2
57.5°	639.0	668.0	728.8	815.7	910.9	977.2	1025.5	1091.8	1055.9	960.6	846.1
60°	564.5	600.4	651.5	721.9	815.7	859.9	902.7	946.8	922.0	830.9	728.8
62.5°	496.9	524.5	568.7	636.3	709.4	749.5	795.0	822.6	797.8	713.6	628.0
65°	438.9	461.0	495.5	550.7	621.1	654.2	680.4	706.7	686.0	607.3	545.2
67.5°	375.4	394.7	423.7	467.9	527.2	550.7	575.6	593.5	570.0	517.6	456.9
70°	318.8	332.6	360.2	393.4	434.8	456.9	477.6	495.5	474.8	430.6	385.1
72.5°	260.9	271.9	296.7	320.2	357.5	372.7	387.8	401.6	394.7	353.3	316.1
75°	215.3	219.5	236.0	255.3	278.8	295.4	306.4	314.7	309.2	276.0	252.6
77.5°	162.9	168.4	180.8	196.0	216.7	226.4	233.3	241.5	234.6	208.4	191.9
80°	118.7	120.1	127.0	140.8	154.6	156.0	162.9	173.9	169.8	151.8	139.4
82.5°	75.9	80.1	82.8	91.1	100.8	103.5	107.7	110.4	109.0	98.0	93.9
85°	44.2	44.2	46.9	52.4	55.2	59.3	60.7	62.1	64.9	58.0	53.8
87.5°	19.3	20.7	20.7	22.1	24.8	24.8	26.2	27.6	29.0	27.6	23.5
90°	1.7	3.1	4.5	5.9	7.3	8.0	8.5	9.5	10.6	11.6	12.6
92.5°	8.6	8.4	8.1	7.9	7.6	7.5	8.0	9.0	10.1	11.1	12.1
95°	31.6	27.3	22.9	18.6	14.3	12.1	12.2	12.3	12.4	12.5	12.6
97.5°	60.3	63.1	65.9	68.7	71.5	72.9	66.2	52.8	39.4	26.0	12.6
100°	94.2	96.5	98.8	101.1	103.4	104.5	95.7	78.1	60.5	42.9	25.3
102.5°	132.1	133.6	135.1	136.6	138.1	138.9	139.7	141.2	142.7	144.3	145.8
105°	172.8	173.6	174.4	175.1	175.9	176.3	176.6	177.2	177.9	178.5	179.1
107.5°	210.1	210.5	210.9	211.3	211.7	211.9	212.3	213.2	214.1	215.0	215.9
110°	248.0	248.4	248.8	249.2	249.6	249.8	250.2	250.9	251.7	252.4	253.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	284.8	285.6	286.3	287.1	287.8	288.2	288.3	288.6	288.9	289.1	289.4
115°	322.7	323.1	323.5	323.8	324.2	324.4	324.3	324.2	324.1	323.9	323.8
117.5°	356.6	357.1	357.6	358.1	358.6	358.9	359.1	359.5	359.8	360.2	360.6
120°	391.0	391.5	392.0	392.5	393.0	393.3	393.2	393.1	393.0	392.8	392.7
122.5°	423.2	423.4	423.7	423.9	424.2	424.3	424.4	424.7	425.0	425.2	425.5
125°	453.6	454.1	454.6	455.1	455.6	455.9	455.8	455.5	455.2	455.0	454.7
127.5°	482.9	483.0	483.1	483.2	483.3	483.4	483.7	484.4	485.0	485.7	486.3
130°	511.0	511.1	511.3	511.4	511.5	511.6	511.8	512.2	512.5	512.9	513.3
132.5°	536.8	537.1	537.3	537.6	537.9	538.0	538.3	538.8	539.3	539.8	540.3
135°	562.7	562.6	562.4	562.3	562.2	562.1	562.4	562.9	563.4	563.9	564.4
137.5°	585.7	585.7	585.7	585.7	585.7	585.7	586.0	586.6	587.3	587.9	588.5
140°	608.0	608.3	608.5	608.8	609.1	609.2	609.3	609.6	609.8	610.1	610.3
142.5°	628.1	628.6	629.1	629.6	630.1	630.4	630.5	630.6	630.7	630.9	631.0
145°	648.8	649.2	649.6	649.9	650.3	650.5	650.5	650.5	650.5	650.5	650.5
147.5°	664.9	665.7	666.4	667.2	667.9	668.3	668.2	668.1	668.0	667.9	667.8
150°	682.7	683.2	683.7	684.2	684.7	685.0	684.9	684.8	684.7	684.5	684.4
152.5°	697.6	698.0	698.4	698.7	699.1	699.3	699.2	698.9	698.7	698.4	698.2
155°	711.4	711.5	711.7	711.8	711.9	712.0	711.8	711.4	711.0	710.6	710.2
157.5°	723.5	723.5	723.5	723.5	723.5	723.5	723.2	722.7	722.2	721.7	721.2
160°	733.8	733.4	733.0	732.7	732.3	732.1	732.0	731.9	731.8	731.6	731.5
162.5°	743.0	742.5	742.0	741.5	741.0	740.7	740.6	740.5	740.4	740.2	740.1
165°	750.4	749.8	749.2	748.5	747.9	747.6	747.6	747.6	747.6	747.6	747.6
167.5°	756.8	756.2	755.5	754.9	754.2	753.9	753.8	753.7	753.6	753.4	753.3
170°	761.9	761.1	760.4	759.6	758.9	758.5	758.6	758.7	758.8	758.9	759.0
172.5°	765.4	764.6	763.8	763.1	762.3	761.9	762.0	762.1	762.2	762.4	762.5
175°	767.7	766.9	766.1	765.4	764.6	764.2	764.3	764.4	764.5	764.7	764.8
177.5°	769.4	768.5	767.6	766.7	765.8	765.4	765.5	765.8	766.0	766.3	766.5
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1740.5	1765.3	1776.3	1779.1	1794.3	1784.6	1788.8	1787.4	1798.4	1799.8	1799.8
5°	1867.4	1896.4	1906.1	1919.9	1940.6	1946.1	1942.0	1950.3	1965.4	1954.4	1971.0
7.5°	2001.3	2033.1	2055.1	2085.5	2092.4	2110.4	2121.4	2131.1	2133.8	2135.2	2138.0
10°	2125.5	2165.6	2195.9	2247.0	2258.0	2267.7	2316.0	2296.7	2321.5	2313.2	2316.0
12.5°	2226.3	2305.0	2329.8	2415.4	2423.7	2456.8	2454.0	2484.4	2489.9	2501.0	2489.9
15°	2358.8	2449.9	2489.9	2538.2	2565.8	2604.5	2611.4	2652.8	2669.3	2684.5	2669.3
17.5°	2480.3	2528.6	2630.7	2669.3	2687.3	2708.0	2760.4	2775.6	2800.5	2790.8	2818.4
20°	2541.0	2610.0	2717.7	2783.9	2811.5	2830.8	2875.0	2898.5	2908.1	2908.1	2910.9
22.5°	2594.8	2694.2	2774.2	2850.2	2875.0	2888.8	2915.0	2933.0	2937.1	2939.9	2942.6
25°	2643.1	2732.8	2797.7	2840.5	2850.2	2850.2	2865.3	2854.3	2836.4	2850.2	2858.4
27.5°	2643.1	2706.6	2735.6	2750.8	2750.8	2713.5	2691.4	2645.9	2607.2	2596.2	2621.0
30°	2599.0	2627.9	2587.9	2550.6	2521.7	2496.8	2409.9	2340.9	2327.1	2317.4	2354.7
32.5°	2496.8	2459.6	2380.9	2273.2	2230.4	2173.8	2106.2	2053.8	2022.0	2011.0	2002.7
35°	2316.0	2219.4	2117.3	1972.3	1942.0	1870.2	1777.7	1739.1	1686.6	1685.2	1703.2
37.5°	2118.6	1969.6	1859.2	1721.1	1678.3	1602.4	1515.5	1475.5	1439.6	1412.0	1445.1
40°	1888.1	1758.4	1590.0	1476.8	1416.1	1376.1	1302.9	1258.8	1242.2	1228.4	1249.1
42.5°	1672.8	1530.7	1399.5	1283.6	1233.9	1188.4	1140.1	1097.3	1084.9	1083.5	1098.7
45°	1458.9	1319.5	1198.0	1098.7	1066.9	1039.3	992.4	980.0	959.3	945.5	952.4
47.5°	1287.7	1144.2	1043.4	967.5	939.9	916.5	886.1	865.4	847.5	841.9	850.2
50°	1119.4	1022.7	919.2	855.7	835.0	812.9	789.5	770.2	761.9	756.4	761.9
52.5°	984.1	880.6	810.2	759.1	738.4	721.9	705.3	697.0	686.0	688.7	694.3
55°	862.6	771.5	712.2	674.9	662.5	655.6	634.9	625.2	621.1	618.3	621.1
57.5°	748.1	681.8	637.7	605.9	589.4	585.2	568.7	568.7	564.5	560.4	561.7
60°	657.0	600.4	557.6	532.8	530.0	523.1	512.1	510.7	501.0	505.2	506.5
62.5°	564.5	519.0	490.0	474.8	465.1	462.4	455.5	454.1	450.0	451.3	448.6
65°	491.4	454.1	425.1	412.7	408.5	407.2	401.6	397.5	394.7	397.5	394.7
67.5°	418.2	393.4	371.3	358.9	353.3	352.0	347.8	345.1	346.4	342.3	345.1
70°	349.2	324.4	310.5	303.6	300.9	296.7	296.7	296.7	296.7	294.0	292.6
72.5°	294.0	269.1	259.5	255.3	252.6	251.2	247.1	248.4	247.1	245.7	251.2
75°	233.3	218.1	208.4	204.3	207.0	202.9	198.8	201.5	197.4	198.8	204.3
77.5°	176.7	169.8	164.2	161.5	158.7	156.0	156.0	153.2	153.2	153.2	153.2
80°	128.4	127.0	117.3	115.9	115.9	113.2	113.2	113.2	113.2	111.8	113.2
82.5°	85.6	84.2	81.4	80.1	77.3	78.7	78.7	75.9	75.9	74.5	75.9
85°	49.7	49.7	46.9	45.5	44.2	45.5	42.8	41.4	42.8	41.4	42.8
87.5°	23.5	20.7	22.1	20.7	17.9	19.3	16.6	17.9	16.6	15.2	17.9
90°	13.4	14.2	14.9	15.7	16.1	16.2	16.5	16.7	17.0	17.2	17.0
92.5°	12.9	13.6	14.4	15.1	15.5	15.5	15.5	15.5	15.5	15.5	15.5
95°	13.4	14.2	14.9	15.7	16.1	16.2	16.3	16.4	16.6	16.7	16.6
97.5°	13.2	13.9	14.5	15.2	15.5	15.6	15.7	15.8	16.0	16.1	16.0
100°	23.1	20.9	18.8	16.6	15.5	15.6	15.7	15.8	16.0	16.1	16.0
102.5°	117.1	88.4	59.7	31.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7
105°	180.3	181.4	182.6	183.7	184.3	182.0	177.4	172.8	168.2	163.6	168.2
107.5°	216.5	217.2	217.8	218.5	218.8	219.1	219.6	220.1	220.6	221.1	220.6
110°	253.5	253.7	254.0	254.3	254.4	254.6	255.0	255.3	255.7	256.1	255.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	289.3	289.1	289.0	288.9	288.8	289.1	289.6	290.1	290.6	291.1	290.6
115°	324.1	324.3	324.6	324.9	325.0	325.0	325.0	325.0	325.0	325.0	325.0
117.5°	360.5	360.3	360.2	360.1	360.0	360.0	360.0	360.0	360.0	360.0	360.0
120°	393.0	393.2	393.5	393.8	393.9	393.8	393.5	393.2	393.0	392.7	393.0
122.5°	425.6	425.7	425.8	425.9	426.0	425.9	425.6	425.4	425.1	424.9	425.1
125°	455.1	455.5	455.9	456.3	456.5	456.6	456.7	456.8	456.9	457.0	456.9
127.5°	486.2	486.0	485.9	485.8	485.7	485.6	485.5	485.4	485.3	485.2	485.3
130°	513.4	513.6	513.7	513.8	513.9	513.9	513.9	513.9	513.9	513.9	513.9
132.5°	540.4	540.6	540.7	540.8	540.9	540.8	540.7	540.6	540.4	540.3	540.4
135°	564.7	564.9	565.2	565.5	565.6	565.7	566.0	566.2	566.5	566.7	566.5
137.5°	588.8	589.0	589.3	589.6	589.7	589.6	589.5	589.4	589.2	589.1	589.2
140°	610.7	611.1	611.5	611.9	612.1	612.2	612.3	612.4	612.5	612.6	612.5
142.5°	631.3	631.5	631.8	632.1	632.2	632.2	632.2	632.2	632.2	632.2	632.2
145°	650.6	650.8	650.9	651.0	651.1	651.2	651.5	651.8	652.0	652.3	652.0
147.5°	667.9	668.0	668.1	668.2	668.3	668.4	668.5	668.6	668.8	668.9	668.8
150°	684.4	684.4	684.4	684.4	684.4	684.5	684.6	684.7	684.9	685.0	684.9
152.5°	698.4	698.7	698.9	699.2	699.3	699.2	699.1	699.0	698.9	698.8	698.9
155°	710.7	711.2	711.7	712.2	712.5	712.3	711.9	711.6	711.2	710.8	711.2
157.5°	721.8	722.4	723.1	723.7	724.0	723.7	723.1	722.4	721.8	721.2	721.8
160°	732.3	733.0	733.8	734.5	734.9	734.5	733.8	733.0	732.3	731.5	732.3
162.5°	740.9	741.6	742.4	743.1	743.5	743.1	742.2	741.3	740.4	739.5	740.4
165°	748.6	749.6	750.7	751.7	752.2	751.6	750.5	749.3	748.2	747.0	748.2
167.5°	754.5	755.6	756.8	757.9	758.5	757.9	756.6	755.3	754.0	752.7	754.0
170°	760.0	761.0	762.1	763.1	763.6	763.0	761.7	760.4	759.2	757.9	759.2
172.5°	763.5	764.5	765.6	766.6	767.1	766.4	765.0	763.6	762.2	760.8	762.2
175°	766.0	767.1	768.3	769.4	770.0	769.2	767.7	766.2	764.6	763.1	764.6
177.5°	767.5	768.5	769.6	770.6	771.1	770.3	768.8	767.3	765.7	764.2	765.7
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1797.0	1792.9	1787.4	1787.4	1780.5	1780.5	1769.4	1750.1	1733.6	1728.0	1730.8
5°	1950.3	1951.6	1943.3	1936.4	1924.0	1914.4	1896.4	1861.9	1850.9	1828.8	1813.6
7.5°	2125.5	2120.0	2104.8	2093.8	2091.0	2068.9	2030.3	1988.9	1955.8	1933.7	1901.9
10°	2322.9	2300.8	2278.7	2271.8	2255.3	2218.0	2173.8	2128.3	2082.8	2034.4	1980.6
12.5°	2488.5	2445.7	2444.4	2427.8	2396.1	2375.4	2322.9	2258.0	2179.4	2125.5	2064.8
15°	2666.6	2626.6	2593.4	2563.1	2547.9	2487.2	2443.0	2361.6	2267.7	2209.7	2168.3
17.5°	2793.6	2775.6	2719.0	2705.2	2684.5	2614.1	2543.7	2463.7	2382.3	2300.8	2189.0
20°	2895.7	2884.7	2847.4	2828.1	2794.9	2739.7	2654.2	2561.7	2467.8	2351.9	2247.0
22.5°	2939.9	2926.1	2895.7	2879.1	2858.4	2811.5	2738.4	2633.5	2510.6	2407.1	2295.3
25°	2852.9	2877.8	2869.5	2862.6	2854.3	2826.7	2771.5	2679.0	2558.9	2441.6	2302.2
27.5°	2656.9	2699.7	2741.1	2746.6	2760.4	2771.5	2749.4	2683.1	2582.4	2458.2	2305.0
30°	2393.3	2412.6	2496.8	2521.7	2541.0	2611.4	2652.8	2636.2	2558.9	2447.1	2306.3
32.5°	2055.1	2106.2	2191.8	2251.1	2303.6	2382.3	2489.9	2532.7	2505.1	2414.0	2274.6
35°	1734.9	1795.7	1895.0	1971.0	2023.4	2135.2	2262.2	2354.7	2389.2	2343.6	2219.4
37.5°	1472.7	1545.8	1634.2	1663.2	1723.9	1861.9	2037.2	2165.6	2249.8	2253.9	2157.3
40°	1275.3	1312.6	1383.0	1427.1	1486.5	1602.4	1773.6	1943.3	2070.3	2113.1	2062.0
42.5°	1108.3	1137.3	1189.7	1243.6	1297.4	1385.7	1543.1	1701.8	1873.0	1958.5	1957.2
45°	975.8	1006.2	1042.1	1086.2	1123.5	1218.7	1343.0	1505.8	1653.5	1786.0	1819.1
47.5°	859.9	886.1	930.3	949.6	974.4	1064.1	1171.8	1323.6	1476.8	1628.7	1667.3
50°	774.3	796.4	826.8	839.2	866.8	933.0	1021.4	1144.2	1314.0	1453.4	1525.1
52.5°	697.0	713.6	737.0	746.7	766.0	815.7	895.8	992.4	1133.2	1276.7	1377.5
55°	630.8	641.8	658.4	669.4	683.2	727.4	786.7	873.7	995.1	1119.4	1217.4
57.5°	568.7	576.9	593.5	599.0	610.1	644.6	686.0	759.1	870.9	981.3	1076.6
60°	510.7	516.2	525.9	538.3	546.6	570.0	608.7	669.4	759.1	859.9	937.2
62.5°	455.5	463.8	466.5	472.0	478.9	501.0	531.4	575.6	654.2	737.0	818.5
65°	398.9	405.8	411.3	412.7	419.6	436.1	463.8	502.4	553.5	625.2	701.2
67.5°	346.4	350.6	353.3	358.9	365.8	374.0	396.1	425.1	472.0	530.0	590.7
70°	298.1	298.1	302.3	303.6	311.9	321.6	331.3	358.9	400.3	447.2	488.6
72.5°	245.7	252.6	251.2	258.1	256.7	263.6	276.0	294.0	324.4	361.6	401.6
75°	200.1	204.3	204.3	204.3	207.0	212.6	219.5	236.0	259.5	289.8	313.3
77.5°	156.0	158.7	158.7	158.7	160.1	165.6	172.5	183.6	200.1	218.1	231.9
80°	111.8	114.6	114.6	117.3	117.3	118.7	125.6	131.1	139.4	153.2	167.0
82.5°	75.9	77.3	80.1	80.1	78.7	81.4	82.8	88.3	96.6	99.4	109.0
85°	41.4	42.8	44.2	44.2	45.5	48.3	46.9	52.4	52.4	58.0	60.7
87.5°	16.6	19.3	19.3	17.9	19.3	19.3	19.3	22.1	23.5	24.8	23.5
90°	16.7	16.5	16.2	16.1	15.7	14.9	14.2	13.4	12.6	11.6	10.6
92.5°	15.5	15.5	15.5	15.5	15.1	14.4	13.6	12.9	12.1	11.1	10.1
95°	16.4	16.3	16.2	16.1	15.7	14.9	14.2	13.4	12.6	12.5	12.4
97.5°	15.8	15.7	15.6	15.5	15.2	14.5	13.9	13.2	12.6	26.0	39.4
100°	15.8	15.7	15.6	15.5	16.6	18.8	20.9	23.1	25.3	42.9	60.5
102.5°	16.7	16.7	16.7	16.7	31.0	59.7	88.4	117.1	145.8	144.3	142.7
105°	172.8	177.4	182.0	184.3	183.7	182.6	181.4	180.3	179.1	178.5	177.9
107.5°	220.1	219.6	219.1	218.8	218.5	217.8	217.2	216.5	215.9	215.0	214.1
110°	255.3	255.0	254.6	254.4	254.3	254.0	253.7	253.5	253.2	252.4	251.7

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CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	290.1	289.6	289.1	288.8	288.9	289.0	289.1	289.3	289.4	289.1	288.9
115°	325.0	325.0	325.0	325.0	324.9	324.6	324.3	324.1	323.8	323.9	324.1
117.5°	360.0	360.0	360.0	360.0	360.1	360.2	360.3	360.5	360.6	360.2	359.8
120°	393.2	393.5	393.8	393.9	393.8	393.5	393.2	393.0	392.7	392.8	393.0
122.5°	425.4	425.6	425.9	426.0	425.9	425.8	425.7	425.6	425.5	425.2	425.0
125°	456.8	456.7	456.6	456.5	456.3	455.9	455.5	455.1	454.7	455.0	455.2
127.5°	485.4	485.5	485.6	485.7	485.8	485.9	486.0	486.2	486.3	485.7	485.0
130°	513.9	513.9	513.9	513.9	513.8	513.7	513.6	513.4	513.3	512.9	512.5
132.5°	540.6	540.7	540.8	540.9	540.8	540.7	540.6	540.4	540.3	539.8	539.3
135°	566.2	566.0	565.7	565.6	565.5	565.2	564.9	564.7	564.4	563.9	563.4
137.5°	589.4	589.5	589.6	589.7	589.6	589.3	589.0	588.8	588.5	587.9	587.3
140°	612.4	612.3	612.2	612.1	611.9	611.5	611.1	610.7	610.3	610.1	609.8
142.5°	632.2	632.2	632.2	632.2	632.1	631.8	631.5	631.3	631.0	630.9	630.7
145°	651.8	651.5	651.2	651.1	651.0	650.9	650.8	650.6	650.5	650.5	650.5
147.5°	668.6	668.5	668.4	668.3	668.2	668.1	668.0	667.9	667.8	667.9	668.0
150°	684.7	684.6	684.5	684.4	684.4	684.4	684.4	684.4	684.4	684.5	684.7
152.5°	699.0	699.1	699.2	699.3	699.2	698.9	698.7	698.4	698.2	698.4	698.7
155°	711.6	711.9	712.3	712.5	712.2	711.7	711.2	710.7	710.2	710.6	711.0
157.5°	722.4	723.1	723.7	724.0	723.7	723.1	722.4	721.8	721.2	721.7	722.2
160°	733.0	733.8	734.5	734.9	734.5	733.8	733.0	732.3	731.5	731.6	731.8
162.5°	741.3	742.2	743.1	743.5	743.1	742.4	741.6	740.9	740.1	740.2	740.4
165°	749.3	750.5	751.6	752.2	751.7	750.7	749.6	748.6	747.6	747.6	747.6
167.5°	755.3	756.6	757.9	758.5	757.9	756.8	755.6	754.5	753.3	753.4	753.6
170°	760.4	761.7	763.0	763.6	763.1	762.1	761.0	760.0	759.0	758.9	758.8
172.5°	763.6	765.0	766.4	767.1	766.6	765.6	764.5	763.5	762.5	762.4	762.2
175°	766.2	767.7	769.2	770.0	769.4	768.3	767.1	766.0	764.8	764.7	764.5
177.5°	767.3	768.8	770.3	771.1	770.6	769.6	768.5	767.5	766.5	766.3	766.0
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1718.4	1712.9	1708.7	1708.7	1696.3	1683.9	1677.0	1674.2	1671.4	1660.4	1645.2
5°	1788.8	1770.8	1758.4	1746.0	1725.3	1703.2	1681.1	1668.7	1650.7	1625.9	1608.0
7.5°	1867.4	1824.7	1810.8	1795.7	1754.3	1717.0	1686.6	1660.4	1631.4	1599.7	1567.9
10°	1933.7	1888.1	1857.8	1831.6	1777.7	1728.0	1682.5	1643.8	1606.6	1565.2	1526.5
12.5°	1997.2	1932.3	1900.6	1861.9	1805.3	1733.6	1674.2	1625.9	1570.7	1527.9	1481.0
15°	2085.5	1976.5	1924.0	1899.2	1823.3	1739.1	1667.3	1595.5	1550.0	1485.1	1443.7
17.5°	2099.3	2011.0	1976.5	1913.0	1821.9	1726.7	1643.8	1572.1	1503.1	1445.1	1391.3
20°	2147.6	2031.7	1976.5	1936.4	1816.4	1719.8	1628.7	1536.2	1469.9	1407.8	1347.1
22.5°	2178.0	2046.9	1988.9	1925.4	1810.8	1694.9	1587.3	1507.2	1425.8	1362.3	1314.0
25°	2169.7	2038.6	1973.7	1914.4	1775.0	1659.0	1562.4	1460.3	1384.4	1315.3	1251.9
27.5°	2165.6	2017.9	1948.9	1882.6	1751.5	1630.0	1508.6	1425.8	1341.6	1261.5	1214.6
30°	2154.5	1991.7	1911.6	1839.8	1703.2	1576.2	1472.7	1376.1	1291.9	1218.7	1156.6
32.5°	2117.3	1947.5	1870.2	1792.9	1650.7	1523.8	1418.9	1329.2	1245.0	1169.0	1109.7
35°	2067.6	1895.0	1810.8	1729.4	1587.3	1458.9	1362.3	1268.4	1189.7	1116.6	1060.0
37.5°	2017.9	1834.3	1755.6	1661.8	1530.7	1396.8	1297.4	1213.2	1140.1	1064.1	1002.0
40°	1946.1	1762.5	1675.6	1595.5	1442.3	1316.7	1225.6	1149.7	1078.0	1006.2	953.7
42.5°	1848.1	1683.9	1594.2	1505.8	1362.3	1238.1	1149.7	1082.1	1014.5	955.1	897.1
45°	1748.7	1588.6	1508.6	1429.9	1273.9	1156.6	1075.2	1013.1	956.5	891.6	844.7
47.5°	1628.7	1493.4	1413.3	1336.1	1188.4	1071.1	996.5	938.5	886.1	832.3	788.1
50°	1505.8	1388.5	1315.3	1235.3	1094.5	988.2	915.1	866.8	824.0	772.9	737.0
52.5°	1373.3	1271.2	1209.1	1131.8	1007.6	909.6	835.0	786.7	750.8	713.6	681.8
55°	1232.5	1158.0	1091.8	1029.6	912.3	824.0	757.7	715.0	690.1	655.6	628.0
57.5°	1105.6	1033.8	993.8	923.4	821.2	734.3	681.8	645.9	617.0	596.3	574.2
60°	973.1	915.1	870.9	819.9	730.1	657.0	601.8	581.1	550.7	535.5	525.9
62.5°	846.1	804.7	763.3	724.6	644.6	575.6	534.1	507.9	490.0	474.8	466.5
65°	726.0	687.3	658.4	623.9	557.6	502.4	463.8	443.1	425.1	421.0	411.3
67.5°	608.7	592.1	560.4	532.8	476.2	433.4	404.4	378.2	368.5	364.4	356.1
70°	509.3	490.0	465.1	441.7	398.9	361.6	335.4	325.7	311.9	310.5	300.9
72.5°	419.6	396.1	378.2	360.2	328.5	295.4	281.6	267.8	260.9	255.3	251.2
75°	332.6	316.1	303.6	288.5	260.9	238.8	219.5	213.9	209.8	208.4	205.7
77.5°	248.4	237.4	231.9	216.7	197.4	178.0	169.8	161.5	161.5	158.7	160.1
80°	176.7	169.8	162.9	154.6	138.0	129.7	122.8	117.3	114.6	113.2	114.6
82.5°	111.8	107.7	106.3	100.8	89.7	85.6	80.1	75.9	75.9	75.9	75.9
85°	62.1	62.1	62.1	53.8	49.7	45.5	42.8	41.4	41.4	41.4	42.8
87.5°	26.2	26.2	22.1	22.1	20.7	17.9	16.6	16.6	17.9	17.9	19.3
90°	9.5	8.5	8.0	7.3	5.9	4.5	3.1	1.7	3.1	4.5	5.9
92.5°	9.0	8.0	7.5	7.6	7.9	8.1	8.4	8.6	8.4	8.1	7.9
95°	12.3	12.2	12.1	14.3	18.6	22.9	27.3	31.6	27.3	22.9	18.6
97.5°	52.8	66.2	72.9	71.5	68.7	65.9	63.1	60.3	63.1	65.9	68.7
100°	78.1	95.7	104.5	103.4	101.1	98.8	96.5	94.2	96.5	98.8	101.1
102.5°	141.2	139.7	138.9	138.1	136.6	135.1	133.6	132.1	133.6	135.1	136.6
105°	177.2	176.6	176.3	175.9	175.1	174.4	173.6	172.8	173.6	174.4	175.1
107.5°	213.2	212.3	211.9	211.7	211.3	210.9	210.5	210.1	210.5	210.9	211.3
110°	250.9	250.2	249.8	249.6	249.2	248.8	248.4	248.0	248.4	248.8	249.2

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	288.6	288.3	288.2	287.8	287.1	286.3	285.6	284.8	285.6	286.3	287.1
115°	324.2	324.3	324.4	324.2	323.8	323.5	323.1	322.7	323.1	323.5	323.8
117.5°	359.5	359.1	358.9	358.6	358.1	357.6	357.1	356.6	357.1	357.6	358.1
120°	393.1	393.2	393.3	393.0	392.5	392.0	391.5	391.0	391.5	392.0	392.5
122.5°	424.7	424.4	424.3	424.2	423.9	423.7	423.4	423.2	423.4	423.7	423.9
125°	455.5	455.8	455.9	455.6	455.1	454.6	454.1	453.6	454.1	454.6	455.1
127.5°	484.4	483.7	483.4	483.3	483.2	483.1	483.0	482.9	483.0	483.1	483.2
130°	512.2	511.8	511.6	511.5	511.4	511.3	511.1	511.0	511.1	511.3	511.4
132.5°	538.8	538.3	538.0	537.9	537.6	537.3	537.1	536.8	537.1	537.3	537.6
135°	562.9	562.4	562.1	562.2	562.3	562.4	562.6	562.7	562.6	562.4	562.3
137.5°	586.6	586.0	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7	585.7
140°	609.6	609.3	609.2	609.1	608.8	608.5	608.3	608.0	608.3	608.5	608.8
142.5°	630.6	630.5	630.4	630.1	629.6	629.1	628.6	628.1	628.6	629.1	629.6
145°	650.5	650.5	650.5	650.3	649.9	649.6	649.2	648.8	649.2	649.6	649.9
147.5°	668.1	668.2	668.3	667.9	667.2	666.4	665.7	664.9	665.7	666.4	667.2
150°	684.8	684.9	685.0	684.7	684.2	683.7	683.2	682.7	683.2	683.7	684.2
152.5°	698.9	699.2	699.3	699.1	698.7	698.4	698.0	697.6	698.0	698.4	698.7
155°	711.4	711.8	712.0	711.9	711.8	711.7	711.5	711.4	711.5	711.7	711.8
157.5°	722.7	723.2	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
160°	731.9	732.0	732.1	732.3	732.7	733.0	733.4	733.8	733.4	733.0	732.7
162.5°	740.5	740.6	740.7	741.0	741.5	742.0	742.5	743.0	742.5	742.0	741.5
165°	747.6	747.6	747.6	747.9	748.5	749.2	749.8	750.4	749.8	749.2	748.5
167.5°	753.7	753.8	753.9	754.2	754.9	755.5	756.2	756.8	756.2	755.5	754.9
170°	758.7	758.6	758.5	758.9	759.6	760.4	761.1	761.9	761.1	760.4	759.6
172.5°	762.1	762.0	761.9	762.3	763.1	763.8	764.6	765.4	764.6	763.8	763.1
175°	764.4	764.3	764.2	764.6	765.4	766.1	766.9	767.7	766.9	766.1	765.4
177.5°	765.8	765.5	765.4	765.8	766.7	767.6	768.5	769.4	768.5	767.6	766.7
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1641.1	1635.6	1638.3	1624.5	1612.1	1594.2	1579.0	1576.2	1573.5	1581.7	1576.2
5°	1594.2	1587.3	1580.4	1563.8	1538.9	1523.8	1501.7	1500.3	1492.0	1479.6	1482.4
7.5°	1543.1	1538.9	1529.3	1503.1	1481.0	1454.8	1436.8	1421.6	1414.7	1403.7	1399.5
10°	1501.7	1486.5	1478.2	1449.2	1423.0	1395.4	1371.9	1360.9	1348.5	1338.8	1331.9
12.5°	1445.1	1440.9	1417.5	1394.0	1371.9	1340.2	1322.3	1290.5	1273.9	1282.2	1279.5
15°	1407.8	1388.5	1383.0	1349.9	1312.6	1291.9	1258.8	1238.1	1231.2	1218.7	1203.6
17.5°	1358.1	1345.7	1326.4	1296.0	1253.2	1224.3	1200.8	1181.5	1173.2	1156.6	1144.2
20°	1311.2	1290.5	1275.3	1247.7	1206.3	1169.0	1140.1	1127.6	1106.9	1093.1	1086.2
22.5°	1268.4	1253.2	1231.2	1189.7	1153.9	1118.0	1083.5	1065.5	1046.2	1037.9	1026.9
25°	1216.0	1191.1	1175.9	1130.4	1091.8	1062.8	1031.0	1007.6	996.5	982.7	980.0
27.5°	1164.9	1141.4	1123.5	1083.5	1036.5	999.3	980.0	963.4	944.1	944.1	937.2
30°	1113.8	1097.3	1069.7	1031.0	986.9	951.0	928.9	913.7	906.8	901.3	899.9
32.5°	1062.8	1040.7	1024.1	971.7	938.5	905.4	888.9	876.4	868.2	866.8	868.2
35°	1010.3	985.5	968.9	922.0	888.9	858.5	851.6	840.6	836.4	835.0	841.9
37.5°	955.1	935.8	915.1	876.4	839.2	821.2	807.4	803.3	801.9	810.2	812.9
40°	904.0	887.5	868.2	826.8	799.1	779.8	772.9	768.8	774.3	782.6	786.7
42.5°	855.7	832.3	817.1	779.8	755.0	743.9	735.7	735.7	741.2	750.8	757.7
45°	804.7	786.7	771.5	738.4	716.3	703.9	702.5	703.9	710.8	717.7	726.0
47.5°	755.0	737.0	720.5	692.9	673.5	666.6	665.3	666.6	677.7	687.3	697.0
50°	709.4	690.1	674.9	648.7	633.5	625.2	626.6	633.5	641.8	655.6	668.0
52.5°	655.6	641.8	628.0	604.5	590.7	585.2	589.4	594.9	610.1	619.7	634.9
55°	603.2	590.7	579.7	561.7	550.7	546.6	549.3	557.6	570.0	586.6	604.5
57.5°	554.8	541.0	530.0	517.6	505.2	506.5	507.9	519.0	534.1	549.3	570.0
60°	501.0	492.7	483.1	467.9	462.4	462.4	466.5	478.9	492.7	517.6	535.5
62.5°	452.7	441.7	434.8	425.1	416.8	418.2	427.9	438.9	455.5	476.2	499.6
65°	403.0	390.6	385.1	376.8	374.0	375.4	382.3	398.9	416.8	434.8	456.9
67.5°	347.8	343.7	338.2	329.9	332.6	334.0	340.9	354.7	374.0	392.0	416.8
70°	300.9	292.6	291.2	284.3	284.3	288.5	302.3	311.9	329.9	349.2	375.4
72.5°	251.2	244.3	244.3	238.8	242.9	247.1	254.0	267.8	284.3	303.6	325.7
75°	200.1	197.4	200.1	197.4	197.4	204.3	212.6	223.6	241.5	262.2	280.2
77.5°	154.6	154.6	153.2	157.3	157.3	161.5	172.5	183.6	197.4	213.9	233.3
80°	113.2	113.2	113.2	117.3	121.5	121.5	128.4	142.2	154.6	165.6	183.6
82.5°	77.3	77.3	77.3	80.1	85.6	85.6	93.9	102.1	115.9	125.6	133.9
85°	46.9	46.9	45.5	48.3	49.7	53.8	60.7	66.3	73.2	81.4	89.7
87.5°	20.7	20.7	22.1	23.5	24.8	27.6	30.4	33.1	40.0	42.8	46.9
90°	7.3	8.0	8.5	9.5	10.6	11.6	12.6	13.4	14.2	14.9	15.7
92.5°	7.6	7.5	8.0	9.0	10.1	11.1	12.1	12.9	13.6	14.4	15.1
95°	14.3	12.1	12.2	12.3	12.4	12.5	12.6	13.4	14.2	14.9	15.7
97.5°	71.5	72.9	66.2	52.8	39.4	26.0	12.6	13.2	13.9	14.5	15.2
100°	103.4	104.5	95.7	78.1	60.5	42.9	25.3	23.1	20.9	18.8	16.6
102.5°	138.1	138.9	139.7	141.2	142.7	144.3	145.8	117.1	88.4	59.7	31.0
105°	175.9	176.3	176.6	177.2	177.9	178.5	179.1	180.3	181.4	182.6	183.7
107.5°	211.7	211.9	212.3	213.2	214.1	215.0	215.9	216.5	217.2	217.8	218.5
110°	249.6	249.8	250.2	250.9	251.7	252.4	253.2	253.5	253.7	254.0	254.3

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	287.8	288.2	288.3	288.6	288.9	289.1	289.4	289.3	289.1	289.0	288.9
115°	324.2	324.4	324.3	324.2	324.1	323.9	323.8	324.1	324.3	324.6	324.9
117.5°	358.6	358.9	359.1	359.5	359.8	360.2	360.6	360.5	360.3	360.2	360.1
120°	393.0	393.3	393.2	393.1	393.0	392.8	392.7	393.0	393.2	393.5	393.8
122.5°	424.2	424.3	424.4	424.7	425.0	425.2	425.5	425.6	425.7	425.8	425.9
125°	455.6	455.9	455.8	455.5	455.2	455.0	454.7	455.1	455.5	455.9	456.3
127.5°	483.3	483.4	483.7	484.4	485.0	485.7	486.3	486.2	486.0	485.9	485.8
130°	511.5	511.6	511.8	512.2	512.5	512.9	513.3	513.4	513.6	513.7	513.8
132.5°	537.9	538.0	538.3	538.8	539.3	539.8	540.3	540.4	540.6	540.7	540.8
135°	562.2	562.1	562.4	562.9	563.4	563.9	564.4	564.7	564.9	565.2	565.5
137.5°	585.7	585.7	586.0	586.6	587.3	587.9	588.5	588.8	589.0	589.3	589.6
140°	609.1	609.2	609.3	609.6	609.8	610.1	610.3	610.7	611.1	611.5	611.9
142.5°	630.1	630.4	630.5	630.6	630.7	630.9	631.0	631.3	631.5	631.8	632.1
145°	650.3	650.5	650.5	650.5	650.5	650.5	650.5	650.6	650.8	650.9	651.0
147.5°	667.9	668.3	668.2	668.1	668.0	667.9	667.8	667.9	668.0	668.1	668.2
150°	684.7	685.0	684.9	684.8	684.7	684.5	684.4	684.4	684.4	684.4	684.4
152.5°	699.1	699.3	699.2	698.9	698.7	698.4	698.2	698.4	698.7	698.9	699.2
155°	711.9	712.0	711.8	711.4	711.0	710.6	710.2	710.7	711.2	711.7	712.2
157.5°	723.5	723.5	723.2	722.7	722.2	721.7	721.2	721.8	722.4	723.1	723.7
160°	732.3	732.1	732.0	731.9	731.8	731.6	731.5	732.3	733.0	733.8	734.5
162.5°	741.0	740.7	740.6	740.5	740.4	740.2	740.1	740.9	741.6	742.4	743.1
165°	747.9	747.6	747.6	747.6	747.6	747.6	747.6	748.6	749.6	750.7	751.7
167.5°	754.2	753.9	753.8	753.7	753.6	753.4	753.3	754.5	755.6	756.8	757.9
170°	758.9	758.5	758.6	758.7	758.8	758.9	759.0	760.0	761.0	762.1	763.1
172.5°	762.3	761.9	762.0	762.1	762.2	762.4	762.5	763.5	764.5	765.6	766.6
175°	764.6	764.2	764.3	764.4	764.5	764.7	764.8	766.0	767.1	768.3	769.4
177.5°	765.8	765.4	765.5	765.8	766.0	766.3	766.5	767.5	768.5	769.6	770.6
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1572.1	1570.7	1563.8	1566.5	1558.3	1561.0	1565.2	1566.5	1572.1	1567.9	1566.5
5°	1475.5	1472.7	1468.6	1464.4	1463.0	1468.6	1458.9	1461.7	1464.4	1468.6	1474.1
7.5°	1396.8	1395.4	1391.3	1384.4	1381.6	1378.8	1380.2	1389.9	1388.5	1387.1	1396.8
10°	1325.0	1326.4	1318.1	1316.7	1308.4	1307.1	1308.4	1311.2	1315.3	1320.9	1322.3
12.5°	1250.5	1268.4	1253.2	1247.7	1235.3	1242.2	1245.0	1232.5	1239.4	1243.6	1264.3
15°	1203.6	1195.3	1185.6	1185.6	1180.1	1177.3	1170.4	1180.1	1185.6	1193.9	1191.1
17.5°	1138.7	1124.9	1119.4	1113.8	1115.2	1120.7	1105.6	1127.6	1127.6	1131.8	1124.9
20°	1082.1	1071.1	1064.1	1061.4	1057.2	1054.5	1053.1	1058.6	1066.9	1069.7	1076.6
22.5°	1022.7	1022.7	1011.7	1007.6	1004.8	1000.7	1007.6	1003.4	1008.9	1014.5	1025.5
25°	973.1	973.1	968.9	963.4	959.3	956.5	960.6	959.3	963.4	970.3	973.1
27.5°	933.0	928.9	927.5	926.1	924.7	926.1	924.7	928.9	933.0	934.4	931.6
30°	898.5	894.4	895.8	895.8	897.1	895.8	894.4	898.5	899.9	897.1	898.5
32.5°	866.8	866.8	869.5	870.9	870.9	872.3	873.7	870.9	872.3	868.2	869.5
35°	840.6	843.3	846.1	847.5	848.8	847.5	850.2	848.8	846.1	843.3	841.9
37.5°	814.3	817.1	822.6	824.0	828.1	829.5	826.8	826.8	825.4	819.9	817.1
40°	786.7	789.5	796.4	800.5	803.3	807.4	804.7	804.7	799.1	793.6	789.5
42.5°	760.5	766.0	772.9	777.1	782.6	782.6	782.6	779.8	772.9	767.4	763.3
45°	734.3	735.7	745.3	752.2	757.7	757.7	757.7	753.6	749.5	738.4	732.9
47.5°	705.3	709.4	720.5	727.4	732.9	734.3	734.3	730.1	721.9	712.2	705.3
50°	673.5	680.4	692.9	702.5	709.4	712.2	708.1	705.3	695.6	684.6	676.3
52.5°	643.2	651.5	666.6	674.9	684.6	686.0	684.6	680.4	669.4	654.2	647.3
55°	612.8	619.7	636.3	650.1	658.4	661.1	658.4	651.5	637.7	622.5	615.6
57.5°	579.7	589.4	607.3	621.1	630.8	632.1	629.4	622.5	611.4	592.1	582.5
60°	545.2	557.6	575.6	589.4	601.8	603.2	600.4	590.7	576.9	557.6	549.3
62.5°	510.7	520.3	541.0	556.2	565.9	572.8	567.3	557.6	543.8	524.5	512.1
65°	470.7	484.5	502.4	516.2	527.2	528.6	525.9	517.6	502.4	481.7	472.0
67.5°	432.0	441.7	459.6	477.6	481.7	485.8	481.7	473.4	461.0	443.1	429.2
70°	385.1	393.4	415.4	427.9	433.4	437.5	434.8	426.5	415.4	398.9	387.8
72.5°	338.2	345.1	365.8	375.4	386.5	385.1	383.7	378.2	363.0	352.0	345.1
75°	288.5	296.7	310.5	323.0	327.1	327.1	327.1	323.0	313.3	295.4	288.5
77.5°	242.9	247.1	258.1	265.0	269.1	270.5	269.1	262.2	256.7	244.3	240.2
80°	186.3	197.4	205.7	207.0	212.6	212.6	212.6	209.8	204.3	191.9	190.5
82.5°	140.8	143.5	151.8	156.0	158.7	157.3	157.3	151.8	150.4	143.5	140.8
85°	95.2	99.4	98.0	103.5	104.9	102.1	102.1	104.9	98.0	99.4	95.2
87.5°	52.4	52.4	55.2	53.8	59.3	59.3	56.6	58.0	55.2	53.8	52.4
90°	16.1	16.2	16.5	16.7	17.0	17.2	17.0	16.7	16.5	16.2	16.1
92.5°	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
95°	16.1	16.2	16.3	16.4	16.6	16.7	16.6	16.4	16.3	16.2	16.1
97.5°	15.5	15.6	15.7	15.8	16.0	16.1	16.0	15.8	15.7	15.6	15.5
100°	15.5	15.6	15.7	15.8	16.0	16.1	16.0	15.8	15.7	15.6	15.5
102.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
105°	184.3	182.0	177.4	172.8	168.2	163.6	168.2	172.8	177.4	182.0	184.3
107.5°	218.8	219.1	219.6	220.1	220.6	221.1	220.6	220.1	219.6	219.1	218.8
110°	254.4	254.6	255.0	255.3	255.7	256.1	255.7	255.3	255.0	254.6	254.4

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	288.8	289.1	289.6	290.1	290.6	291.1	290.6	290.1	289.6	289.1	288.8
115°	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0	325.0
117.5°	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0	360.0
120°	393.9	393.8	393.5	393.2	393.0	392.7	393.0	393.2	393.5	393.8	393.9
122.5°	426.0	425.9	425.6	425.4	425.1	424.9	425.1	425.4	425.6	425.9	426.0
125°	456.5	456.6	456.7	456.8	456.9	457.0	456.9	456.8	456.7	456.6	456.5
127.5°	485.7	485.6	485.5	485.4	485.3	485.2	485.3	485.4	485.5	485.6	485.7
130°	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9	513.9
132.5°	540.9	540.8	540.7	540.6	540.4	540.3	540.4	540.6	540.7	540.8	540.9
135°	565.6	565.7	566.0	566.2	566.5	566.7	566.5	566.2	566.0	565.7	565.6
137.5°	589.7	589.6	589.5	589.4	589.2	589.1	589.2	589.4	589.5	589.6	589.7
140°	612.1	612.2	612.3	612.4	612.5	612.6	612.5	612.4	612.3	612.2	612.1
142.5°	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2	632.2
145°	651.1	651.2	651.5	651.8	652.0	652.3	652.0	651.8	651.5	651.2	651.1
147.5°	668.3	668.4	668.5	668.6	668.8	668.9	668.8	668.6	668.5	668.4	668.3
150°	684.4	684.5	684.6	684.7	684.9	685.0	684.9	684.7	684.6	684.5	684.4
152.5°	699.3	699.2	699.1	699.0	698.9	698.8	698.9	699.0	699.1	699.2	699.3
155°	712.5	712.3	711.9	711.6	711.2	710.8	711.2	711.6	711.9	712.3	712.5
157.5°	724.0	723.7	723.1	722.4	721.8	721.2	721.8	722.4	723.1	723.7	724.0
160°	734.9	734.5	733.8	733.0	732.3	731.5	732.3	733.0	733.8	734.5	734.9
162.5°	743.5	743.1	742.2	741.3	740.4	739.5	740.4	741.3	742.2	743.1	743.5
165°	752.2	751.6	750.5	749.3	748.2	747.0	748.2	749.3	750.5	751.6	752.2
167.5°	758.5	757.9	756.6	755.3	754.0	752.7	754.0	755.3	756.6	757.9	758.5
170°	763.6	763.0	761.7	760.4	759.2	757.9	759.2	760.4	761.7	763.0	763.6
172.5°	767.1	766.4	765.0	763.6	762.2	760.8	762.2	763.6	765.0	766.4	767.1
175°	770.0	769.2	767.7	766.2	764.6	763.1	764.6	766.2	767.7	769.2	770.0
177.5°	771.1	770.3	768.8	767.3	765.7	764.2	765.7	767.3	768.8	770.3	771.1
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9	1665.9
2.5°	1566.5	1574.8	1566.5	1572.1	1574.8	1581.7	1584.5	1596.9	1601.1	1610.7	1610.7
5°	1472.7	1476.8	1478.2	1483.7	1489.3	1503.1	1512.7	1530.7	1551.4	1554.1	1566.5
7.5°	1396.8	1403.7	1414.7	1410.6	1420.2	1440.9	1453.4	1475.5	1496.2	1507.2	1522.4
10°	1329.2	1337.4	1341.6	1345.7	1363.7	1381.6	1400.9	1416.1	1443.7	1460.3	1472.7
12.5°	1273.9	1267.0	1275.3	1290.5	1311.2	1322.3	1348.5	1371.9	1392.6	1410.6	1421.6
15°	1202.2	1207.7	1216.0	1242.2	1247.7	1275.3	1285.0	1311.2	1349.9	1366.4	1380.2
17.5°	1133.2	1151.1	1167.7	1177.3	1193.9	1216.0	1243.6	1272.6	1297.4	1316.7	1333.3
20°	1078.0	1095.9	1105.6	1112.5	1129.0	1159.4	1185.6	1221.5	1253.2	1268.4	1290.5
22.5°	1033.8	1033.8	1047.6	1068.3	1078.0	1106.9	1129.0	1167.7	1202.2	1221.5	1242.2
25°	978.6	986.9	997.9	1015.8	1029.6	1053.1	1084.9	1118.0	1155.2	1171.8	1198.0
27.5°	933.0	942.7	957.9	962.0	975.8	996.5	1029.6	1065.5	1104.2	1122.1	1144.2
30°	898.5	904.0	909.6	917.8	930.3	948.2	975.8	1007.6	1054.5	1068.3	1095.9
32.5°	868.2	870.9	873.7	880.6	887.5	905.4	927.5	962.0	1000.7	1021.4	1046.2
35°	840.6	837.8	839.2	843.3	850.2	857.1	880.6	909.6	945.5	970.3	989.6
37.5°	814.3	808.8	807.4	807.4	810.2	818.5	836.4	861.3	899.9	920.6	939.9
40°	785.3	779.8	777.1	775.7	774.3	779.8	793.6	818.5	848.8	868.2	890.2
42.5°	757.7	752.2	745.3	743.9	741.2	743.9	753.6	777.1	803.3	822.6	840.6
45°	730.1	720.5	712.2	706.7	708.1	703.9	710.8	728.8	759.1	771.5	789.5
47.5°	699.8	688.7	677.7	672.2	666.6	669.4	672.2	687.3	713.6	726.0	743.9
50°	670.8	655.6	643.2	636.3	632.1	629.4	632.1	647.3	666.6	677.7	692.9
52.5°	637.7	622.5	610.1	599.0	593.5	589.4	590.7	604.5	622.5	633.5	648.7
55°	607.3	588.0	571.4	557.6	553.5	552.1	550.7	560.4	575.6	586.6	599.0
57.5°	572.8	553.5	535.5	519.0	510.7	509.3	509.3	512.1	531.4	539.7	546.6
60°	538.3	517.6	498.3	483.1	470.7	466.5	465.1	470.7	480.3	488.6	498.3
62.5°	499.6	478.9	455.5	441.7	429.2	418.2	422.3	423.7	437.5	441.7	450.0
65°	462.4	438.9	419.6	397.5	383.7	376.8	374.0	376.8	387.8	389.2	394.7
67.5°	419.6	397.5	374.0	358.9	346.4	334.0	331.3	331.3	336.8	340.9	347.8
70°	378.2	356.1	329.9	313.3	300.9	289.8	285.7	284.3	288.5	291.2	298.1
72.5°	329.9	307.8	288.5	270.5	255.3	247.1	242.9	240.2	244.3	247.1	248.4
75°	278.8	260.9	241.5	223.6	213.9	205.7	200.1	196.0	198.8	198.8	198.8
77.5°	230.5	212.6	197.4	184.9	172.5	162.9	158.7	154.6	156.0	156.0	158.7
80°	179.4	167.0	154.6	143.5	132.5	124.2	121.5	117.3	114.6	113.2	113.2
82.5°	132.5	122.8	111.8	102.1	96.6	88.3	85.6	80.1	80.1	78.7	78.7
85°	88.3	82.8	71.8	64.9	60.7	56.6	53.8	51.1	46.9	46.9	45.5
87.5°	46.9	44.2	41.4	33.1	33.1	29.0	27.6	26.2	22.1	23.5	23.5
90°	15.7	14.9	14.2	13.4	12.6	11.6	10.6	9.5	8.5	8.0	7.3
92.5°	15.1	14.4	13.6	12.9	12.1	11.1	10.1	9.0	8.0	7.5	7.6
95°	15.7	14.9	14.2	13.4	12.6	12.5	12.4	12.3	12.2	12.1	14.3
97.5°	15.2	14.5	13.9	13.2	12.6	26.0	39.4	52.8	66.2	72.9	71.5
100°	16.6	18.8	20.9	23.1	25.3	42.9	60.5	78.1	95.7	104.5	103.4
102.5°	31.0	59.7	88.4	117.1	145.8	144.3	142.7	141.2	139.7	138.9	138.1
105°	183.7	182.6	181.4	180.3	179.1	178.5	177.9	177.2	176.6	176.3	175.9
107.5°	218.5	217.8	217.2	216.5	215.9	215.0	214.1	213.2	212.3	211.9	211.7
110°	254.3	254.0	253.7	253.5	253.2	252.4	251.7	250.9	250.2	249.8	249.6

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	288.9	289.0	289.1	289.3	289.4	289.1	288.9	288.6	288.3	288.2	287.8
115°	324.9	324.6	324.3	324.1	323.8	323.9	324.1	324.2	324.3	324.4	324.2
117.5°	360.1	360.2	360.3	360.5	360.6	360.2	359.8	359.5	359.1	358.9	358.6
120°	393.8	393.5	393.2	393.0	392.7	392.8	393.0	393.1	393.2	393.3	393.0
122.5°	425.9	425.8	425.7	425.6	425.5	425.2	425.0	424.7	424.4	424.3	424.2
125°	456.3	455.9	455.5	455.1	454.7	455.0	455.2	455.5	455.8	455.9	455.6
127.5°	485.8	485.9	486.0	486.2	486.3	485.7	485.0	484.4	483.7	483.4	483.3
130°	513.8	513.7	513.6	513.4	513.3	512.9	512.5	512.2	511.8	511.6	511.5
132.5°	540.8	540.7	540.6	540.4	540.3	539.8	539.3	538.8	538.3	538.0	537.9
135°	565.5	565.2	564.9	564.7	564.4	563.9	563.4	562.9	562.4	562.1	562.2
137.5°	589.6	589.3	589.0	588.8	588.5	587.9	587.3	586.6	586.0	585.7	585.7
140°	611.9	611.5	611.1	610.7	610.3	610.1	609.8	609.6	609.3	609.2	609.1
142.5°	632.1	631.8	631.5	631.3	631.0	630.9	630.7	630.6	630.5	630.4	630.1
145°	651.0	650.9	650.8	650.6	650.5	650.5	650.5	650.5	650.5	650.5	650.3
147.5°	668.2	668.1	668.0	667.9	667.8	667.9	668.0	668.1	668.2	668.3	667.9
150°	684.4	684.4	684.4	684.4	684.4	684.5	684.7	684.8	684.9	685.0	684.7
152.5°	699.2	698.9	698.7	698.4	698.2	698.4	698.7	698.9	699.2	699.3	699.1
155°	712.2	711.7	711.2	710.7	710.2	710.6	711.0	711.4	711.8	712.0	711.9
157.5°	723.7	723.1	722.4	721.8	721.2	721.7	722.2	722.7	723.2	723.5	723.5
160°	734.5	733.8	733.0	732.3	731.5	731.6	731.8	731.9	732.0	732.1	732.3
162.5°	743.1	742.4	741.6	740.9	740.1	740.2	740.4	740.5	740.6	740.7	741.0
165°	751.7	750.7	749.6	748.6	747.6	747.6	747.6	747.6	747.6	747.6	747.9
167.5°	757.9	756.8	755.6	754.5	753.3	753.4	753.6	753.7	753.8	753.9	754.2
170°	763.1	762.1	761.0	760.0	759.0	758.9	758.8	758.7	758.6	758.5	758.9
172.5°	766.6	765.6	764.5	763.5	762.5	762.4	762.2	762.1	762.0	761.9	762.3
175°	769.4	768.3	767.1	766.0	764.8	764.7	764.5	764.4	764.3	764.2	764.6
177.5°	770.6	769.6	768.5	767.5	766.5	766.3	766.0	765.8	765.5	765.4	765.8
180°	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7	767.7

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1665.9	1665.9	1665.9	1665.9
2.5°	1620.4	1634.2	1646.6	1665.9
5°	1584.5	1603.8	1630.0	1659.0
7.5°	1543.1	1573.5	1608.0	1648.0
10°	1504.4	1538.9	1583.1	1631.4
12.5°	1464.4	1505.8	1554.1	1606.6
15°	1418.9	1460.3	1514.1	1584.5
17.5°	1377.5	1427.1	1485.1	1559.6
20°	1329.2	1376.1	1439.6	1525.1
22.5°	1286.4	1340.2	1410.6	1485.1
25°	1239.4	1286.4	1356.8	1446.5
27.5°	1192.5	1250.5	1318.1	1405.1
30°	1147.0	1195.3	1268.4	1359.5
32.5°	1097.3	1155.2	1222.9	1308.4
35°	1043.4	1098.7	1162.1	1254.6
37.5°	995.1	1049.0	1113.8	1195.3
40°	941.3	997.9	1057.2	1138.7
42.5°	888.9	939.9	999.3	1073.8
45°	837.8	882.0	935.8	1000.7
47.5°	785.3	822.6	872.3	930.3
50°	728.8	768.8	806.0	854.4
52.5°	676.3	710.8	741.2	781.2
55°	625.2	648.7	673.5	703.9
57.5°	571.4	589.4	607.3	639.0
60°	517.6	534.1	543.8	564.5
62.5°	465.1	472.0	484.5	496.9
65°	407.2	416.8	423.7	438.9
67.5°	354.7	358.9	365.8	375.4
70°	299.5	309.2	311.9	318.8
72.5°	252.6	256.7	259.5	260.9
75°	200.1	204.3	207.0	215.3
77.5°	157.3	156.0	161.5	162.9
80°	115.9	111.8	113.2	118.7
82.5°	75.9	77.3	75.9	75.9
85°	46.9	45.5	42.8	44.2
87.5°	20.7	20.7	19.3	19.3
90°	5.9	4.5	3.1	1.7
92.5°	7.9	8.1	8.4	8.6
95°	18.6	22.9	27.3	31.6
97.5°	68.7	65.9	63.1	60.3
100°	101.1	98.8	96.5	94.2
102.5°	136.6	135.1	133.6	132.1
105°	175.1	174.4	173.6	172.8
107.5°	211.3	210.9	210.5	210.1
110°	249.2	248.8	248.4	248.0

TEST NUMBER: P1012888

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_3500K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	287.1	286.3	285.6	284.8
115°	323.8	323.5	323.1	322.7
117.5°	358.1	357.6	357.1	356.6
120°	392.5	392.0	391.5	391.0
122.5°	423.9	423.7	423.4	423.2
125°	455.1	454.6	454.1	453.6
127.5°	483.2	483.1	483.0	482.9
130°	511.4	511.3	511.1	511.0
132.5°	537.6	537.3	537.1	536.8
135°	562.3	562.4	562.6	562.7
137.5°	585.7	585.7	585.7	585.7
140°	608.8	608.5	608.3	608.0
142.5°	629.6	629.1	628.6	628.1
145°	649.9	649.6	649.2	648.8
147.5°	667.2	666.4	665.7	664.9
150°	684.2	683.7	683.2	682.7
152.5°	698.7	698.4	698.0	697.6
155°	711.8	711.7	711.5	711.4
157.5°	723.5	723.5	723.5	723.5
160°	732.7	733.0	733.4	733.8
162.5°	741.5	742.0	742.5	743.0
165°	748.5	749.2	749.8	750.4
167.5°	754.9	755.5	756.2	756.8
170°	759.6	760.4	761.1	761.9
172.5°	763.1	763.8	764.6	765.4
175°	765.4	766.1	766.9	767.7
177.5°	766.7	767.6	768.5	769.4
180°	767.7	767.7	767.7	767.7

(END OF REPORT)