

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: P1012886

Luminaire Tested: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012886
REPORT IS A COMBINATION OF REPORTS P995308 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

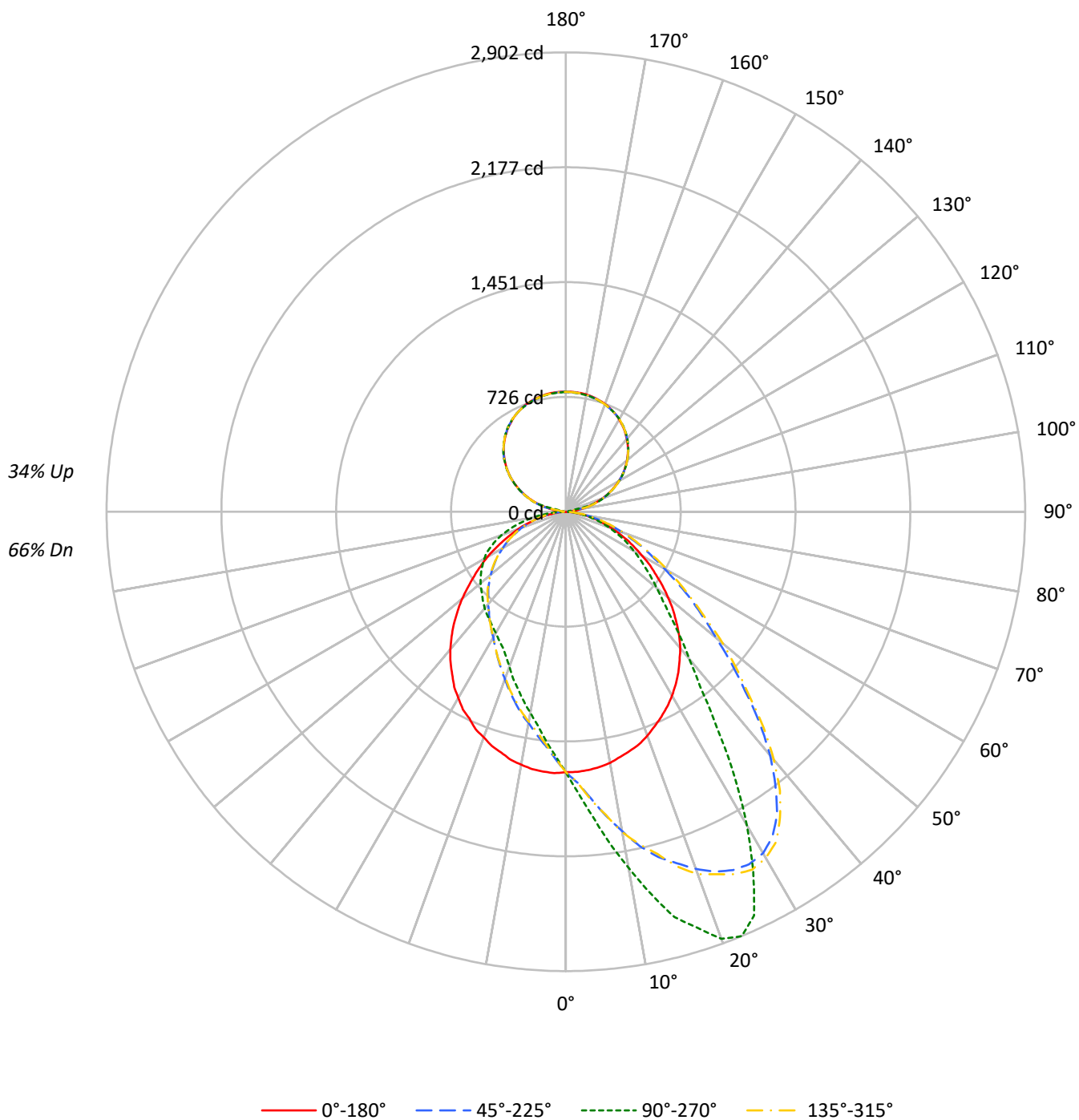
Lumens per Lamp: N/A
Luminaire Lumens: 6884.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (A_{in}): 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: P1012886

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	92	92	92	81	81	81	71	71	71	66		
1	102	97	93	90	96	92	88	85	81	79	76	72	70	68	63	62	60	56		
2	93	85	79	74	87	81	75	71	72	67	64	63	60	57	56	53	51	48		
3	85	75	68	62	80	71	65	59	64	58	54	56	52	49	50	47	44	41		
4	78	67	59	53	73	63	56	51	57	51	46	50	46	42	45	41	38	35		
5	72	60	52	46	67	57	49	44	51	45	40	45	41	37	40	37	33	31		
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30	27		
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26	24		
8	57	45	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24	22		
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	19		
10	50	37	30	25	47	36	29	24	33	27	23	29	25	21	27	23	20	18		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13410	13410	13410	13410
5°	13376	15385	13455	11560
10°	13277	17950	13377	10142
15°	13117	20692	13209	9075
20°	12948	22438	13041	8136
25°	12699	22181	12820	7444
30°	12457	18333	12609	7087
35°	12117	13662	12250	6870
40°	11720	10291	11834	6765
45°	11114	8260	11252	6620
50°	10390	6959	10541	6553
55°	9539	6057	9688	6476
60°	8712	5334	8967	6368
65°	7935	4589	8010	6102
70°	7021	3776	7175	5619
75°	6127	2901	6086	4774
80°	4820	1907	4763	3624
85°	3173	857	2976	2113

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 145°

Vertical Angle: 45°

Luminance: 17340 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	2.3
10°-20°	494.0	7.2
20°-30°	784.8	11.4
30°-40°	872.1	12.7
40°-50°	793.0	11.5
50°-60°	648.1	9.4
60°-70°	462.6	6.7
70°-80°	254.6	3.7
80°-90°	70.4	1.0
90°-100°	25.2	0.4
100°-110°	165.6	2.4
110°-120°	316.3	4.6
120°-130°	401.5	5.8
130°-140°	429.5	6.2
140°-150°	401.6	5.8
150°-160°	323.9	4.7
160°-170°	208.9	3.0
170°-180°	72.0	1.0
0°-30°	1438.9	20.9
0°-40°	2310.9	33.6
0°-60°	3752.1	54.5
0°-90°	4539.6	65.9
90°-120°	507.0	7.4
90°-150°	1739.7	25.3
90°-180°	2344.0	34.1
0°-180°	6884.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1644	1644	1644	1644	1644	
5°	1638	1929	1647	1450	1638	155
15°	1564	2650	1575	1162	1564	441
25°	1428	2814	1442	944	1428	658
35°	1238	1664	1252	837	1238	774
45°	988	933	1000	748	988	762
55°	695	610	706	653	695	625
65°	433	392	437	522	433	428
75°	213	196	211	323	213	223
85°	44	41	41	101	44	51
90°	2	17	2	17	2	4
95°	31	16	31	16	31	38
105°	171	162	171	162	171	179
115°	318	321	318	321	318	313
125°	448	451	448	451	448	400
135°	555	559	555	559	555	428
145°	640	644	640	644	640	400
155°	702	702	702	702	702	324
165°	741	737	741	737	741	209
175°	758	753	758	753	758	72
180°	758	758	758	758	758	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1644.5	1660.9	1667.7	1673.2	1690.9	1696.3	1697.7	1705.9	1712.7	1714.0	1714.0
5°	1637.7	1663.6	1684.1	1703.1	1731.7	1744.0	1759.0	1775.3	1797.1	1810.8	1817.6
7.5°	1626.8	1665.0	1696.3	1729.0	1768.5	1793.1	1806.7	1850.3	1880.3	1904.8	1934.8
10°	1610.5	1659.5	1704.5	1752.2	1808.0	1838.0	1868.0	1921.1	1963.4	2011.1	2049.2
12.5°	1586.0	1650.0	1704.5	1771.3	1840.7	1876.2	1911.6	2004.2	2053.3	2095.5	2163.7
15°	1564.2	1628.2	1705.9	1774.0	1859.8	1913.0	1964.7	2024.7	2102.3	2193.6	2259.0
17.5°	1539.6	1620.0	1692.2	1787.6	1883.0	1933.4	1975.6	2068.3	2177.3	2267.2	2327.2
20°	1505.6	1587.3	1682.7	1783.5	1896.6	1936.1	1992.0	2116.0	2214.1	2302.6	2400.7
22.5°	1466.1	1561.4	1662.3	1759.0	1876.2	1959.3	2020.6	2129.6	2248.1	2350.3	2460.7
25°	1427.9	1531.5	1620.0	1752.2	1876.2	1932.0	2001.5	2131.0	2260.4	2384.4	2497.5
27.5°	1387.0	1483.8	1603.7	1708.6	1848.9	1910.2	1985.2	2126.9	2264.5	2388.5	2509.7
30°	1342.1	1445.6	1545.1	1669.1	1805.3	1884.3	1953.8	2107.8	2248.1	2377.6	2490.7
32.5°	1291.7	1389.8	1496.0	1613.2	1756.3	1836.7	1923.9	2081.9	2231.8	2343.5	2430.7
35°	1238.5	1338.0	1430.6	1550.5	1697.7	1778.1	1862.5	2036.9	2185.5	2276.7	2327.2
37.5°	1179.9	1273.9	1365.2	1483.8	1630.9	1716.8	1802.6	1971.5	2111.9	2188.2	2174.6
40°	1124.1	1208.5	1293.0	1404.7	1558.7	1650.0	1724.9	1895.2	2017.9	2050.6	2005.6
42.5°	1060.0	1132.2	1214.0	1328.4	1478.3	1564.2	1658.2	1813.5	1904.8	1891.2	1814.9
45°	987.8	1051.9	1133.6	1241.2	1393.8	1482.4	1561.4	1708.6	1775.3	1741.3	1602.3
47.5°	918.3	981.0	1047.8	1155.4	1303.9	1378.9	1459.2	1591.4	1629.6	1557.3	1418.4
50°	843.4	895.2	964.7	1066.8	1205.8	1284.8	1351.6	1457.9	1471.5	1382.9	1238.5
52.5°	771.2	814.8	881.5	982.4	1111.8	1174.5	1239.9	1333.9	1323.0	1231.7	1092.7
55°	694.9	735.8	797.1	889.7	1004.2	1064.1	1120.0	1203.1	1179.9	1085.9	964.7
57.5°	630.8	659.5	719.4	805.2	899.3	964.7	1012.3	1077.7	1042.3	948.3	835.2
60°	557.3	592.7	643.1	712.6	805.2	848.8	891.1	934.7	910.2	820.2	719.4
62.5°	490.5	517.8	561.4	628.1	700.3	739.8	784.8	812.1	787.5	704.4	619.9
65°	433.3	455.1	489.1	543.6	613.1	645.8	671.7	697.6	677.2	599.5	538.2
67.5°	370.6	389.7	418.3	461.9	520.5	543.6	568.2	585.9	562.7	510.9	451.0
70°	314.7	328.4	355.6	388.3	429.2	451.0	471.4	489.1	468.7	425.1	380.1
72.5°	257.5	268.4	292.9	316.1	352.9	367.9	382.9	396.5	389.7	348.8	312.0
75°	212.6	216.6	233.0	252.1	275.2	291.6	302.5	310.7	305.2	272.5	249.3
77.5°	160.8	166.2	178.5	193.5	213.9	223.5	230.3	238.4	231.6	205.7	189.4
80°	117.2	118.5	125.4	139.0	152.6	154.0	160.8	171.7	167.6	149.9	137.6
82.5°	74.9	79.0	81.8	89.9	99.5	102.2	106.3	109.0	107.6	96.7	92.7
85°	43.6	43.6	46.3	51.8	54.5	58.6	60.0	61.3	64.0	57.2	53.1
87.5°	19.1	20.4	20.4	21.8	24.5	24.5	25.9	27.3	28.6	27.3	23.2
90°	1.7	3.1	4.5	5.8	7.2	7.9	8.4	9.4	10.5	11.5	12.5
92.5°	8.5	8.3	8.0	7.8	7.5	7.4	7.9	8.9	9.9	10.9	11.9
95°	31.2	26.9	22.6	18.3	14.0	11.9	12.0	12.1	12.2	12.4	12.5
97.5°	59.5	62.3	65.1	67.8	70.6	72.0	65.4	52.2	38.9	25.7	12.5
100°	92.9	95.2	97.4	99.7	102.0	103.1	94.4	77.0	59.7	42.3	24.9
102.5°	130.3	131.8	133.3	134.8	136.3	137.1	137.9	139.4	140.9	142.4	143.9
105°	170.6	171.4	172.1	172.9	173.6	174.0	174.3	174.9	175.6	176.2	176.8
107.5°	207.4	207.8	208.2	208.5	208.9	209.1	209.5	210.4	211.3	212.2	213.1
110°	244.8	245.2	245.6	245.9	246.3	246.5	246.9	247.6	248.4	249.1	249.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	281.1	281.9	282.6	283.4	284.1	284.5	284.6	284.9	285.1	285.4	285.6
115°	318.5	318.9	319.3	319.6	320.0	320.2	320.1	320.0	319.9	319.7	319.6
117.5°	351.9	352.4	352.9	353.4	353.9	354.2	354.4	354.8	355.1	355.5	355.9
120°	385.9	386.4	386.9	387.4	387.9	388.2	388.1	388.0	387.9	387.7	387.6
122.5°	417.6	417.9	418.1	418.4	418.7	418.8	418.9	419.2	419.4	419.7	419.9
125°	447.7	448.2	448.7	449.2	449.7	449.9	449.8	449.5	449.3	449.0	448.8
127.5°	476.6	476.7	476.8	476.9	477.0	477.1	477.4	478.1	478.7	479.4	480.0
130°	504.3	504.4	504.6	504.7	504.8	504.9	505.1	505.5	505.8	506.2	506.6
132.5°	529.8	530.1	530.3	530.6	530.9	531.0	531.2	531.7	532.2	532.7	533.2
135°	555.3	555.2	555.1	555.0	554.9	554.8	555.0	555.5	556.0	556.5	557.0
137.5°	578.0	578.0	578.0	578.0	578.0	578.0	578.3	578.9	579.6	580.2	580.8
140°	600.1	600.3	600.6	600.8	601.1	601.2	601.3	601.6	601.9	602.1	602.4
142.5°	619.9	620.4	620.9	621.4	621.9	622.2	622.3	622.4	622.5	622.7	622.8
145°	640.3	640.7	641.1	641.4	641.8	642.0	642.0	642.0	642.0	642.0	642.0
147.5°	656.2	657.0	657.7	658.5	659.2	659.6	659.5	659.4	659.3	659.1	659.0
150°	673.8	674.3	674.8	675.3	675.8	676.0	675.9	675.8	675.7	675.6	675.5
152.5°	688.5	688.9	689.3	689.6	690.0	690.2	690.1	689.8	689.6	689.3	689.1
155°	702.1	702.2	702.4	702.5	702.6	702.7	702.5	702.1	701.8	701.4	701.0
157.5°	714.0	714.0	714.0	714.0	714.0	714.0	713.7	713.2	712.7	712.2	711.7
160°	724.2	723.8	723.4	723.1	722.7	722.5	722.4	722.3	722.2	722.0	721.9
162.5°	733.3	732.8	732.3	731.8	731.3	731.0	730.9	730.8	730.7	730.5	730.4
165°	740.6	740.0	739.4	738.7	738.1	737.8	737.8	737.8	737.8	737.8	737.8
167.5°	746.9	746.3	745.6	745.0	744.3	744.0	743.9	743.8	743.7	743.6	743.5
170°	752.0	751.2	750.5	749.7	749.0	748.6	748.7	748.8	748.9	749.0	749.1
172.5°	755.4	754.6	753.9	753.1	752.4	752.0	752.1	752.2	752.3	752.4	752.5
175°	757.6	756.8	756.1	755.3	754.6	754.2	754.3	754.4	754.5	754.7	754.8
177.5°	759.3	758.4	757.6	756.7	755.8	755.4	755.5	755.8	756.0	756.3	756.5
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1718.1	1742.6	1753.5	1756.3	1771.3	1761.7	1765.8	1764.4	1775.3	1776.7	1776.7
5°	1843.5	1872.1	1881.6	1895.2	1915.7	1921.1	1917.0	1925.2	1940.2	1929.3	1945.7
7.5°	1975.6	2007.0	2028.8	2058.7	2065.6	2083.3	2094.2	2103.7	2106.4	2107.8	2110.5
10°	2098.3	2137.8	2167.7	2218.2	2229.1	2238.6	2286.3	2267.2	2291.7	2283.6	2286.3
12.5°	2197.7	2275.4	2299.9	2384.4	2392.6	2425.3	2422.5	2452.5	2458.0	2468.9	2458.0
15°	2328.5	2418.4	2458.0	2505.6	2532.9	2571.0	2577.9	2618.7	2635.1	2650.1	2635.1
17.5°	2448.4	2496.1	2596.9	2635.1	2652.8	2673.2	2725.0	2740.0	2764.5	2755.0	2782.2
20°	2508.4	2576.5	2682.8	2748.2	2775.4	2794.5	2838.1	2861.3	2870.8	2870.8	2873.5
22.5°	2561.5	2659.6	2738.6	2813.6	2838.1	2851.7	2877.6	2895.3	2899.4	2902.1	2904.9
25°	2609.2	2697.8	2761.8	2804.0	2813.6	2813.6	2828.6	2817.7	2799.9	2813.6	2821.7
27.5°	2609.2	2671.9	2700.5	2715.5	2715.5	2678.7	2656.9	2611.9	2573.8	2562.9	2587.4
30°	2565.6	2594.2	2554.7	2517.9	2489.3	2464.8	2378.9	2310.8	2297.2	2287.6	2324.4
32.5°	2464.8	2428.0	2350.3	2244.0	2201.8	2145.9	2079.2	2027.4	1996.1	1985.2	1977.0
35°	2286.3	2190.9	2090.1	1947.0	1917.0	1846.2	1754.9	1716.8	1665.0	1663.6	1681.3
37.5°	2091.4	1944.3	1835.3	1699.0	1656.8	1581.9	1496.0	1456.5	1421.1	1393.8	1426.5
40°	1863.9	1735.8	1569.6	1457.9	1397.9	1358.4	1286.2	1242.6	1226.3	1212.6	1233.1
42.5°	1651.4	1511.0	1381.6	1267.1	1218.1	1173.1	1125.4	1083.2	1070.9	1069.6	1084.6
45°	1440.2	1302.6	1182.7	1084.6	1053.2	1026.0	979.6	967.4	946.9	933.3	940.1
47.5°	1271.2	1129.5	1030.1	955.1	927.9	904.7	874.7	854.3	836.6	831.1	839.3
50°	1105.0	1009.6	907.4	844.8	824.3	802.5	779.4	760.3	752.1	746.7	752.1
52.5°	971.5	869.3	799.8	749.4	728.9	712.6	696.2	688.1	677.2	679.9	685.3
55°	851.6	761.6	703.1	666.3	654.0	647.2	626.8	617.2	613.1	610.4	613.1
57.5°	738.5	673.1	629.5	598.1	581.8	577.7	561.4	561.4	557.3	553.2	554.5
60°	648.6	592.7	550.5	525.9	523.2	516.4	505.5	504.1	494.6	498.7	500.0
62.5°	557.3	512.3	483.7	468.7	459.2	456.4	449.6	448.3	444.2	445.5	442.8
65°	485.1	448.3	419.7	407.4	403.3	401.9	396.5	392.4	389.7	392.4	389.7
67.5°	412.8	388.3	366.5	354.3	348.8	347.4	343.4	340.6	342.0	337.9	340.6
70°	344.7	320.2	306.6	299.8	297.0	292.9	292.9	292.9	292.9	290.2	288.9
72.5°	290.2	265.7	256.2	252.1	249.3	248.0	243.9	245.3	243.9	242.5	248.0
75°	230.3	215.3	205.7	201.7	204.4	200.3	196.2	198.9	194.8	196.2	201.7
77.5°	174.4	167.6	162.1	159.4	156.7	154.0	154.0	151.2	151.2	151.2	151.2
80°	126.7	125.4	115.8	114.5	114.5	111.7	111.7	111.7	111.7	110.4	111.7
82.5°	84.5	83.1	80.4	79.0	76.3	77.7	77.7	74.9	74.9	73.6	74.9
85°	49.1	49.1	46.3	45.0	43.6	45.0	42.2	40.9	42.2	40.9	42.2
87.5°	23.2	20.4	21.8	20.4	17.7	19.1	16.4	17.7	16.4	15.0	17.7
90°	13.3	14.0	14.8	15.5	15.9	16.0	16.3	16.5	16.8	17.0	16.8
92.5°	12.7	13.4	14.2	14.9	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	13.3	14.0	14.8	15.5	15.9	16.0	16.1	16.2	16.3	16.4	16.3
97.5°	13.1	13.7	14.4	15.0	15.3	15.4	15.5	15.6	15.8	15.9	15.8
100°	22.8	20.6	18.5	16.4	15.3	15.4	15.5	15.6	15.8	15.9	15.8
102.5°	115.6	87.2	58.9	30.6	16.4	16.4	16.4	16.4	16.4	16.4	16.4
105°	177.9	179.1	180.2	181.3	181.9	179.6	175.1	170.6	166.0	161.5	166.0
107.5°	213.7	214.3	215.0	215.6	215.9	216.2	216.7	217.2	217.7	218.2	217.7
110°	250.1	250.4	250.6	250.9	251.0	251.2	251.6	251.9	252.3	252.7	252.3

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	285.5	285.3	285.2	285.1	285.0	285.3	285.8	286.3	286.8	287.3	286.8
115°	319.8	320.1	320.3	320.6	320.7	320.7	320.7	320.7	320.7	320.7	320.7
117.5°	355.8	355.6	355.5	355.4	355.3	355.3	355.3	355.3	355.3	355.3	355.3
120°	387.8	388.1	388.3	388.6	388.7	388.6	388.3	388.1	387.8	387.6	387.8
122.5°	420.0	420.2	420.3	420.4	420.5	420.4	420.1	419.8	419.6	419.3	419.6
125°	449.2	449.6	449.9	450.3	450.5	450.6	450.7	450.8	451.0	451.1	451.0
127.5°	479.9	479.7	479.6	479.5	479.4	479.3	479.2	479.1	478.9	478.8	478.9
130°	506.7	506.9	507.0	507.1	507.2	507.2	507.2	507.2	507.2	507.2	507.2
132.5°	533.3	533.5	533.6	533.7	533.8	533.7	533.6	533.5	533.3	533.2	533.3
135°	557.3	557.5	557.8	558.1	558.2	558.3	558.6	558.8	559.1	559.3	559.1
137.5°	581.1	581.3	581.6	581.9	582.0	581.9	581.8	581.7	581.5	581.4	581.5
140°	602.8	603.2	603.5	603.9	604.1	604.2	604.3	604.4	604.5	604.6	604.5
142.5°	623.0	623.3	623.5	623.8	623.9	623.9	623.9	623.9	623.9	623.9	623.9
145°	642.1	642.3	642.4	642.5	642.6	642.7	643.0	643.2	643.5	643.7	643.5
147.5°	659.1	659.3	659.4	659.5	659.6	659.7	659.8	659.9	660.1	660.2	660.1
150°	675.5	675.5	675.5	675.5	675.5	675.6	675.7	675.8	675.9	676.0	675.9
152.5°	689.3	689.6	689.8	690.1	690.2	690.1	690.0	689.9	689.7	689.6	689.7
155°	701.5	702.0	702.5	703.0	703.2	703.0	702.6	702.3	701.9	701.5	701.9
157.5°	712.3	713.0	713.6	714.3	714.6	714.3	713.6	713.0	712.3	711.7	712.3
160°	722.7	723.4	724.2	724.9	725.3	724.9	724.2	723.4	722.7	721.9	722.7
162.5°	731.2	731.9	732.7	733.4	733.8	733.4	732.5	731.6	730.8	729.9	730.8
165°	738.8	739.8	740.8	741.8	742.3	741.7	740.6	739.5	738.3	737.2	738.3
167.5°	744.6	745.8	746.9	748.0	748.6	748.0	746.7	745.4	744.2	742.9	744.2
170°	750.1	751.1	752.2	753.2	753.7	753.1	751.8	750.5	749.3	748.0	749.3
172.5°	753.5	754.5	755.6	756.6	757.1	756.4	755.0	753.6	752.2	750.8	752.2
175°	755.9	757.1	758.2	759.3	759.9	759.1	757.6	756.1	754.6	753.1	754.6
177.5°	757.5	758.5	759.5	760.5	761.0	760.2	758.7	757.2	755.7	754.2	755.7
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1774.0	1769.9	1764.4	1764.4	1757.6	1757.6	1746.7	1727.7	1711.3	1705.9	1708.6
5°	1925.2	1926.6	1918.4	1911.6	1899.3	1889.8	1872.1	1838.0	1827.1	1805.3	1790.3
7.5°	2098.3	2092.8	2077.8	2066.9	2064.2	2042.4	2004.2	1963.4	1930.7	1908.9	1877.5
10°	2293.1	2271.3	2249.5	2242.7	2226.3	2189.5	2145.9	2101.0	2056.0	2008.3	1955.2
12.5°	2456.6	2414.4	2413.0	2396.6	2365.3	2344.9	2293.1	2229.1	2151.4	2098.3	2038.3
15°	2632.4	2592.8	2560.1	2530.2	2515.2	2455.2	2411.6	2331.2	2238.6	2181.4	2140.5
17.5°	2757.7	2740.0	2684.1	2670.5	2650.1	2580.6	2511.1	2432.1	2351.7	2271.3	2160.9
20°	2858.5	2847.6	2810.8	2791.8	2759.1	2704.6	2620.1	2528.8	2436.2	2321.7	2218.2
22.5°	2902.1	2888.5	2858.5	2842.2	2821.7	2775.4	2703.2	2599.7	2478.4	2376.2	2265.8
25°	2816.3	2840.8	2832.6	2825.8	2817.7	2790.4	2735.9	2644.6	2526.1	2410.3	2272.7
27.5°	2622.8	2665.1	2705.9	2711.4	2725.0	2735.9	2714.1	2648.7	2549.2	2426.6	2275.4
30°	2362.6	2381.7	2464.8	2489.3	2508.4	2577.9	2618.7	2602.4	2526.1	2415.7	2276.7
32.5°	2028.8	2079.2	2163.7	2222.2	2274.0	2351.7	2458.0	2500.2	2472.9	2383.0	2245.4
35°	1712.7	1772.6	1870.7	1945.7	1997.4	2107.8	2233.1	2324.4	2358.5	2313.5	2190.9
37.5°	1453.8	1526.0	1613.2	1641.8	1701.8	1838.0	2011.1	2137.8	2220.9	2225.0	2129.6
40°	1259.0	1295.7	1365.2	1408.8	1467.4	1581.9	1750.8	1918.4	2043.8	2086.0	2035.6
42.5°	1094.1	1122.7	1174.5	1227.6	1280.8	1368.0	1523.3	1680.0	1848.9	1933.4	1932.0
45°	963.3	993.3	1028.7	1072.3	1109.1	1203.1	1325.7	1486.5	1632.3	1763.1	1795.8
47.5°	848.8	874.7	918.3	937.4	961.9	1050.5	1156.8	1306.6	1457.9	1607.8	1645.9
50°	764.4	786.2	816.1	828.4	855.7	921.1	1008.3	1129.5	1297.1	1434.7	1505.6
52.5°	688.1	704.4	727.6	737.1	756.2	805.2	884.3	979.6	1118.6	1260.3	1359.8
55°	622.7	633.6	649.9	660.8	674.4	718.0	776.6	862.5	982.4	1105.0	1201.7
57.5°	561.4	569.5	585.9	591.3	602.2	636.3	677.2	749.4	859.7	968.7	1062.8
60°	504.1	509.6	519.1	531.4	539.6	562.7	600.9	660.8	749.4	848.8	925.1
62.5°	449.6	457.8	460.5	466.0	472.8	494.6	524.6	568.2	645.8	727.6	808.0
65°	393.8	400.6	406.0	407.4	414.2	430.6	457.8	496.0	546.4	617.2	692.2
67.5°	342.0	346.1	348.8	354.3	361.1	369.2	391.0	419.7	466.0	523.2	583.2
70°	294.3	294.3	298.4	299.8	307.9	317.5	327.0	354.3	395.1	441.5	482.3
72.5°	242.5	249.3	248.0	254.8	253.4	260.2	272.5	290.2	320.2	357.0	396.5
75°	197.6	201.7	201.7	201.7	204.4	209.8	216.6	233.0	256.2	286.1	309.3
77.5°	154.0	156.7	156.7	156.7	158.1	163.5	170.3	181.2	197.6	215.3	228.9
80°	110.4	113.1	113.1	115.8	115.8	117.2	124.0	129.4	137.6	151.2	164.9
82.5°	74.9	76.3	79.0	79.0	77.7	80.4	81.8	87.2	95.4	98.1	107.6
85°	40.9	42.2	43.6	43.6	45.0	47.7	46.3	51.8	51.8	57.2	60.0
87.5°	16.4	19.1	19.1	17.7	19.1	19.1	19.1	21.8	23.2	24.5	23.2
90°	16.5	16.3	16.0	15.9	15.5	14.8	14.0	13.3	12.5	11.5	10.5
92.5°	15.3	15.3	15.3	15.3	14.9	14.2	13.4	12.7	11.9	10.9	9.9
95°	16.2	16.1	16.0	15.9	15.5	14.8	14.0	13.3	12.5	12.4	12.2
97.5°	15.6	15.5	15.4	15.3	15.0	14.4	13.7	13.1	12.5	25.7	38.9
100°	15.6	15.5	15.4	15.3	16.4	18.5	20.6	22.8	24.9	42.3	59.7
102.5°	16.4	16.4	16.4	16.4	30.6	58.9	87.2	115.6	143.9	142.4	140.9
105°	170.6	175.1	179.6	181.9	181.3	180.2	179.1	177.9	176.8	176.2	175.6
107.5°	217.2	216.7	216.2	215.9	215.6	215.0	214.3	213.7	213.1	212.2	211.3
110°	251.9	251.6	251.2	251.0	250.9	250.6	250.4	250.1	249.9	249.1	248.4



TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	286.3	285.8	285.3	285.0	285.1	285.2	285.3	285.5	285.6	285.4	285.1
115°	320.7	320.7	320.7	320.7	320.6	320.3	320.1	319.8	319.6	319.7	319.9
117.5°	355.3	355.3	355.3	355.3	355.4	355.5	355.6	355.8	355.9	355.5	355.1
120°	388.1	388.3	388.6	388.7	388.6	388.3	388.1	387.8	387.6	387.7	387.9
122.5°	419.8	420.1	420.4	420.5	420.4	420.3	420.2	420.0	419.9	419.7	419.4
125°	450.8	450.7	450.6	450.5	450.3	449.9	449.6	449.2	448.8	449.0	449.3
127.5°	479.1	479.2	479.3	479.4	479.5	479.6	479.7	479.9	480.0	479.4	478.7
130°	507.2	507.2	507.2	507.2	507.1	507.0	506.9	506.7	506.6	506.2	505.8
132.5°	533.5	533.6	533.7	533.8	533.7	533.6	533.5	533.3	533.2	532.7	532.2
135°	558.8	558.6	558.3	558.2	558.1	557.8	557.5	557.3	557.0	556.5	556.0
137.5°	581.7	581.8	581.9	582.0	581.9	581.6	581.3	581.1	580.8	580.2	579.6
140°	604.4	604.3	604.2	604.1	603.9	603.5	603.2	602.8	602.4	602.1	601.9
142.5°	623.9	623.9	623.9	623.9	623.8	623.5	623.3	623.0	622.8	622.7	622.5
145°	643.2	643.0	642.7	642.6	642.5	642.4	642.3	642.1	642.0	642.0	642.0
147.5°	659.9	659.8	659.7	659.6	659.5	659.4	659.3	659.1	659.0	659.1	659.3
150°	675.8	675.7	675.6	675.5	675.5	675.5	675.5	675.5	675.5	675.6	675.7
152.5°	689.9	690.0	690.1	690.2	690.1	689.8	689.6	689.3	689.1	689.3	689.6
155°	702.3	702.6	703.0	703.2	703.0	702.5	702.0	701.5	701.0	701.4	701.8
157.5°	713.0	713.6	714.3	714.6	714.3	713.6	713.0	712.3	711.7	712.2	712.7
160°	723.4	724.2	724.9	725.3	724.9	724.2	723.4	722.7	721.9	722.0	722.2
162.5°	731.6	732.5	733.4	733.8	733.4	732.7	731.9	731.2	730.4	730.5	730.7
165°	739.5	740.6	741.7	742.3	741.8	740.8	739.8	738.8	737.8	737.8	737.8
167.5°	745.4	746.7	748.0	748.6	748.0	746.9	745.8	744.6	743.5	743.6	743.7
170°	750.5	751.8	753.1	753.7	753.2	752.2	751.1	750.1	749.1	749.0	748.9
172.5°	753.6	755.0	756.4	757.1	756.6	755.6	754.5	753.5	752.5	752.4	752.3
175°	756.1	757.6	759.1	759.9	759.3	758.2	757.1	755.9	754.8	754.7	754.5
177.5°	757.2	758.7	760.2	761.0	760.5	759.5	758.5	757.5	756.5	756.3	756.0
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1696.3	1690.9	1686.8	1686.8	1674.5	1662.3	1655.4	1652.7	1650.0	1639.1	1624.1
5°	1765.8	1748.1	1735.8	1723.6	1703.1	1681.3	1659.5	1647.3	1629.6	1605.0	1587.3
7.5°	1843.5	1801.2	1787.6	1772.6	1731.7	1695.0	1665.0	1639.1	1610.5	1579.1	1547.8
10°	1908.9	1863.9	1833.9	1808.0	1754.9	1705.9	1660.9	1622.7	1586.0	1545.1	1506.9
12.5°	1971.5	1907.5	1876.2	1838.0	1782.2	1711.3	1652.7	1605.0	1550.5	1508.3	1462.0
15°	2058.7	1951.1	1899.3	1874.8	1799.9	1716.8	1645.9	1575.1	1530.1	1466.1	1425.2
17.5°	2072.4	1985.2	1951.1	1888.4	1798.5	1704.5	1622.7	1551.9	1483.8	1426.5	1373.4
20°	2120.1	2005.6	1951.1	1911.6	1793.1	1697.7	1607.8	1516.5	1451.1	1389.8	1329.8
22.5°	2150.0	2020.6	1963.4	1900.7	1787.6	1673.2	1566.9	1487.9	1407.5	1344.8	1297.1
25°	2141.9	2012.4	1948.4	1889.8	1752.2	1637.7	1542.4	1441.5	1366.6	1298.5	1235.8
27.5°	2137.8	1992.0	1923.9	1858.5	1729.0	1609.1	1489.2	1407.5	1324.4	1245.3	1199.0
30°	2126.9	1966.1	1887.1	1816.2	1681.3	1556.0	1453.8	1358.4	1275.3	1203.1	1141.8
32.5°	2090.1	1922.5	1846.2	1769.9	1629.6	1504.2	1400.7	1312.1	1229.0	1154.0	1095.5
35°	2041.0	1870.7	1787.6	1707.2	1566.9	1440.2	1344.8	1252.1	1174.5	1102.3	1046.4
37.5°	1992.0	1810.8	1733.1	1640.5	1511.0	1378.9	1280.8	1197.6	1125.4	1050.5	989.2
40°	1921.1	1739.9	1654.1	1575.1	1423.8	1299.8	1209.9	1135.0	1064.1	993.3	941.5
42.5°	1824.4	1662.3	1573.7	1486.5	1344.8	1222.2	1135.0	1068.2	1001.4	942.9	885.6
45°	1726.3	1568.2	1489.2	1411.6	1257.6	1141.8	1061.4	1000.1	944.2	880.2	833.9
47.5°	1607.8	1474.2	1395.2	1318.9	1173.1	1057.3	983.7	926.5	874.7	821.6	778.0
50°	1486.5	1370.7	1298.5	1219.4	1080.5	975.6	903.3	855.7	813.4	763.0	727.6
52.5°	1355.7	1254.9	1193.6	1117.3	994.6	897.9	824.3	776.6	741.2	704.4	673.1
55°	1216.7	1143.1	1077.7	1016.4	900.6	813.4	748.0	705.8	681.3	647.2	619.9
57.5°	1091.4	1020.5	981.0	911.5	810.7	724.9	673.1	637.7	609.0	588.6	566.8
60°	960.6	903.3	859.7	809.3	720.8	648.6	594.1	573.6	543.6	528.7	519.1
62.5°	835.2	794.3	753.5	715.3	636.3	568.2	527.3	501.4	483.7	468.7	460.5
65°	716.7	678.5	649.9	615.9	550.5	496.0	457.8	437.4	419.7	415.6	406.0
67.5°	600.9	584.5	553.2	525.9	470.1	427.8	399.2	373.3	363.8	359.7	351.5
70°	502.8	483.7	459.2	436.0	393.8	357.0	331.1	321.6	307.9	306.6	297.0
72.5°	414.2	391.0	373.3	355.6	324.3	291.6	278.0	264.3	257.5	252.1	248.0
75°	328.4	312.0	299.8	284.8	257.5	235.7	216.6	211.2	207.1	205.7	203.0
77.5°	245.3	234.4	228.9	213.9	194.8	175.8	167.6	159.4	159.4	156.7	158.1
80°	174.4	167.6	160.8	152.6	136.3	128.1	121.3	115.8	113.1	111.7	113.1
82.5°	110.4	106.3	104.9	99.5	88.6	84.5	79.0	74.9	74.9	74.9	74.9
85°	61.3	61.3	61.3	53.1	49.1	45.0	42.2	40.9	40.9	40.9	42.2
87.5°	25.9	25.9	21.8	21.8	20.4	17.7	16.4	16.4	17.7	17.7	19.1
90°	9.4	8.4	7.9	7.2	5.8	4.5	3.1	1.7	3.1	4.5	5.8
92.5°	8.9	7.9	7.4	7.5	7.8	8.0	8.3	8.5	8.3	8.0	7.8
95°	12.1	12.0	11.9	14.0	18.3	22.6	26.9	31.2	26.9	22.6	18.3
97.5°	52.2	65.4	72.0	70.6	67.8	65.1	62.3	59.5	62.3	65.1	67.8
100°	77.0	94.4	103.1	102.0	99.7	97.4	95.2	92.9	95.2	97.4	99.7
102.5°	139.4	137.9	137.1	136.3	134.8	133.3	131.8	130.3	131.8	133.3	134.8
105°	174.9	174.3	174.0	173.6	172.9	172.1	171.4	170.6	171.4	172.1	172.9
107.5°	210.4	209.5	209.1	208.9	208.5	208.2	207.8	207.4	207.8	208.2	208.5
110°	247.6	246.9	246.5	246.3	245.9	245.6	245.2	244.8	245.2	245.6	245.9

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	284.9	284.6	284.5	284.1	283.4	282.6	281.9	281.1	281.9	282.6	283.4
115°	320.0	320.1	320.2	320.0	319.6	319.3	318.9	318.5	318.9	319.3	319.6
117.5°	354.8	354.4	354.2	353.9	353.4	352.9	352.4	351.9	352.4	352.9	353.4
120°	388.0	388.1	388.2	387.9	387.4	386.9	386.4	385.9	386.4	386.9	387.4
122.5°	419.2	418.9	418.8	418.7	418.4	418.1	417.9	417.6	417.9	418.1	418.4
125°	449.5	449.8	449.9	449.7	449.2	448.7	448.2	447.7	448.2	448.7	449.2
127.5°	478.1	477.4	477.1	477.0	476.9	476.8	476.7	476.6	476.7	476.8	476.9
130°	505.5	505.1	504.9	504.8	504.7	504.6	504.4	504.3	504.4	504.6	504.7
132.5°	531.7	531.2	531.0	530.9	530.6	530.3	530.1	529.8	530.1	530.3	530.6
135°	555.5	555.0	554.8	554.9	555.0	555.1	555.2	555.3	555.2	555.1	555.0
137.5°	578.9	578.3	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0	578.0
140°	601.6	601.3	601.2	601.1	600.8	600.6	600.3	600.1	600.3	600.6	600.8
142.5°	622.4	622.3	622.2	621.9	621.4	620.9	620.4	619.9	620.4	620.9	621.4
145°	642.0	642.0	642.0	641.8	641.4	641.1	640.7	640.3	640.7	641.1	641.4
147.5°	659.4	659.5	659.6	659.2	658.5	657.7	657.0	656.2	657.0	657.7	658.5
150°	675.8	675.9	676.0	675.8	675.3	674.8	674.3	673.8	674.3	674.8	675.3
152.5°	689.8	690.1	690.2	690.0	689.6	689.3	688.9	688.5	688.9	689.3	689.6
155°	702.1	702.5	702.7	702.6	702.5	702.4	702.2	702.1	702.2	702.4	702.5
157.5°	713.2	713.7	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0	714.0
160°	722.3	722.4	722.5	722.7	723.1	723.4	723.8	724.2	723.8	723.4	723.1
162.5°	730.8	730.9	731.0	731.3	731.8	732.3	732.8	733.3	732.8	732.3	731.8
165°	737.8	737.8	737.8	738.1	738.7	739.4	740.0	740.6	740.0	739.4	738.7
167.5°	743.8	743.9	744.0	744.3	745.0	745.6	746.3	746.9	746.3	745.6	745.0
170°	748.8	748.7	748.6	749.0	749.7	750.5	751.2	752.0	751.2	750.5	749.7
172.5°	752.2	752.1	752.0	752.4	753.1	753.9	754.6	755.4	754.6	753.9	753.1
175°	754.4	754.3	754.2	754.6	755.3	756.1	756.8	757.6	756.8	756.1	755.3
177.5°	755.8	755.5	755.4	755.8	756.7	757.6	758.4	759.3	758.4	757.6	756.7
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1620.0	1614.6	1617.3	1603.7	1591.4	1573.7	1558.7	1556.0	1553.3	1561.4	1556.0
5°	1573.7	1566.9	1560.1	1543.7	1519.2	1504.2	1482.4	1481.0	1472.9	1460.6	1463.3
7.5°	1523.3	1519.2	1509.7	1483.8	1462.0	1436.1	1418.4	1403.4	1396.6	1385.7	1381.6
10°	1482.4	1467.4	1459.2	1430.6	1404.7	1377.5	1354.3	1343.4	1331.2	1321.6	1314.8
12.5°	1426.5	1422.5	1399.3	1376.1	1354.3	1323.0	1305.3	1273.9	1257.6	1265.8	1263.0
15°	1389.8	1370.7	1365.2	1332.5	1295.7	1275.3	1242.6	1222.2	1215.4	1203.1	1188.1
17.5°	1340.7	1328.4	1309.4	1279.4	1237.2	1208.5	1185.4	1166.3	1158.1	1141.8	1129.5
20°	1294.4	1273.9	1259.0	1231.7	1190.8	1154.0	1125.4	1113.2	1092.7	1079.1	1072.3
22.5°	1252.1	1237.2	1215.4	1174.5	1139.1	1103.6	1069.6	1051.9	1032.8	1024.6	1013.7
25°	1200.4	1175.8	1160.9	1115.9	1077.7	1049.1	1017.8	994.6	983.7	970.1	967.4
27.5°	1150.0	1126.8	1109.1	1069.6	1023.2	986.5	967.4	951.0	932.0	932.0	925.1
30°	1099.5	1083.2	1055.9	1017.8	974.2	938.8	917.0	902.0	895.2	889.7	888.4
32.5°	1049.1	1027.3	1011.0	959.2	926.5	893.8	877.5	865.2	857.0	855.7	857.0
35°	997.4	972.8	956.5	910.2	877.5	847.5	840.7	829.8	825.7	824.3	831.1
37.5°	942.9	923.8	903.3	865.2	828.4	810.7	797.1	793.0	791.6	799.8	802.5
40°	892.4	876.1	857.0	816.1	788.9	769.8	763.0	758.9	764.4	772.5	776.6
42.5°	844.8	821.6	806.6	769.8	745.3	734.4	726.2	726.2	731.7	741.2	748.0
45°	794.3	776.6	761.6	728.9	707.1	694.9	693.5	694.9	701.7	708.5	716.7
47.5°	745.3	727.6	711.2	684.0	664.9	658.1	656.7	658.1	669.0	678.5	688.1
50°	700.3	681.3	666.3	640.4	625.4	617.2	618.6	625.4	633.6	647.2	659.5
52.5°	647.2	633.6	619.9	596.8	583.2	577.7	581.8	587.2	602.2	611.8	626.8
55°	595.4	583.2	572.3	554.5	543.6	539.6	542.3	550.5	562.7	579.1	596.8
57.5°	547.7	534.1	523.2	510.9	498.7	500.0	501.4	512.3	527.3	542.3	562.7
60°	494.6	486.4	476.9	461.9	456.4	456.4	460.5	472.8	486.4	510.9	528.7
62.5°	446.9	436.0	429.2	419.7	411.5	412.8	422.4	433.3	449.6	470.1	493.2
65°	397.9	385.6	380.1	372.0	369.2	370.6	377.4	393.8	411.5	429.2	451.0
67.5°	343.4	339.3	333.8	325.6	328.4	329.7	336.5	350.2	369.2	387.0	411.5
70°	297.0	288.9	287.5	280.7	280.7	284.8	298.4	307.9	325.6	344.7	370.6
72.5°	248.0	241.2	241.2	235.7	239.8	243.9	250.7	264.3	280.7	299.8	321.6
75°	197.6	194.8	197.6	194.8	194.8	201.7	209.8	220.7	238.4	258.9	276.6
77.5°	152.6	152.6	151.2	155.3	155.3	159.4	170.3	181.2	194.8	211.2	230.3
80°	111.7	111.7	111.7	115.8	119.9	119.9	126.7	140.3	152.6	163.5	181.2
82.5°	76.3	76.3	76.3	79.0	84.5	84.5	92.7	100.8	114.5	124.0	132.2
85°	46.3	46.3	45.0	47.7	49.1	53.1	60.0	65.4	72.2	80.4	88.6
87.5°	20.4	20.4	21.8	23.2	24.5	27.3	30.0	32.7	39.5	42.2	46.3
90°	7.2	7.9	8.4	9.4	10.5	11.5	12.5	13.3	14.0	14.8	15.5
92.5°	7.5	7.4	7.9	8.9	9.9	10.9	11.9	12.7	13.4	14.2	14.9
95°	14.0	11.9	12.0	12.1	12.2	12.4	12.5	13.3	14.0	14.8	15.5
97.5°	70.6	72.0	65.4	52.2	38.9	25.7	12.5	13.1	13.7	14.4	15.0
100°	102.0	103.1	94.4	77.0	59.7	42.3	24.9	22.8	20.6	18.5	16.4
102.5°	136.3	137.1	137.9	139.4	140.9	142.4	143.9	115.6	87.2	58.9	30.6
105°	173.6	174.0	174.3	174.9	175.6	176.2	176.8	177.9	179.1	180.2	181.3
107.5°	208.9	209.1	209.5	210.4	211.3	212.2	213.1	213.7	214.3	215.0	215.6
110°	246.3	246.5	246.9	247.6	248.4	249.1	249.9	250.1	250.4	250.6	250.9

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	284.1	284.5	284.6	284.9	285.1	285.4	285.6	285.5	285.3	285.2	285.1
115°	320.0	320.2	320.1	320.0	319.9	319.7	319.6	319.8	320.1	320.3	320.6
117.5°	353.9	354.2	354.4	354.8	355.1	355.5	355.9	355.8	355.6	355.5	355.4
120°	387.9	388.2	388.1	388.0	387.9	387.7	387.6	387.8	388.1	388.3	388.6
122.5°	418.7	418.8	418.9	419.2	419.4	419.7	419.9	420.0	420.2	420.3	420.4
125°	449.7	449.9	449.8	449.5	449.3	449.0	448.8	449.2	449.6	449.9	450.3
127.5°	477.0	477.1	477.4	478.1	478.7	479.4	480.0	479.9	479.7	479.6	479.5
130°	504.8	504.9	505.1	505.5	505.8	506.2	506.6	506.7	506.9	507.0	507.1
132.5°	530.9	531.0	531.2	531.7	532.2	532.7	533.2	533.3	533.5	533.6	533.7
135°	554.9	554.8	555.0	555.5	556.0	556.5	557.0	557.3	557.5	557.8	558.1
137.5°	578.0	578.0	578.3	578.9	579.6	580.2	580.8	581.1	581.3	581.6	581.9
140°	601.1	601.2	601.3	601.6	601.9	602.1	602.4	602.8	603.2	603.5	603.9
142.5°	621.9	622.2	622.3	622.4	622.5	622.7	622.8	623.0	623.3	623.5	623.8
145°	641.8	642.0	642.0	642.0	642.0	642.0	642.0	642.1	642.3	642.4	642.5
147.5°	659.2	659.6	659.5	659.4	659.3	659.1	659.0	659.1	659.3	659.4	659.5
150°	675.8	676.0	675.9	675.8	675.7	675.6	675.5	675.5	675.5	675.5	675.5
152.5°	690.0	690.2	690.1	689.8	689.6	689.3	689.1	689.3	689.6	689.8	690.1
155°	702.6	702.7	702.5	702.1	701.8	701.4	701.0	701.5	702.0	702.5	703.0
157.5°	714.0	714.0	713.7	713.2	712.7	712.2	711.7	712.3	713.0	713.6	714.3
160°	722.7	722.5	722.4	722.3	722.2	722.0	721.9	722.7	723.4	724.2	724.9
162.5°	731.3	731.0	730.9	730.8	730.7	730.5	730.4	731.2	731.9	732.7	733.4
165°	738.1	737.8	737.8	737.8	737.8	737.8	737.8	738.8	739.8	740.8	741.8
167.5°	744.3	744.0	743.9	743.8	743.7	743.6	743.5	744.6	745.8	746.9	748.0
170°	749.0	748.6	748.7	748.8	748.9	749.0	749.1	750.1	751.1	752.2	753.2
172.5°	752.4	752.0	752.1	752.2	752.3	752.4	752.5	753.5	754.5	755.6	756.6
175°	754.6	754.2	754.3	754.4	754.5	754.7	754.8	755.9	757.1	758.2	759.3
177.5°	755.8	755.4	755.5	755.8	756.0	756.3	756.5	757.5	758.5	759.5	760.5
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1551.9	1550.5	1543.7	1546.4	1538.3	1541.0	1545.1	1546.4	1551.9	1547.8	1546.4
5°	1456.5	1453.8	1449.7	1445.6	1444.3	1449.7	1440.2	1442.9	1445.6	1449.7	1455.2
7.5°	1378.9	1377.5	1373.4	1366.6	1363.9	1361.1	1362.5	1372.0	1370.7	1369.3	1378.9
10°	1308.0	1309.4	1301.2	1299.8	1291.7	1290.3	1291.7	1294.4	1298.5	1303.9	1305.3
12.5°	1234.4	1252.1	1237.2	1231.7	1219.4	1226.3	1229.0	1216.7	1223.5	1227.6	1248.1
15°	1188.1	1179.9	1170.4	1170.4	1164.9	1162.2	1155.4	1164.9	1170.4	1178.6	1175.8
17.5°	1124.1	1110.4	1105.0	1099.5	1100.9	1106.4	1091.4	1113.2	1113.2	1117.3	1110.4
20°	1068.2	1057.3	1050.5	1047.8	1043.7	1041.0	1039.6	1045.0	1053.2	1055.9	1062.8
22.5°	1009.6	1009.6	998.7	994.6	991.9	987.8	994.6	990.5	996.0	1001.4	1012.3
25°	960.6	960.6	956.5	951.0	946.9	944.2	948.3	946.9	951.0	957.8	960.6
27.5°	921.1	917.0	915.6	914.2	912.9	914.2	912.9	917.0	921.1	922.4	919.7
30°	887.0	882.9	884.3	884.3	885.6	884.3	882.9	887.0	888.4	885.6	887.0
32.5°	855.7	855.7	858.4	859.7	859.7	861.1	862.5	859.7	861.1	857.0	858.4
35°	829.8	832.5	835.2	836.6	837.9	836.6	839.3	837.9	835.2	832.5	831.1
37.5°	803.9	806.6	812.1	813.4	817.5	818.9	816.1	816.1	814.8	809.3	806.6
40°	776.6	779.4	786.2	790.3	793.0	797.1	794.3	794.3	788.9	783.4	779.4
42.5°	750.7	756.2	763.0	767.1	772.5	772.5	772.5	769.8	763.0	757.6	753.5
45°	724.9	726.2	735.8	742.6	748.0	748.0	748.0	743.9	739.8	728.9	723.5
47.5°	696.2	700.3	711.2	718.0	723.5	724.9	724.9	720.8	712.6	703.1	696.2
50°	664.9	671.7	684.0	693.5	700.3	703.1	699.0	696.2	686.7	675.8	667.6
52.5°	634.9	643.1	658.1	666.3	675.8	677.2	675.8	671.7	660.8	645.8	639.0
55°	605.0	611.8	628.1	641.7	649.9	652.6	649.9	643.1	629.5	614.5	607.7
57.5°	572.3	581.8	599.5	613.1	622.7	624.0	621.3	614.5	603.6	584.5	575.0
60°	538.2	550.5	568.2	581.8	594.1	595.4	592.7	583.2	569.5	550.5	542.3
62.5°	504.1	513.7	534.1	549.1	558.6	565.4	560.0	550.5	536.8	517.8	505.5
65°	464.6	478.2	496.0	509.6	520.5	521.8	519.1	510.9	496.0	475.5	466.0
67.5°	426.5	436.0	453.7	471.4	475.5	479.6	475.5	467.3	455.1	437.4	423.7
70°	380.1	388.3	410.1	422.4	427.8	431.9	429.2	421.0	410.1	393.8	382.9
72.5°	333.8	340.6	361.1	370.6	381.5	380.1	378.8	373.3	358.3	347.4	340.6
75°	284.8	292.9	306.6	318.8	322.9	322.9	322.9	318.8	309.3	291.6	284.8
77.5°	239.8	243.9	254.8	261.6	265.7	267.1	265.7	258.9	253.4	241.2	237.1
80°	183.9	194.8	203.0	204.4	209.8	209.8	209.8	207.1	201.7	189.4	188.0
82.5°	139.0	141.7	149.9	154.0	156.7	155.3	155.3	149.9	148.5	141.7	139.0
85°	94.0	98.1	96.7	102.2	103.6	100.8	100.8	103.6	96.7	98.1	94.0
87.5°	51.8	51.8	54.5	53.1	58.6	58.6	55.9	57.2	54.5	53.1	51.8
90°	15.9	16.0	16.3	16.5	16.8	17.0	16.8	16.5	16.3	16.0	15.9
92.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
95°	15.9	16.0	16.1	16.2	16.3	16.4	16.3	16.2	16.1	16.0	15.9
97.5°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
100°	15.3	15.4	15.5	15.6	15.8	15.9	15.8	15.6	15.5	15.4	15.3
102.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
105°	181.9	179.6	175.1	170.6	166.0	161.5	166.0	170.6	175.1	179.6	181.9
107.5°	215.9	216.2	216.7	217.2	217.7	218.2	217.7	217.2	216.7	216.2	215.9
110°	251.0	251.2	251.6	251.9	252.3	252.7	252.3	251.9	251.6	251.2	251.0



TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	285.0	285.3	285.8	286.3	286.8	287.3	286.8	286.3	285.8	285.3	285.0
115°	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7	320.7
117.5°	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3	355.3
120°	388.7	388.6	388.3	388.1	387.8	387.6	387.8	388.1	388.3	388.6	388.7
122.5°	420.5	420.4	420.1	419.8	419.6	419.3	419.6	419.8	420.1	420.4	420.5
125°	450.5	450.6	450.7	450.8	451.0	451.1	451.0	450.8	450.7	450.6	450.5
127.5°	479.4	479.3	479.2	479.1	478.9	478.8	478.9	479.1	479.2	479.3	479.4
130°	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2	507.2
132.5°	533.8	533.7	533.6	533.5	533.3	533.2	533.3	533.5	533.6	533.7	533.8
135°	558.2	558.3	558.6	558.8	559.1	559.3	559.1	558.8	558.6	558.3	558.2
137.5°	582.0	581.9	581.8	581.7	581.5	581.4	581.5	581.7	581.8	581.9	582.0
140°	604.1	604.2	604.3	604.4	604.5	604.6	604.5	604.4	604.3	604.2	604.1
142.5°	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9	623.9
145°	642.6	642.7	643.0	643.2	643.5	643.7	643.5	643.2	643.0	642.7	642.6
147.5°	659.6	659.7	659.8	659.9	660.1	660.2	660.1	659.9	659.8	659.7	659.6
150°	675.5	675.6	675.7	675.8	675.9	676.0	675.9	675.8	675.7	675.6	675.5
152.5°	690.2	690.1	690.0	689.9	689.7	689.6	689.7	689.9	690.0	690.1	690.2
155°	703.2	703.0	702.6	702.3	701.9	701.5	701.9	702.3	702.6	703.0	703.2
157.5°	714.6	714.3	713.6	713.0	712.3	711.7	712.3	713.0	713.6	714.3	714.6
160°	725.3	724.9	724.2	723.4	722.7	721.9	722.7	723.4	724.2	724.9	725.3
162.5°	733.8	733.4	732.5	731.6	730.8	729.9	730.8	731.6	732.5	733.4	733.8
165°	742.3	741.7	740.6	739.5	738.3	737.2	738.3	739.5	740.6	741.7	742.3
167.5°	748.6	748.0	746.7	745.4	744.2	742.9	744.2	745.4	746.7	748.0	748.6
170°	753.7	753.1	751.8	750.5	749.3	748.0	749.3	750.5	751.8	753.1	753.7
172.5°	757.1	756.4	755.0	753.6	752.2	750.8	752.2	753.6	755.0	756.4	757.1
175°	759.9	759.1	757.6	756.1	754.6	753.1	754.6	756.1	757.6	759.1	759.9
177.5°	761.0	760.2	758.7	757.2	755.7	754.2	755.7	757.2	758.7	760.2	761.0
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5	1644.5
2.5°	1546.4	1554.6	1546.4	1551.9	1554.6	1561.4	1564.2	1576.4	1580.5	1590.0	1590.0
5°	1453.8	1457.9	1459.2	1464.7	1470.1	1483.8	1493.3	1511.0	1531.5	1534.2	1546.4
7.5°	1378.9	1385.7	1396.6	1392.5	1402.0	1422.5	1434.7	1456.5	1477.0	1487.9	1502.8
10°	1312.1	1320.3	1324.4	1328.4	1346.2	1363.9	1382.9	1397.9	1425.2	1441.5	1453.8
12.5°	1257.6	1250.8	1259.0	1273.9	1294.4	1305.3	1331.2	1354.3	1374.8	1392.5	1403.4
15°	1186.7	1192.2	1200.4	1226.3	1231.7	1259.0	1268.5	1294.4	1332.5	1348.9	1362.5
17.5°	1118.6	1136.3	1152.7	1162.2	1178.6	1200.4	1227.6	1256.2	1280.8	1299.8	1316.2
20°	1064.1	1081.8	1091.4	1098.2	1114.5	1144.5	1170.4	1205.8	1237.2	1252.1	1273.9
22.5°	1020.5	1020.5	1034.1	1054.6	1064.1	1092.7	1114.5	1152.7	1186.7	1205.8	1226.3
25°	966.0	974.2	985.1	1002.8	1016.4	1039.6	1070.9	1103.6	1140.4	1156.8	1182.7
27.5°	921.1	930.6	945.6	949.7	963.3	983.7	1016.4	1051.9	1090.0	1107.7	1129.5
30°	887.0	892.4	897.9	906.1	918.3	936.0	963.3	994.6	1041.0	1054.6	1081.8
32.5°	857.0	859.7	862.5	869.3	876.1	893.8	915.6	949.7	987.8	1008.3	1032.8
35°	829.8	827.0	828.4	832.5	839.3	846.1	869.3	897.9	933.3	957.8	976.9
37.5°	803.9	798.4	797.1	797.1	799.8	808.0	825.7	850.2	888.4	908.8	927.9
40°	775.3	769.8	767.1	765.7	764.4	769.8	783.4	808.0	837.9	857.0	878.8
42.5°	748.0	742.6	735.8	734.4	731.7	734.4	743.9	767.1	793.0	812.1	829.8
45°	720.8	711.2	703.1	697.6	699.0	694.9	701.7	719.4	749.4	761.6	779.4
47.5°	690.8	679.9	669.0	663.5	658.1	660.8	663.5	678.5	704.4	716.7	734.4
50°	662.2	647.2	634.9	628.1	624.0	621.3	624.0	639.0	658.1	669.0	684.0
52.5°	629.5	614.5	602.2	591.3	585.9	581.8	583.2	596.8	614.5	625.4	640.4
55°	599.5	580.4	564.1	550.5	546.4	545.0	543.6	553.2	568.2	579.1	591.3
57.5°	565.4	546.4	528.7	512.3	504.1	502.8	502.8	505.5	524.6	532.7	539.6
60°	531.4	510.9	491.9	476.9	464.6	460.5	459.2	464.6	474.2	482.3	491.9
62.5°	493.2	472.8	449.6	436.0	423.7	412.8	416.9	418.3	431.9	436.0	444.2
65°	456.4	433.3	414.2	392.4	378.8	372.0	369.2	372.0	382.9	384.2	389.7
67.5°	414.2	392.4	369.2	354.3	342.0	329.7	327.0	327.0	332.5	336.5	343.4
70°	373.3	351.5	325.6	309.3	297.0	286.1	282.0	280.7	284.8	287.5	294.3
72.5°	325.6	303.8	284.8	267.1	252.1	243.9	239.8	237.1	241.2	243.9	245.3
75°	275.2	257.5	238.4	220.7	211.2	203.0	197.6	193.5	196.2	196.2	196.2
77.5°	227.5	209.8	194.8	182.6	170.3	160.8	156.7	152.6	154.0	154.0	156.7
80°	177.1	164.9	152.6	141.7	130.8	122.6	119.9	115.8	113.1	111.7	111.7
82.5°	130.8	121.3	110.4	100.8	95.4	87.2	84.5	79.0	79.0	77.7	77.7
85°	87.2	81.8	70.9	64.0	60.0	55.9	53.1	50.4	46.3	46.3	45.0
87.5°	46.3	43.6	40.9	32.7	32.7	28.6	27.3	25.9	21.8	23.2	23.2
90°	15.5	14.8	14.0	13.3	12.5	11.5	10.5	9.4	8.4	7.9	7.2
92.5°	14.9	14.2	13.4	12.7	11.9	10.9	9.9	8.9	7.9	7.4	7.5
95°	15.5	14.8	14.0	13.3	12.5	12.4	12.2	12.1	12.0	11.9	14.0
97.5°	15.0	14.4	13.7	13.1	12.5	25.7	38.9	52.2	65.4	72.0	70.6
100°	16.4	18.5	20.6	22.8	24.9	42.3	59.7	77.0	94.4	103.1	102.0
102.5°	30.6	58.9	87.2	115.6	143.9	142.4	140.9	139.4	137.9	137.1	136.3
105°	181.3	180.2	179.1	177.9	176.8	176.2	175.6	174.9	174.3	174.0	173.6
107.5°	215.6	215.0	214.3	213.7	213.1	212.2	211.3	210.4	209.5	209.1	208.9
110°	250.9	250.6	250.4	250.1	249.9	249.1	248.4	247.6	246.9	246.5	246.3

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	285.1	285.2	285.3	285.5	285.6	285.4	285.1	284.9	284.6	284.5	284.1
115°	320.6	320.3	320.1	319.8	319.6	319.7	319.9	320.0	320.1	320.2	320.0
117.5°	355.4	355.5	355.6	355.8	355.9	355.5	355.1	354.8	354.4	354.2	353.9
120°	388.6	388.3	388.1	387.8	387.6	387.7	387.9	388.0	388.1	388.2	387.9
122.5°	420.4	420.3	420.2	420.0	419.9	419.7	419.4	419.2	418.9	418.8	418.7
125°	450.3	449.9	449.6	449.2	448.8	449.0	449.3	449.5	449.8	449.9	449.7
127.5°	479.5	479.6	479.7	479.9	480.0	479.4	478.7	478.1	477.4	477.1	477.0
130°	507.1	507.0	506.9	506.7	506.6	506.2	505.8	505.5	505.1	504.9	504.8
132.5°	533.7	533.6	533.5	533.3	533.2	532.7	532.2	531.7	531.2	531.0	530.9
135°	558.1	557.8	557.5	557.3	557.0	556.5	556.0	555.5	555.0	554.8	554.9
137.5°	581.9	581.6	581.3	581.1	580.8	580.2	579.6	578.9	578.3	578.0	578.0
140°	603.9	603.5	603.2	602.8	602.4	602.1	601.9	601.6	601.3	601.2	601.1
142.5°	623.8	623.5	623.3	623.0	622.8	622.7	622.5	622.4	622.3	622.2	621.9
145°	642.5	642.4	642.3	642.1	642.0	642.0	642.0	642.0	642.0	642.0	641.8
147.5°	659.5	659.4	659.3	659.1	659.0	659.1	659.3	659.4	659.5	659.6	659.2
150°	675.5	675.5	675.5	675.5	675.5	675.6	675.7	675.8	675.9	676.0	675.8
152.5°	690.1	689.8	689.6	689.3	689.1	689.3	689.6	689.8	690.1	690.2	690.0
155°	703.0	702.5	702.0	701.5	701.0	701.4	701.8	702.1	702.5	702.7	702.6
157.5°	714.3	713.6	713.0	712.3	711.7	712.2	712.7	713.2	713.7	714.0	714.0
160°	724.9	724.2	723.4	722.7	721.9	722.0	722.2	722.3	722.4	722.5	722.7
162.5°	733.4	732.7	731.9	731.2	730.4	730.5	730.7	730.8	730.9	731.0	731.3
165°	741.8	740.8	739.8	738.8	737.8	737.8	737.8	737.8	737.8	737.8	738.1
167.5°	748.0	746.9	745.8	744.6	743.5	743.6	743.7	743.8	743.9	744.0	744.3
170°	753.2	752.2	751.1	750.1	749.1	749.0	748.9	748.8	748.7	748.6	749.0
172.5°	756.6	755.6	754.5	753.5	752.5	752.4	752.3	752.2	752.1	752.0	752.4
175°	759.3	758.2	757.1	755.9	754.8	754.7	754.5	754.4	754.3	754.2	754.6
177.5°	760.5	759.5	758.5	757.5	756.5	756.3	756.0	755.8	755.5	755.4	755.8
180°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1644.5	1644.5	1644.5	1644.5
2.5°	1599.6	1613.2	1625.5	1644.5
5°	1564.2	1583.2	1609.1	1637.7
7.5°	1523.3	1553.3	1587.3	1626.8
10°	1485.1	1519.2	1562.8	1610.5
12.5°	1445.6	1486.5	1534.2	1586.0
15°	1400.7	1441.5	1494.7	1564.2
17.5°	1359.8	1408.8	1466.1	1539.6
20°	1312.1	1358.4	1421.1	1505.6
22.5°	1269.9	1323.0	1392.5	1466.1
25°	1223.5	1269.9	1339.3	1427.9
27.5°	1177.2	1234.4	1301.2	1387.0
30°	1132.2	1179.9	1252.1	1342.1
32.5°	1083.2	1140.4	1207.2	1291.7
35°	1030.1	1084.6	1147.2	1238.5
37.5°	982.4	1035.5	1099.5	1179.9
40°	929.2	985.1	1043.7	1124.1
42.5°	877.5	927.9	986.5	1060.0
45°	827.0	870.6	923.8	987.8
47.5°	775.3	812.1	861.1	918.3
50°	719.4	758.9	795.7	843.4
52.5°	667.6	701.7	731.7	771.2
55°	617.2	640.4	664.9	694.9
57.5°	564.1	581.8	599.5	630.8
60°	510.9	527.3	536.8	557.3
62.5°	459.2	466.0	478.2	490.5
65°	401.9	411.5	418.3	433.3
67.5°	350.2	354.3	361.1	370.6
70°	295.7	305.2	307.9	314.7
72.5°	249.3	253.4	256.2	257.5
75°	197.6	201.7	204.4	212.6
77.5°	155.3	154.0	159.4	160.8
80°	114.5	110.4	111.7	117.2
82.5°	74.9	76.3	74.9	74.9
85°	46.3	45.0	42.2	43.6
87.5°	20.4	20.4	19.1	19.1
90°	5.8	4.5	3.1	1.7
92.5°	7.8	8.0	8.3	8.5
95°	18.3	22.6	26.9	31.2
97.5°	67.8	65.1	62.3	59.5
100°	99.7	97.4	95.2	92.9
102.5°	134.8	133.3	131.8	130.3
105°	172.9	172.1	171.4	170.6
107.5°	208.5	208.2	207.8	207.4
110°	245.9	245.6	245.2	244.8

TEST NUMBER: P1012886

CATALOG NUMBER: S124DIP-B1020D590UB2750-4F0-XX-W2A-A_2700K

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	283.4	282.6	281.9	281.1
115°	319.6	319.3	318.9	318.5
117.5°	353.4	352.9	352.4	351.9
120°	387.4	386.9	386.4	385.9
122.5°	418.4	418.1	417.9	417.6
125°	449.2	448.7	448.2	447.7
127.5°	476.9	476.8	476.7	476.6
130°	504.7	504.6	504.4	504.3
132.5°	530.6	530.3	530.1	529.8
135°	555.0	555.1	555.2	555.3
137.5°	578.0	578.0	578.0	578.0
140°	600.8	600.6	600.3	600.1
142.5°	621.4	620.9	620.4	619.9
145°	641.4	641.1	640.7	640.3
147.5°	658.5	657.7	657.0	656.2
150°	675.3	674.8	674.3	673.8
152.5°	689.6	689.3	688.9	688.5
155°	702.5	702.4	702.2	702.1
157.5°	714.0	714.0	714.0	714.0
160°	723.1	723.4	723.8	724.2
162.5°	731.8	732.3	732.8	733.3
165°	738.7	739.4	740.0	740.6
167.5°	745.0	745.6	746.3	746.9
170°	749.7	750.5	751.2	752.0
172.5°	753.1	753.9	754.6	755.4
175°	755.3	756.1	756.8	757.6
177.5°	756.7	757.6	758.4	759.3
180°	757.6	757.6	757.6	757.6

(END OF REPORT)