

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: P1031511

Luminaire Tested: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031511
REPORT IS A COMBINATION OF REPORTS P991096 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D460UB40-4F0-XX-W2A-A1
Description: Define 3 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

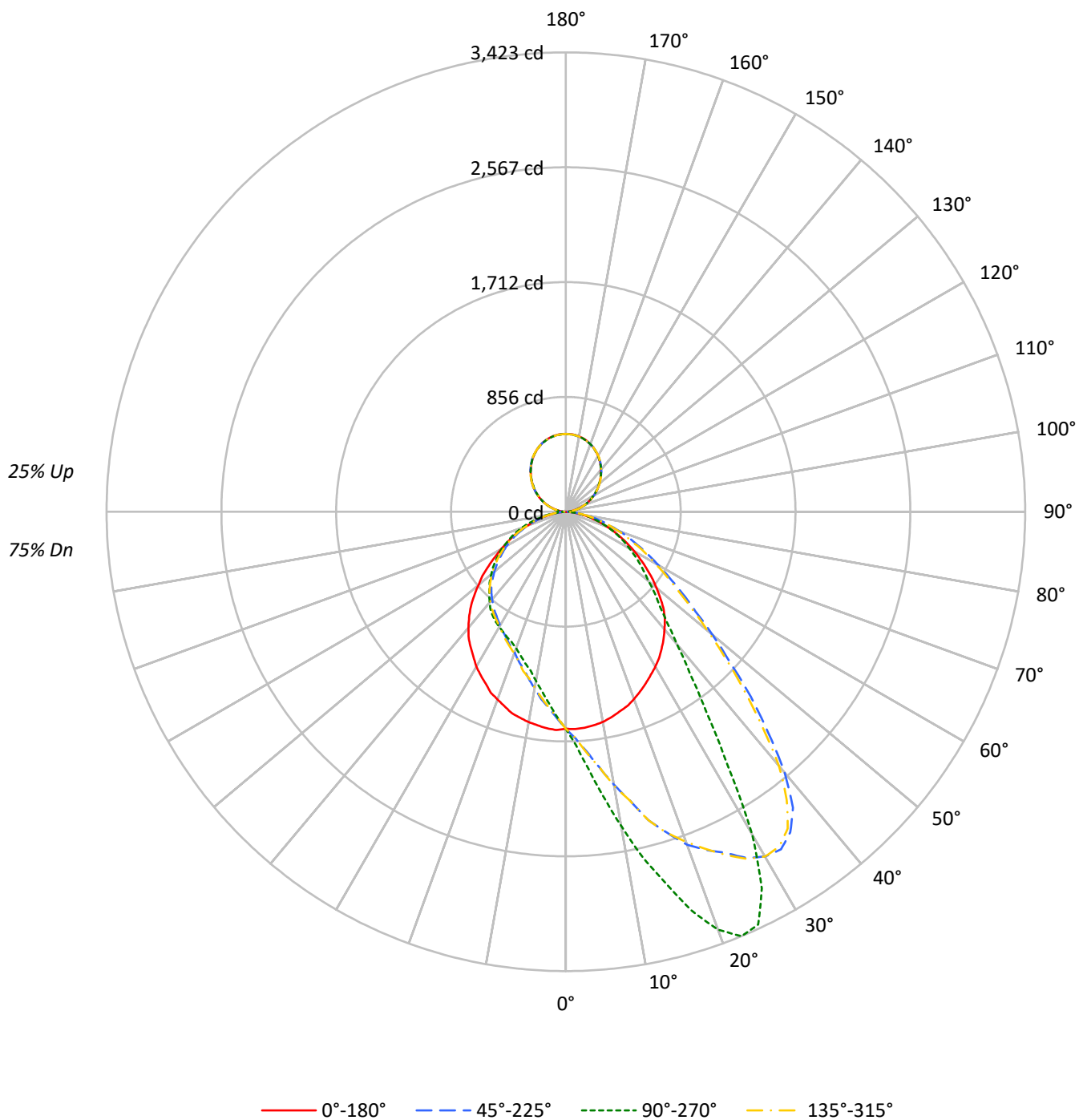
Lumens per Lamp: N/A
Luminaire Lumens: 6487.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	104	100	96	92	99	95	91	88	86	84	81	78	76	74	71	69	68
2	95	87	81	76	90	83	78	73	76	72	68	69	66	63	63	60	58
3	87	77	70	64	82	74	67	62	67	62	58	61	57	53	56	53	50
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43
5	73	61	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38
6	68	55	47	41	64	53	46	40	49	42	38	45	40	35	41	37	33
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30
8	58	46	38	32	56	44	37	31	41	34	30	38	32	28	35	30	27
9	55	42	34	29	52	40	33	28	37	31	27	35	29	25	32	27	24
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	17400	17400	17400	17400
5°	17412	20048	17463	14963
10°	17301	24262	17319	13067
15°	17062	28772	17201	11762
20°	16857	33127	16892	10823
25°	16551	33962	16587	10333
30°	16332	28058	16332	10011
35°	16061	18765	15961	9728
40°	15738	13546	15543	9295
45°	15331	10730	14888	8754
50°	14341	9113	13832	8225
55°	13254	8007	12716	7633
60°	12154	6972	11506	7012
65°	10943	5970	10414	6184
70°	9686	4955	9041	5213
75°	8281	3737	7745	4024
80°	6547	2496	6037	2644
85°	4515	1146	3612	1042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 28063 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	2.5
10°-20°	510.6	7.9
20°-30°	859.2	13.2
30°-40°	971.0	15.0
40°-50°	869.7	13.4
50°-60°	702.0	10.8
60°-70°	489.2	7.5
70°-80°	256.8	4.0
80°-90°	62.8	1.0
90°-100°	37.3	0.6
100°-110°	113.0	1.7
110°-120°	192.4	3.0
120°-130°	253.0	3.9
130°-140°	284.4	4.4
140°-150°	279.6	4.3
150°-160°	235.4	3.6
160°-170°	156.7	2.4
170°-180°	54.9	0.8
0°-30°	1528.8	23.6
0°-40°	2499.8	38.5
0°-60°	4071.5	62.8
0°-90°	4880.2	75.2
90°-120°	342.7	5.3
90°-150°	1159.8	17.9
90°-180°	1607.0	24.8
0°-180°	6487.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1616	1616	1616	1616	1616	
5°	1615	1920	1620	1433	1615	153
15°	1541	2859	1554	1169	1541	436
25°	1410	3393	1413	1032	1410	650
35°	1244	1828	1236	948	1244	778
45°	1032	987	1002	805	1032	790
55°	732	670	702	639	732	655
65°	453	436	431	451	453	451
75°	218	224	204	241	218	233
85°	47	52	38	47	47	54
90°	0	14	0	14	0	5
95°	27	36	27	36	27	30
105°	102	108	102	108	102	110
115°	194	194	194	194	194	192
125°	283	280	283	280	283	253
135°	368	367	368	367	368	283
145°	446	446	446	446	446	279
155°	511	510	511	510	511	235
165°	556	554	556	554	556	157
175°	578	576	578	576	578	55
180°	580	580	580	580	580	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1621.2	1633.8	1640.0	1649.4	1658.8	1672.9	1677.6	1685.5	1682.3	1688.6	1691.7
5°	1615.0	1636.9	1655.7	1679.2	1701.1	1716.8	1732.5	1757.5	1776.3	1779.5	1793.6
7.5°	1604.0	1635.3	1668.2	1701.1	1743.4	1768.5	1796.7	1831.1	1859.3	1904.8	1922.0
10°	1589.9	1633.8	1680.8	1726.2	1784.2	1823.3	1857.8	1915.7	1973.7	2020.7	2064.5
12.5°	1568.0	1622.8	1683.9	1751.3	1826.4	1871.9	1918.9	1995.6	2083.3	2155.4	2202.4
15°	1541.4	1610.3	1688.6	1760.7	1843.7	1928.3	1978.4	2064.5	2189.9	2257.2	2377.8
17.5°	1519.4	1589.9	1668.2	1781.0	1893.8	1978.4	2014.4	2172.6	2258.8	2371.6	2507.8
20°	1485.0	1574.3	1674.5	1787.3	1933.0	1984.7	2058.3	2218.1	2324.6	2471.8	2639.4
22.5°	1448.9	1544.5	1665.1	1782.6	1945.5	2000.3	2100.6	2227.5	2396.6	2542.3	2727.1
25°	1409.8	1513.2	1635.3	1774.8	1934.5	2014.4	2108.4	2265.0	2448.3	2631.6	2802.3
27.5°	1370.6	1483.4	1610.3	1749.7	1904.8	1998.8	2092.7	2255.6	2490.6	2689.5	2907.3
30°	1333.0	1445.8	1572.7	1715.2	1878.1	1969.0	2058.3	2261.9	2523.5	2747.5	2966.8
32.5°	1292.3	1408.2	1541.4	1660.4	1824.9	1922.0	2022.3	2261.9	2543.9	2782.0	2982.5
35°	1243.7	1362.8	1477.1	1596.2	1759.1	1867.2	1980.0	2246.2	2562.7	2792.9	2916.7
37.5°	1196.7	1301.7	1400.4	1516.3	1687.0	1803.0	1933.0	2227.5	2553.3	2745.9	2780.4
40°	1143.5	1248.4	1328.3	1436.4	1616.5	1751.3	1882.8	2202.4	2512.5	2634.7	2534.5
42.5°	1091.8	1174.8	1243.7	1348.7	1544.5	1676.1	1818.6	2157.0	2432.7	2457.7	2232.2
45°	1032.3	1091.8	1152.9	1271.9	1466.2	1600.9	1759.1	2091.2	2304.2	2232.2	1947.1
47.5°	955.5	1008.8	1076.1	1185.8	1383.2	1522.6	1672.9	2006.6	2117.8	1967.4	1655.7
50°	881.9	927.3	990.0	1096.5	1295.4	1431.7	1591.5	1873.4	1928.3	1691.7	1427.0
52.5°	808.3	842.7	903.8	1010.3	1209.3	1340.9	1486.5	1737.2	1705.8	1452.1	1217.1
55°	731.5	761.3	819.2	924.2	1109.0	1234.3	1373.8	1569.6	1488.1	1246.9	1058.9
57.5°	656.3	687.7	747.2	834.9	1008.8	1131.0	1242.2	1395.7	1273.5	1080.8	914.8
60°	589.0	615.6	661.0	747.2	905.4	1004.1	1105.9	1210.8	1109.0	922.6	795.7
62.5°	518.5	543.5	585.8	664.2	800.4	888.2	969.6	1055.8	943.0	806.7	693.9
65°	452.7	473.1	512.2	584.3	695.5	767.5	833.3	892.9	802.0	676.7	592.1
67.5°	393.2	410.4	443.3	507.5	601.5	653.2	706.5	756.6	679.8	579.6	507.5
70°	328.9	343.0	372.8	419.8	495.0	548.2	587.4	625.0	556.1	476.2	427.6
72.5°	272.6	286.7	305.5	354.0	405.7	438.6	480.9	501.3	462.1	396.3	347.7
75°	217.7	228.7	245.9	277.3	325.8	347.7	374.4	390.0	354.0	310.2	280.4
77.5°	170.7	175.4	188.0	209.9	242.8	267.9	288.2	297.6	272.6	244.4	219.3
80°	120.6	126.9	136.3	155.1	180.1	188.0	200.5	211.5	195.8	170.7	155.1
82.5°	79.9	87.7	92.4	100.3	115.9	125.3	128.4	137.8	123.7	114.3	108.1
85°	47.0	50.1	51.7	56.4	64.2	68.9	73.6	75.2	72.1	70.5	64.2
87.5°	23.5	23.5	23.5	26.6	28.2	31.3	32.9	32.9	32.9	31.3	29.8
90°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.6	10.9
92.5°	13.7	14.3	14.9	15.5	16.1	16.4	16.7	17.3	17.9	18.5	19.1
95°	26.9	27.6	28.3	29.0	29.7	30.1	30.5	31.3	32.1	32.9	33.7
97.5°	44.2	44.7	45.2	45.7	46.2	46.5	46.8	47.4	48.0	48.6	49.2
100°	62.0	62.6	63.2	63.8	64.4	64.7	65.0	65.5	66.0	66.5	67.0
102.5°	82.5	82.8	83.1	83.4	83.7	83.8	84.2	84.9	85.6	86.3	87.0
105°	102.5	102.7	102.9	103.1	103.3	103.4	103.9	104.8	105.7	106.6	107.5
107.5°	126.2	126.3	126.4	126.5	126.6	126.6	126.8	127.2	127.7	128.1	128.5
110°	148.0	148.2	148.4	148.7	148.9	149.0	149.1	149.3	149.5	149.7	149.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	170.8	170.9	171.0	171.1	171.2	171.3	171.3	171.3	171.3	171.3	171.3
115°	193.6	193.9	194.2	194.5	194.8	195.0	194.9	194.7	194.5	194.3	194.1
117.5°	216.8	216.9	217.0	217.1	217.2	217.3	217.2	217.0	216.8	216.6	216.4
120°	238.2	238.8	239.4	240.1	240.7	241.0	240.7	240.2	239.7	239.2	238.7
122.5°	260.6	261.0	261.4	261.8	262.2	262.4	262.3	262.1	261.9	261.7	261.5
125°	283.3	283.6	283.9	284.2	284.5	284.7	284.6	284.4	284.2	284.0	283.8
127.5°	304.3	304.9	305.5	306.1	306.7	307.0	306.9	306.7	306.5	306.3	306.1
130°	325.2	326.0	326.8	327.7	328.5	328.9	328.7	328.4	328.1	327.8	327.5
132.5°	346.2	347.0	347.8	348.6	349.4	349.8	349.7	349.5	349.3	349.1	348.9
135°	367.6	368.2	368.8	369.4	370.0	370.3	370.3	370.2	370.1	370.0	369.9
137.5°	387.2	387.7	388.2	388.7	389.2	389.5	389.6	389.9	390.2	390.5	390.8
140°	407.7	408.2	408.7	409.2	409.7	410.0	410.0	410.1	410.2	410.3	410.4
142.5°	426.4	426.9	427.4	427.9	428.4	428.7	428.8	429.0	429.2	429.4	429.6
145°	446.0	446.2	446.4	446.6	446.8	446.9	447.0	447.3	447.6	447.9	448.2
147.5°	462.8	463.2	463.6	464.0	464.4	464.6	464.8	465.1	465.4	465.7	466.0
150°	480.6	480.8	481.0	481.2	481.4	481.5	481.6	481.8	482.0	482.2	482.4
152.5°	495.2	495.5	495.8	496.1	496.4	496.5	496.6	496.7	496.8	496.9	497.0
155°	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.8	510.9	511.0	511.1
157.5°	523.9	523.8	523.7	523.6	523.5	523.4	523.5	523.6	523.7	523.8	523.9
160°	536.2	536.0	535.8	535.5	535.3	535.2	535.2	535.2	535.2	535.2	535.2
162.5°	547.1	546.8	546.5	546.2	545.9	545.7	545.8	545.9	546.0	546.1	546.2
165°	556.2	555.9	555.6	555.3	555.0	554.8	554.8	554.8	554.8	554.8	554.8
167.5°	563.9	563.5	563.1	562.7	562.3	562.1	562.2	562.3	562.4	562.5	562.6
170°	570.3	569.9	569.5	569.1	568.7	568.5	568.5	568.5	568.5	568.5	568.5
172.5°	575.3	574.9	574.5	574.1	573.7	573.5	573.5	573.5	573.5	573.5	573.5
175°	578.5	578.1	577.7	577.3	576.9	576.7	576.7	576.7	576.7	576.7	576.7
177.5°	580.3	579.9	579.5	579.1	578.7	578.5	578.5	578.5	578.5	578.5	578.5
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1702.7	1705.8	1716.8	1724.6	1740.3	1738.7	1738.7	1737.2	1732.5	1740.3	1745.0
5°	1821.7	1848.4	1851.5	1886.0	1887.5	1901.6	1911.0	1903.2	1922.0	1920.4	1906.3
7.5°	1969.0	2005.0	2022.3	2055.1	2092.7	2083.3	2119.4	2125.6	2122.5	2138.2	2149.1
10°	2130.3	2193.0	2236.9	2297.9	2313.6	2323.0	2346.5	2366.9	2407.6	2376.3	2396.6
12.5°	2315.2	2360.6	2418.6	2515.7	2564.2	2595.6	2606.5	2620.6	2648.8	2631.6	2633.2
15°	2470.2	2531.3	2630.0	2750.6	2764.7	2803.9	2794.5	2879.1	2919.8	2858.7	2893.2
17.5°	2631.6	2713.0	2830.5	2935.5	2995.0	3021.6	3046.7	3128.1	3125.0	3115.6	3123.4
20°	2735.0	2868.1	3013.8	3153.2	3170.4	3190.8	3258.2	3292.6	3286.4	3313.0	3330.2
22.5°	2880.7	3021.6	3176.7	3269.1	3308.3	3331.8	3385.0	3407.0	3416.4	3422.6	3411.7
25°	3002.8	3153.2	3267.6	3349.0	3372.5	3385.0	3402.3	3408.5	3403.8	3392.9	3402.3
27.5°	3085.9	3206.5	3284.8	3322.4	3309.8	3289.5	3256.6	3234.7	3186.1	3162.6	3190.8
30°	3120.3	3173.6	3197.1	3134.4	3071.8	3021.6	2959.0	2843.1	2752.2	2778.8	2742.8
32.5°	3065.5	3031.0	2918.2	2756.9	2708.3	2626.9	2449.9	2313.6	2318.3	2246.2	2276.0
35°	2904.1	2747.5	2534.5	2290.1	2225.9	2182.0	1987.8	1958.0	1895.4	1828.0	1846.8
37.5°	2619.1	2390.4	2131.9	1951.8	1856.2	1760.7	1651.0	1585.2	1547.6	1519.4	1541.4
40°	2271.3	1992.5	1779.5	1618.1	1536.7	1475.6	1400.4	1334.6	1292.3	1287.6	1295.4
42.5°	1929.8	1694.9	1499.1	1345.6	1318.9	1246.9	1198.3	1146.6	1134.1	1113.7	1124.7
45°	1633.8	1442.7	1281.3	1156.0	1124.7	1105.9	1046.4	1013.5	999.4	986.8	1005.6
47.5°	1419.2	1218.7	1101.2	1026.0	994.7	963.3	930.5	908.5	897.6	899.1	897.6
50°	1212.4	1065.2	961.8	903.8	885.0	863.1	836.5	822.4	817.7	803.6	814.5
52.5°	1043.2	936.7	864.7	809.8	795.7	780.1	758.1	750.3	739.4	736.2	736.2
55°	907.0	823.9	766.0	730.0	712.7	700.2	687.7	678.3	670.4	670.4	670.4
57.5°	800.4	728.4	686.1	654.8	648.5	636.0	621.9	621.9	610.9	609.3	614.0
60°	709.6	645.4	612.5	585.8	576.4	573.3	559.2	559.2	556.1	548.2	554.5
62.5°	617.2	570.2	542.0	521.6	512.2	512.2	501.3	493.4	493.4	495.0	491.9
65°	532.6	498.1	473.1	457.4	452.7	446.4	444.9	438.6	433.9	435.5	433.9
67.5°	457.4	430.8	413.5	401.0	393.2	390.0	385.3	385.3	382.2	383.8	375.9
70°	390.0	363.4	349.3	336.8	333.6	333.6	327.4	328.9	325.8	330.5	327.4
72.5°	321.1	300.8	289.8	285.1	282.0	280.4	277.3	274.1	272.6	275.7	274.1
75°	260.0	242.8	235.0	231.8	228.7	228.7	227.1	225.6	224.0	224.0	224.0
77.5°	202.1	191.1	181.7	184.8	180.1	181.7	177.0	177.0	178.6	177.0	177.0
80°	148.8	141.0	141.0	137.8	131.6	134.7	134.7	130.0	128.4	131.6	126.9
82.5°	98.7	97.1	94.0	92.4	89.3	90.9	89.3	87.7	86.2	89.3	86.2
85°	58.0	58.0	56.4	53.3	56.4	54.8	53.3	53.3	51.7	51.7	51.7
87.5°	29.8	26.6	26.6	25.1	26.6	23.5	25.1	23.5	21.9	23.5	21.9
90°	11.3	11.7	12.2	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	19.4	19.7	20.0	20.3	20.5	20.4	20.2	20.0	19.8	19.6	19.8
95°	34.1	34.5	34.9	35.3	35.5	35.5	35.5	35.5	35.5	35.5	35.5
97.5°	49.7	50.2	50.7	51.2	51.5	51.4	51.3	51.2	51.1	51.0	51.1
100°	67.3	67.6	67.9	68.2	68.3	68.4	68.6	68.8	69.0	69.2	69.0
102.5°	87.3	87.6	87.9	88.2	88.4	88.3	88.2	88.1	88.0	87.9	88.0
105°	107.5	107.5	107.5	107.5	107.5	107.6	107.8	108.0	108.2	108.4	108.2
107.5°	128.8	129.1	129.4	129.7	129.8	129.8	129.7	129.6	129.5	129.4	129.5
110°	150.3	150.7	151.1	151.5	151.7	151.6	151.4	151.2	151.0	150.8	151.0

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	171.8	172.3	172.8	173.3	173.6	173.6	173.6	173.6	173.6	173.6	173.6
115°	194.2	194.3	194.4	194.5	194.5	194.5	194.4	194.3	194.2	194.1	194.2
117.5°	216.4	216.4	216.4	216.4	216.4	216.2	215.9	215.6	215.3	215.0	215.3
120°	238.6	238.5	238.4	238.3	238.2	238.1	237.9	237.7	237.5	237.3	237.5
122.5°	261.2	260.9	260.6	260.3	260.1	259.9	259.6	259.3	259.0	258.7	259.0
125°	283.4	283.0	282.6	282.2	282.0	281.8	281.4	281.0	280.6	280.2	280.6
127.5°	305.5	304.9	304.3	303.7	303.4	303.2	302.8	302.4	302.0	301.6	302.0
130°	327.1	326.7	326.3	325.9	325.7	325.3	324.6	323.9	323.2	322.5	323.2
132.5°	348.4	347.9	347.4	346.9	346.7	346.4	345.9	345.4	344.9	344.4	344.9
135°	369.5	369.1	368.7	368.3	368.1	368.0	367.8	367.6	367.4	367.2	367.4
137.5°	390.3	389.8	389.3	388.8	388.6	388.4	388.1	387.8	387.5	387.2	387.5
140°	410.3	410.2	410.1	410.0	410.0	409.6	408.9	408.2	407.5	406.8	407.5
142.5°	429.5	429.4	429.3	429.2	429.1	428.8	428.3	427.8	427.3	426.8	427.3
145°	448.1	448.0	447.9	447.8	447.8	447.6	447.2	446.8	446.4	446.0	446.4
147.5°	466.0	466.0	466.0	466.0	466.0	465.7	465.1	464.5	463.9	463.3	463.9
150°	482.4	482.4	482.4	482.4	482.4	482.1	481.5	480.9	480.3	479.7	480.3
152.5°	497.2	497.4	497.6	497.8	497.9	497.6	497.1	496.6	496.1	495.6	496.1
155°	511.5	511.9	512.3	512.7	512.9	512.5	511.8	511.1	510.4	509.7	510.4
157.5°	524.3	524.7	525.1	525.5	525.7	525.4	524.8	524.2	523.6	523.0	523.6
160°	535.7	536.2	536.7	537.2	537.5	537.3	536.9	536.5	536.1	535.7	536.1
162.5°	546.7	547.2	547.7	548.2	548.5	548.1	547.4	546.7	546.0	545.3	546.0
165°	555.4	556.0	556.7	557.3	557.6	557.2	556.5	555.8	555.1	554.4	555.1
167.5°	563.2	563.8	564.4	565.0	565.3	565.0	564.4	563.8	563.2	562.6	563.2
170°	569.2	569.9	570.6	571.3	571.7	571.3	570.6	569.9	569.2	568.5	569.2
172.5°	574.1	574.7	575.3	575.9	576.2	575.9	575.2	574.5	573.8	573.1	573.8
175°	577.3	577.9	578.5	579.1	579.4	579.0	578.3	577.6	576.9	576.2	576.9
177.5°	579.1	579.7	580.4	581.0	581.3	580.9	580.2	579.5	578.8	578.1	578.8
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1732.5	1737.2	1724.6	1721.5	1721.5	1727.8	1723.1	1680.8	1688.6	1679.2	1676.1
5°	1923.6	1914.2	1901.6	1895.4	1887.5	1865.6	1864.0	1815.5	1806.1	1774.8	1760.7
7.5°	2133.5	2125.6	2088.0	2083.3	2080.2	2059.8	2008.2	1956.5	1918.9	1882.8	1848.4
10°	2373.1	2349.6	2332.4	2297.9	2280.7	2252.5	2185.2	2136.6	2072.4	2017.6	1945.5
12.5°	2661.4	2634.7	2576.8	2551.7	2529.8	2451.5	2384.1	2329.3	2204.0	2166.4	2077.1
15°	2872.8	2816.4	2810.2	2755.3	2752.2	2666.1	2537.6	2478.1	2381.0	2243.1	2150.7
17.5°	3101.5	3051.4	3012.2	2946.4	2937.0	2855.6	2761.6	2615.9	2509.4	2377.8	2260.3
20°	3269.1	3242.5	3175.1	3148.5	3093.7	3024.8	2927.6	2747.5	2617.5	2485.9	2341.8
22.5°	3402.3	3375.6	3322.4	3286.4	3255.0	3165.7	3049.8	2896.3	2717.7	2545.4	2396.6
25°	3400.7	3392.9	3370.9	3353.7	3330.2	3264.4	3167.3	3020.1	2821.1	2631.6	2424.8
27.5°	3208.0	3230.0	3267.6	3286.4	3281.7	3272.3	3217.4	3093.7	2915.1	2689.5	2457.7
30°	2807.0	2886.9	2957.4	3051.4	3079.6	3148.5	3179.8	3109.3	2966.8	2756.9	2500.0
32.5°	2327.7	2443.6	2597.1	2648.8	2738.1	2871.3	3020.1	3046.7	2957.4	2796.1	2526.6
35°	1909.5	2005.0	2124.1	2205.5	2285.4	2501.6	2689.5	2852.5	2882.2	2775.7	2520.4
37.5°	1580.5	1647.9	1752.8	1821.7	1895.4	2080.2	2343.4	2554.8	2703.6	2706.8	2503.1
40°	1342.4	1372.2	1463.0	1513.2	1583.7	1743.4	1978.4	2254.1	2471.8	2572.1	2457.7
42.5°	1137.2	1176.4	1251.6	1289.2	1334.6	1474.0	1629.1	1890.7	2160.1	2374.7	2373.1
45°	1015.0	1043.2	1077.7	1109.0	1160.7	1243.7	1420.7	1616.5	1875.0	2117.8	2213.4
47.5°	907.0	933.6	968.0	977.4	1011.9	1090.2	1198.3	1369.1	1610.3	1851.5	2031.6
50°	816.1	838.0	861.5	878.8	894.4	958.7	1040.1	1184.2	1376.9	1610.3	1834.3
52.5°	745.6	761.3	781.6	791.0	805.1	852.1	914.8	1021.3	1179.5	1392.5	1610.3
55°	679.8	690.8	703.3	719.0	725.3	759.7	808.3	899.1	1016.6	1207.7	1414.5
57.5°	618.7	623.4	631.3	640.7	648.5	678.3	720.6	781.6	885.0	1032.3	1228.1
60°	549.8	562.3	567.0	576.4	581.1	604.6	637.5	689.2	769.1	896.0	1043.2
62.5°	491.9	499.7	507.5	512.2	523.2	531.0	557.6	604.6	670.4	764.4	897.6
65°	440.2	443.3	448.0	452.7	455.8	465.2	490.3	521.6	571.7	654.8	758.1
67.5°	380.6	383.8	390.0	391.6	394.7	407.3	421.4	448.0	490.3	552.9	637.5
70°	322.7	327.4	330.5	333.6	338.3	343.0	358.7	380.6	413.5	457.4	523.2
72.5°	272.6	277.3	277.3	280.4	278.8	285.1	300.8	316.4	338.3	374.4	432.3
75°	222.4	222.4	225.6	227.1	228.7	235.0	241.2	253.8	271.0	299.2	335.2
77.5°	175.4	173.9	177.0	177.0	177.0	181.7	188.0	194.2	205.2	225.6	253.8
80°	128.4	128.4	131.6	133.1	130.0	131.6	134.7	141.0	148.8	162.9	178.6
82.5°	84.6	90.9	89.3	90.9	89.3	92.4	94.0	95.6	98.7	105.0	115.9
85°	51.7	51.7	51.7	53.3	51.7	53.3	53.3	53.3	54.8	58.0	62.7
87.5°	21.9	21.9	21.9	23.5	21.9	21.9	23.5	21.9	23.5	23.5	25.1
90°	13.3	13.1	12.9	12.8	12.6	12.2	11.7	11.3	10.9	9.6	8.3
92.5°	20.0	20.2	20.4	20.5	20.3	20.0	19.7	19.4	19.1	18.5	17.9
95°	35.5	35.5	35.5	35.5	35.3	34.9	34.5	34.1	33.7	32.9	32.1
97.5°	51.2	51.3	51.4	51.5	51.2	50.7	50.2	49.7	49.2	48.6	48.0
100°	68.8	68.6	68.4	68.3	68.2	67.9	67.6	67.3	67.0	66.5	66.0
102.5°	88.1	88.2	88.3	88.4	88.2	87.9	87.6	87.3	87.0	86.3	85.6
105°	108.0	107.8	107.6	107.5	107.5	107.5	107.5	107.5	107.5	106.6	105.7
107.5°	129.6	129.7	129.8	129.8	129.7	129.4	129.1	128.8	128.5	128.1	127.7
110°	151.2	151.4	151.6	151.7	151.5	151.1	150.7	150.3	149.9	149.7	149.5

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	173.6	173.6	173.6	173.6	173.3	172.8	172.3	171.8	171.3	171.3	171.3
115°	194.3	194.4	194.5	194.5	194.5	194.4	194.3	194.2	194.1	194.3	194.5
117.5°	215.6	215.9	216.2	216.4	216.4	216.4	216.4	216.4	216.4	216.6	216.8
120°	237.7	237.9	238.1	238.2	238.3	238.4	238.5	238.6	238.7	239.2	239.7
122.5°	259.3	259.6	259.9	260.1	260.3	260.6	260.9	261.2	261.5	261.7	261.9
125°	281.0	281.4	281.8	282.0	282.2	282.6	283.0	283.4	283.8	284.0	284.2
127.5°	302.4	302.8	303.2	303.4	303.7	304.3	304.9	305.5	306.1	306.3	306.5
130°	323.9	324.6	325.3	325.7	325.9	326.3	326.7	327.1	327.5	327.8	328.1
132.5°	345.4	345.9	346.4	346.7	346.9	347.4	347.9	348.4	348.9	349.1	349.3
135°	367.6	367.8	368.0	368.1	368.3	368.7	369.1	369.5	369.9	370.0	370.1
137.5°	387.8	388.1	388.4	388.6	388.8	389.3	389.8	390.3	390.8	390.5	390.2
140°	408.2	408.9	409.6	410.0	410.0	410.1	410.2	410.3	410.4	410.3	410.2
142.5°	427.8	428.3	428.8	429.1	429.2	429.3	429.4	429.5	429.6	429.4	429.2
145°	446.8	447.2	447.6	447.8	447.8	447.9	448.0	448.1	448.2	447.9	447.6
147.5°	464.5	465.1	465.7	466.0	466.0	466.0	466.0	466.0	466.0	465.7	465.4
150°	480.9	481.5	482.1	482.4	482.4	482.4	482.4	482.4	482.4	482.2	482.0
152.5°	496.6	497.1	497.6	497.9	497.8	497.6	497.4	497.2	497.0	496.9	496.8
155°	511.1	511.8	512.5	512.9	512.7	512.3	511.9	511.5	511.1	511.0	510.9
157.5°	524.2	524.8	525.4	525.7	525.5	525.1	524.7	524.3	523.9	523.8	523.7
160°	536.5	536.9	537.3	537.5	537.2	536.7	536.2	535.7	535.2	535.2	535.2
162.5°	546.7	547.4	548.1	548.5	548.2	547.7	547.2	546.7	546.2	546.1	546.0
165°	555.8	556.5	557.2	557.6	557.3	556.7	556.0	555.4	554.8	554.8	554.8
167.5°	563.8	564.4	565.0	565.3	565.0	564.4	563.8	563.2	562.6	562.5	562.4
170°	569.9	570.6	571.3	571.7	571.3	570.6	569.9	569.2	568.5	568.5	568.5
172.5°	574.5	575.2	575.9	576.2	575.9	575.3	574.7	574.1	573.5	573.5	573.5
175°	577.6	578.3	579.0	579.4	579.1	578.5	577.9	577.3	576.7	576.7	576.7
177.5°	579.5	580.2	580.9	581.3	581.0	580.4	579.7	579.1	578.5	578.5	578.5
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1660.4	1655.7	1655.7	1652.6	1643.2	1625.9	1624.4	1627.5	1618.1	1608.7	1594.6
5°	1741.9	1712.1	1702.7	1693.3	1674.5	1643.2	1630.6	1619.7	1602.4	1582.1	1560.2
7.5°	1810.8	1768.5	1756.0	1738.7	1701.1	1657.3	1629.1	1605.6	1582.1	1553.9	1527.3
10°	1896.9	1835.8	1806.1	1781.0	1729.3	1668.2	1625.9	1591.5	1553.9	1519.4	1485.0
12.5°	1994.1	1895.4	1886.0	1824.9	1765.4	1674.5	1622.8	1572.7	1522.6	1480.3	1444.2
15°	2075.5	1967.4	1928.3	1887.5	1773.2	1660.4	1610.3	1553.9	1495.9	1450.5	1397.2
17.5°	2127.2	2037.9	1954.9	1900.1	1781.0	1680.8	1583.7	1519.4	1458.3	1395.7	1351.8
20°	2189.9	2059.8	1987.8	1914.2	1796.7	1665.1	1568.0	1488.1	1412.9	1356.5	1303.3
22.5°	2252.5	2077.1	2017.6	1937.7	1799.8	1649.4	1539.8	1459.9	1373.8	1317.4	1259.4
25°	2246.2	2102.1	2003.5	1936.1	1768.5	1635.3	1506.9	1412.9	1333.0	1261.0	1203.0
27.5°	2250.9	2073.9	1973.7	1895.4	1746.6	1615.0	1472.4	1373.8	1290.7	1215.5	1154.5
30°	2252.5	2031.6	1943.9	1849.9	1705.8	1566.4	1433.3	1333.0	1245.3	1163.9	1109.0
32.5°	2247.8	1997.2	1887.5	1803.0	1641.6	1519.4	1387.8	1281.3	1192.0	1116.9	1065.2
35°	2236.9	1956.5	1829.6	1723.1	1575.8	1452.1	1345.6	1235.9	1140.4	1071.4	1011.9
37.5°	2207.1	1912.6	1768.5	1663.5	1499.1	1373.8	1279.8	1188.9	1096.5	1015.0	964.9
40°	2185.2	1853.1	1707.4	1593.1	1416.0	1293.9	1215.5	1129.4	1038.5	964.9	916.4
42.5°	2135.0	1796.7	1644.7	1508.5	1334.6	1209.3	1135.7	1066.7	988.4	916.4	872.5
45°	2053.6	1735.6	1568.0	1430.1	1245.3	1126.3	1058.9	1002.5	933.6	864.7	820.8
47.5°	1939.2	1647.9	1486.5	1348.7	1157.6	1037.0	969.6	927.3	872.5	814.5	776.9
50°	1815.5	1552.3	1403.5	1267.2	1073.0	955.5	889.7	850.6	814.5	761.3	725.3
52.5°	1654.1	1450.5	1308.0	1177.9	982.1	869.4	811.4	783.2	745.6	708.0	676.7
55°	1497.5	1318.9	1201.4	1077.7	892.9	787.9	731.5	701.8	679.8	648.5	623.4
57.5°	1315.8	1196.7	1088.7	975.9	809.8	714.3	661.0	625.0	610.9	596.8	573.3
60°	1148.2	1057.3	969.6	875.6	723.7	637.5	585.8	557.6	543.5	534.1	518.5
62.5°	994.7	924.2	849.0	773.8	636.0	557.6	518.5	490.3	477.8	476.2	462.1
65°	847.4	797.3	736.2	662.6	554.5	485.6	448.0	430.8	416.7	416.7	405.7
67.5°	700.2	665.7	617.2	565.5	480.9	416.7	382.2	366.5	358.7	358.7	350.9
70°	582.7	559.2	515.4	469.9	396.3	347.7	321.1	307.0	302.3	303.9	297.6
72.5°	473.1	448.0	412.0	379.1	324.2	288.2	269.4	253.8	245.9	247.5	245.9
75°	366.5	354.0	322.7	297.6	253.8	228.7	211.5	203.6	197.4	198.9	195.8
77.5°	275.7	256.9	239.7	222.4	195.8	175.4	161.3	153.5	148.8	148.8	148.8
80°	188.0	184.8	170.7	161.3	139.4	123.7	112.8	111.2	106.5	106.5	106.5
82.5°	122.2	114.3	106.5	100.3	87.7	78.3	73.6	70.5	68.9	67.4	70.5
85°	67.4	62.7	59.5	53.3	48.6	43.9	39.2	37.6	36.0	37.6	36.0
87.5°	26.6	21.9	21.9	20.4	18.8	17.2	17.2	14.1	14.1	12.5	12.5
90°	7.0	5.7	5.0	4.5	3.5	2.5	1.5	0.5	1.5	2.5	3.5
92.5°	17.3	16.7	16.4	16.1	15.5	14.9	14.3	13.7	14.3	14.9	15.5
95°	31.3	30.5	30.1	29.7	29.0	28.3	27.6	26.9	27.6	28.3	29.0
97.5°	47.4	46.8	46.5	46.2	45.7	45.2	44.7	44.2	44.7	45.2	45.7
100°	65.5	65.0	64.7	64.4	63.8	63.2	62.6	62.0	62.6	63.2	63.8
102.5°	84.9	84.2	83.8	83.7	83.4	83.1	82.8	82.5	82.8	83.1	83.4
105°	104.8	103.9	103.4	103.3	103.1	102.9	102.7	102.5	102.7	102.9	103.1
107.5°	127.2	126.8	126.6	126.6	126.5	126.4	126.3	126.2	126.3	126.4	126.5
110°	149.3	149.1	149.0	148.9	148.7	148.4	148.2	148.0	148.2	148.4	148.7

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	171.3	171.3	171.3	171.2	171.1	171.0	170.9	170.8	170.9	171.0	171.1
115°	194.7	194.9	195.0	194.8	194.5	194.2	193.9	193.6	193.9	194.2	194.5
117.5°	217.0	217.2	217.3	217.2	217.1	217.0	216.9	216.8	216.9	217.0	217.1
120°	240.2	240.7	241.0	240.7	240.1	239.4	238.8	238.2	238.8	239.4	240.1
122.5°	262.1	262.3	262.4	262.2	261.8	261.4	261.0	260.6	261.0	261.4	261.8
125°	284.4	284.6	284.7	284.5	284.2	283.9	283.6	283.3	283.6	283.9	284.2
127.5°	306.7	306.9	307.0	306.7	306.1	305.5	304.9	304.3	304.9	305.5	306.1
130°	328.4	328.7	328.9	328.5	327.7	326.8	326.0	325.2	326.0	326.8	327.7
132.5°	349.5	349.7	349.8	349.4	348.6	347.8	347.0	346.2	347.0	347.8	348.6
135°	370.2	370.3	370.3	370.0	369.4	368.8	368.2	367.6	368.2	368.8	369.4
137.5°	389.9	389.6	389.5	389.2	388.7	388.2	387.7	387.2	387.7	388.2	388.7
140°	410.1	410.0	410.0	409.7	409.2	408.7	408.2	407.7	408.2	408.7	409.2
142.5°	429.0	428.8	428.7	428.4	427.9	427.4	426.9	426.4	426.9	427.4	427.9
145°	447.3	447.0	446.9	446.8	446.6	446.4	446.2	446.0	446.2	446.4	446.6
147.5°	465.1	464.8	464.6	464.4	464.0	463.6	463.2	462.8	463.2	463.6	464.0
150°	481.8	481.6	481.5	481.4	481.2	481.0	480.8	480.6	480.8	481.0	481.2
152.5°	496.7	496.6	496.5	496.4	496.1	495.8	495.5	495.2	495.5	495.8	496.1
155°	510.8	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7	510.7
157.5°	523.6	523.5	523.4	523.5	523.6	523.7	523.8	523.9	523.8	523.7	523.6
160°	535.2	535.2	535.2	535.3	535.5	535.8	536.0	536.2	536.0	535.8	535.5
162.5°	545.9	545.8	545.7	545.9	546.2	546.5	546.8	547.1	546.8	546.5	546.2
165°	554.8	554.8	554.8	555.0	555.3	555.6	555.9	556.2	555.9	555.6	555.3
167.5°	562.3	562.2	562.1	562.3	562.7	563.1	563.5	563.9	563.5	563.1	562.7
170°	568.5	568.5	568.5	568.7	569.1	569.5	569.9	570.3	569.9	569.5	569.1
172.5°	573.5	573.5	573.5	573.7	574.1	574.5	574.9	575.3	574.9	574.5	574.1
175°	576.7	576.7	576.7	576.9	577.3	577.7	578.1	578.5	578.1	577.7	577.3
177.5°	578.5	578.5	578.5	578.7	579.1	579.5	579.9	580.3	579.9	579.5	579.1
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1591.5	1589.9	1593.1	1583.7	1568.0	1560.2	1538.2	1533.5	1532.0	1533.5	1535.1
5°	1547.6	1546.1	1541.4	1525.7	1506.9	1492.8	1466.2	1464.6	1455.2	1445.8	1450.5
7.5°	1505.3	1499.1	1489.7	1469.3	1444.2	1428.6	1406.6	1391.0	1378.5	1370.6	1364.4
10°	1463.0	1453.6	1444.2	1417.6	1386.3	1362.8	1336.2	1323.6	1309.5	1303.3	1297.0
12.5°	1408.2	1398.8	1381.6	1350.3	1331.5	1301.7	1275.1	1262.5	1254.7	1242.2	1234.3
15°	1364.4	1345.6	1336.2	1303.3	1264.1	1261.0	1212.4	1209.3	1193.6	1193.6	1181.1
17.5°	1314.2	1300.1	1282.9	1250.0	1221.8	1193.6	1168.6	1159.2	1145.1	1141.9	1135.7
20°	1265.7	1246.9	1240.6	1207.7	1177.9	1143.5	1116.9	1107.5	1101.2	1094.9	1099.6
22.5°	1215.5	1199.9	1184.2	1154.5	1132.5	1098.1	1082.4	1073.0	1063.6	1060.5	1062.0
25°	1167.0	1152.9	1137.2	1107.5	1084.0	1055.8	1041.7	1037.0	1032.3	1032.3	1030.7
27.5°	1120.0	1105.9	1091.8	1065.2	1041.7	1021.3	1010.3	1005.6	1000.9	1004.1	1007.2
30°	1071.4	1058.9	1046.4	1022.9	1004.1	985.3	979.0	975.9	974.3	982.1	982.1
32.5°	1027.6	1016.6	1007.2	985.3	966.5	950.8	946.1	947.7	949.3	954.0	957.1
35°	982.1	974.3	964.9	946.1	930.5	916.4	917.9	917.9	921.1	928.9	935.2
37.5°	941.4	930.5	922.6	907.0	894.4	881.9	886.6	891.3	894.4	903.8	907.0
40°	892.9	888.2	881.9	866.2	855.3	853.7	855.3	858.4	864.7	869.4	874.1
42.5°	853.7	847.4	839.6	827.1	817.7	819.2	820.8	823.9	827.1	834.9	839.6
45°	809.8	805.1	798.9	787.9	780.1	781.6	783.2	783.2	786.3	795.7	798.9
47.5°	761.3	762.8	755.0	744.1	739.4	739.4	739.4	742.5	750.3	753.4	755.0
50°	714.3	711.2	709.6	698.6	695.5	693.9	695.5	697.1	708.0	706.5	711.2
52.5°	664.2	664.2	662.6	656.3	651.6	651.6	648.5	656.3	659.5	662.6	667.3
55°	615.6	610.9	609.3	606.2	599.9	598.4	601.5	610.9	614.0	617.2	621.9
57.5°	562.3	562.3	559.2	554.5	554.5	554.5	554.5	560.8	565.5	568.6	578.0
60°	513.8	507.5	502.8	502.8	502.8	501.3	510.7	510.7	520.1	521.6	524.8
62.5°	455.8	452.7	449.6	451.1	449.6	452.7	455.8	462.1	463.7	468.4	473.1
65°	401.0	401.0	397.9	407.3	401.0	401.0	408.8	408.8	412.0	416.7	422.9
67.5°	347.7	349.3	346.2	346.2	349.3	350.9	352.4	358.7	360.3	366.5	374.4
70°	292.9	296.1	297.6	294.5	297.6	300.8	303.9	305.5	311.7	314.9	319.6
72.5°	244.4	247.5	242.8	244.4	245.9	249.1	250.6	253.8	256.9	266.3	269.4
75°	195.8	194.2	192.7	198.9	195.8	202.1	203.6	203.6	206.8	214.6	217.7
77.5°	150.4	150.4	151.9	148.8	153.5	151.9	153.5	158.2	162.9	162.9	175.4
80°	105.0	108.1	108.1	108.1	109.6	111.2	108.1	115.9	117.5	117.5	122.2
82.5°	67.4	68.9	67.4	70.5	70.5	73.6	72.1	73.6	76.8	79.9	81.5
85°	36.0	36.0	39.2	39.2	37.6	39.2	37.6	39.2	42.3	42.3	43.9
87.5°	12.5	12.5	12.5	12.5	14.1	12.5	14.1	14.1	12.5	12.5	17.2
90°	4.5	5.0	5.7	7.0	8.3	9.6	10.9	11.3	11.7	12.2	12.6
92.5°	16.1	16.4	16.7	17.3	17.9	18.5	19.1	19.4	19.7	20.0	20.3
95°	29.7	30.1	30.5	31.3	32.1	32.9	33.7	34.1	34.5	34.9	35.3
97.5°	46.2	46.5	46.8	47.4	48.0	48.6	49.2	49.7	50.2	50.7	51.2
100°	64.4	64.7	65.0	65.5	66.0	66.5	67.0	67.3	67.6	67.9	68.2
102.5°	83.7	83.8	84.2	84.9	85.6	86.3	87.0	87.3	87.6	87.9	88.2
105°	103.3	103.4	103.9	104.8	105.7	106.6	107.5	107.5	107.5	107.5	107.5
107.5°	126.6	126.6	126.8	127.2	127.7	128.1	128.5	128.8	129.1	129.4	129.7
110°	148.9	149.0	149.1	149.3	149.5	149.7	149.9	150.3	150.7	151.1	151.5

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	171.2	171.3	171.3	171.3	171.3	171.3	171.3	171.8	172.3	172.8	173.3
115°	194.8	195.0	194.9	194.7	194.5	194.3	194.1	194.2	194.3	194.4	194.5
117.5°	217.2	217.3	217.2	217.0	216.8	216.6	216.4	216.4	216.4	216.4	216.4
120°	240.7	241.0	240.7	240.2	239.7	239.2	238.7	238.6	238.5	238.4	238.3
122.5°	262.2	262.4	262.3	262.1	261.9	261.7	261.5	261.2	260.9	260.6	260.3
125°	284.5	284.7	284.6	284.4	284.2	284.0	283.8	283.4	283.0	282.6	282.2
127.5°	306.7	307.0	306.9	306.7	306.5	306.3	306.1	305.5	304.9	304.3	303.7
130°	328.5	328.9	328.7	328.4	328.1	327.8	327.5	327.1	326.7	326.3	325.9
132.5°	349.4	349.8	349.7	349.5	349.3	349.1	348.9	348.4	347.9	347.4	346.9
135°	370.0	370.3	370.3	370.2	370.1	370.0	369.9	369.5	369.1	368.7	368.3
137.5°	389.2	389.5	389.6	389.9	390.2	390.5	390.8	390.3	389.8	389.3	388.8
140°	409.7	410.0	410.0	410.1	410.2	410.3	410.4	410.3	410.2	410.1	410.0
142.5°	428.4	428.7	428.8	429.0	429.2	429.4	429.6	429.5	429.4	429.3	429.2
145°	446.8	446.9	447.0	447.3	447.6	447.9	448.2	448.1	448.0	447.9	447.8
147.5°	464.4	464.6	464.8	465.1	465.4	465.7	466.0	466.0	466.0	466.0	466.0
150°	481.4	481.5	481.6	481.8	482.0	482.2	482.4	482.4	482.4	482.4	482.4
152.5°	496.4	496.5	496.6	496.7	496.8	496.9	497.0	497.2	497.4	497.6	497.8
155°	510.7	510.7	510.7	510.8	510.9	511.0	511.1	511.5	511.9	512.3	512.7
157.5°	523.5	523.4	523.5	523.6	523.7	523.8	523.9	524.3	524.7	525.1	525.5
160°	535.3	535.2	535.2	535.2	535.2	535.2	535.2	535.7	536.2	536.7	537.2
162.5°	545.9	545.7	545.8	545.9	546.0	546.1	546.2	546.7	547.2	547.7	548.2
165°	555.0	554.8	554.8	554.8	554.8	554.8	554.8	555.4	556.0	556.7	557.3
167.5°	562.3	562.1	562.2	562.3	562.4	562.5	562.6	563.2	563.8	564.4	565.0
170°	568.7	568.5	568.5	568.5	568.5	568.5	568.5	569.2	569.9	570.6	571.3
172.5°	573.7	573.5	573.5	573.5	573.5	573.5	573.5	574.1	574.7	575.3	575.9
175°	576.9	576.7	576.7	576.7	576.7	576.7	576.7	577.3	577.9	578.5	579.1
177.5°	578.7	578.5	578.5	578.5	578.5	578.5	578.5	579.1	579.7	580.4	581.0
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1533.5	1535.1	1528.8	1524.1	1536.7	1528.8	1528.8	1530.4	1527.3	1532.0	1530.4
5°	1447.4	1448.9	1438.0	1441.1	1434.8	1433.3	1431.7	1441.1	1439.5	1438.0	1441.1
7.5°	1362.8	1362.8	1358.1	1355.0	1355.0	1350.3	1356.5	1355.0	1358.1	1358.1	1362.8
10°	1292.3	1295.4	1287.6	1279.8	1278.2	1279.8	1279.8	1281.3	1282.9	1293.9	1292.3
12.5°	1234.3	1229.6	1228.1	1223.4	1215.5	1212.4	1209.3	1226.5	1221.8	1221.8	1221.8
15°	1170.1	1181.1	1179.5	1165.4	1162.3	1168.6	1165.4	1165.4	1181.1	1179.5	1177.9
17.5°	1135.7	1132.5	1129.4	1121.6	1123.1	1121.6	1123.1	1123.1	1132.5	1132.5	1132.5
20°	1096.5	1090.2	1090.2	1087.1	1087.1	1082.4	1088.7	1090.2	1096.5	1096.5	1098.1
22.5°	1062.0	1057.3	1057.3	1055.8	1058.9	1052.6	1058.9	1060.5	1060.5	1065.2	1065.2
25°	1032.3	1029.1	1029.1	1032.3	1032.3	1032.3	1032.3	1038.5	1033.8	1035.4	1033.8
27.5°	1005.6	1007.2	1008.8	1010.3	1008.8	1010.3	1011.9	1015.0	1016.6	1015.0	1011.9
30°	980.6	985.3	986.8	986.8	990.0	991.5	993.1	993.1	994.7	990.0	993.1
32.5°	961.8	961.8	964.9	966.5	969.6	971.2	971.2	974.3	972.7	968.0	969.6
35°	935.2	935.2	941.4	944.6	949.3	947.7	949.3	949.3	950.8	947.7	943.0
37.5°	908.5	911.7	911.7	917.9	919.5	921.1	919.5	922.6	921.1	917.9	916.4
40°	877.2	875.6	877.2	881.9	883.5	883.5	883.5	886.6	886.6	886.6	885.0
42.5°	838.0	842.7	841.2	845.9	844.3	844.3	847.4	850.6	852.1	847.4	849.0
45°	800.4	800.4	803.6	803.6	805.1	805.1	811.4	808.3	811.4	808.3	809.8
47.5°	759.7	761.3	761.3	762.8	766.0	769.1	766.0	767.5	767.5	769.1	766.0
50°	714.3	714.3	717.4	722.1	728.4	725.3	723.7	730.0	725.3	725.3	722.1
52.5°	667.3	672.0	673.6	678.3	683.0	684.5	686.1	683.0	684.5	679.8	681.4
55°	621.9	623.4	629.7	634.4	639.1	639.1	637.5	639.1	640.7	634.4	634.4
57.5°	576.4	581.1	587.4	587.4	593.7	593.7	592.1	592.1	593.7	589.0	587.4
60°	527.9	532.6	540.4	540.4	549.8	551.4	548.2	545.1	545.1	540.4	542.0
62.5°	476.2	480.9	485.6	493.4	499.7	496.6	502.8	496.6	498.1	488.7	488.7
65°	430.8	432.3	440.2	448.0	448.0	451.1	448.0	449.6	444.9	444.9	438.6
67.5°	377.5	377.5	385.3	393.2	401.0	401.0	401.0	396.3	396.3	391.6	391.6
70°	330.5	328.9	336.8	341.5	346.2	347.7	344.6	343.0	339.9	335.2	333.6
72.5°	272.6	275.7	283.5	286.7	294.5	292.9	300.8	291.4	291.4	283.5	282.0
75°	220.9	224.0	231.8	236.5	241.2	241.2	245.9	241.2	235.0	231.8	230.3
77.5°	175.4	173.9	180.1	188.0	189.5	188.0	191.1	189.5	183.3	183.3	180.1
80°	125.3	130.0	136.3	134.7	141.0	139.4	139.4	136.3	136.3	131.6	134.7
82.5°	83.0	87.7	89.3	87.7	89.3	92.4	94.0	92.4	92.4	89.3	90.9
85°	43.9	43.9	47.0	48.6	47.0	47.0	48.6	53.3	50.1	47.0	50.1
87.5°	14.1	12.5	12.5	14.1	12.5	12.5	14.1	14.1	15.7	15.7	15.7
90°	12.8	12.9	13.1	13.3	13.5	13.7	13.5	13.3	13.1	12.9	12.8
92.5°	20.5	20.4	20.2	20.0	19.8	19.6	19.8	20.0	20.2	20.4	20.5
95°	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5	35.5
97.5°	51.5	51.4	51.3	51.2	51.1	51.0	51.1	51.2	51.3	51.4	51.5
100°	68.3	68.4	68.6	68.8	69.0	69.2	69.0	68.8	68.6	68.4	68.3
102.5°	88.4	88.3	88.2	88.1	88.0	87.9	88.0	88.1	88.2	88.3	88.4
105°	107.5	107.6	107.8	108.0	108.2	108.4	108.2	108.0	107.8	107.6	107.5
107.5°	129.8	129.8	129.7	129.6	129.5	129.4	129.5	129.6	129.7	129.8	129.8
110°	151.7	151.6	151.4	151.2	151.0	150.8	151.0	151.2	151.4	151.6	151.7

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	173.6	173.6	173.6	173.6	173.6	173.6	173.6	173.6	173.6	173.6	173.6
115°	194.5	194.5	194.4	194.3	194.2	194.1	194.2	194.3	194.4	194.5	194.5
117.5°	216.4	216.2	215.9	215.6	215.3	215.0	215.3	215.6	215.9	216.2	216.4
120°	238.2	238.1	237.9	237.7	237.5	237.3	237.5	237.7	237.9	238.1	238.2
122.5°	260.1	259.9	259.6	259.3	259.0	258.7	259.0	259.3	259.6	259.9	260.1
125°	282.0	281.8	281.4	281.0	280.6	280.2	280.6	281.0	281.4	281.8	282.0
127.5°	303.4	303.2	302.8	302.4	302.0	301.6	302.0	302.4	302.8	303.2	303.4
130°	325.7	325.3	324.6	323.9	323.2	322.5	323.2	323.9	324.6	325.3	325.7
132.5°	346.7	346.4	345.9	345.4	344.9	344.4	344.9	345.4	345.9	346.4	346.7
135°	368.1	368.0	367.8	367.6	367.4	367.2	367.4	367.6	367.8	368.0	368.1
137.5°	388.6	388.4	388.1	387.8	387.5	387.2	387.5	387.8	388.1	388.4	388.6
140°	410.0	409.6	408.9	408.2	407.5	406.8	407.5	408.2	408.9	409.6	410.0
142.5°	429.1	428.8	428.3	427.8	427.3	426.8	427.3	427.8	428.3	428.8	429.1
145°	447.8	447.6	447.2	446.8	446.4	446.0	446.4	446.8	447.2	447.6	447.8
147.5°	466.0	465.7	465.1	464.5	463.9	463.3	463.9	464.5	465.1	465.7	466.0
150°	482.4	482.1	481.5	480.9	480.3	479.7	480.3	480.9	481.5	482.1	482.4
152.5°	497.9	497.6	497.1	496.6	496.1	495.6	496.1	496.6	497.1	497.6	497.9
155°	512.9	512.5	511.8	511.1	510.4	509.7	510.4	511.1	511.8	512.5	512.9
157.5°	525.7	525.4	524.8	524.2	523.6	523.0	523.6	524.2	524.8	525.4	525.7
160°	537.5	537.3	536.9	536.5	536.1	535.7	536.1	536.5	536.9	537.3	537.5
162.5°	548.5	548.1	547.4	546.7	546.0	545.3	546.0	546.7	547.4	548.1	548.5
165°	557.6	557.2	556.5	555.8	555.1	554.4	555.1	555.8	556.5	557.2	557.6
167.5°	565.3	565.0	564.4	563.8	563.2	562.6	563.2	563.8	564.4	565.0	565.3
170°	571.7	571.3	570.6	569.9	569.2	568.5	569.2	569.9	570.6	571.3	571.7
172.5°	576.2	575.9	575.2	574.5	573.8	573.1	573.8	574.5	575.2	575.9	576.2
175°	579.4	579.0	578.3	577.6	576.9	576.2	576.9	577.6	578.3	579.0	579.4
177.5°	581.3	580.9	580.2	579.5	578.8	578.1	578.8	579.5	580.2	580.9	581.3
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1535.1	1538.2	1539.8	1533.5	1528.8	1536.7	1547.6	1555.5	1561.7	1569.6	1574.3
5°	1444.2	1455.2	1455.2	1458.3	1463.0	1470.9	1491.2	1505.3	1517.9	1527.3	1535.1
7.5°	1367.5	1375.3	1380.0	1387.8	1395.7	1406.6	1430.1	1450.5	1469.3	1480.3	1492.8
10°	1298.6	1304.8	1312.7	1317.4	1331.5	1347.1	1376.9	1394.1	1416.0	1433.3	1448.9
12.5°	1232.8	1254.7	1259.4	1257.8	1270.4	1287.6	1317.4	1344.0	1367.5	1384.7	1401.9
15°	1185.8	1193.6	1203.0	1201.4	1228.1	1232.8	1257.8	1289.2	1320.5	1331.5	1347.1
17.5°	1134.1	1146.6	1156.0	1160.7	1168.6	1185.8	1209.3	1232.8	1273.5	1275.1	1315.8
20°	1093.4	1105.9	1112.2	1118.4	1123.1	1143.5	1163.9	1190.5	1223.4	1240.6	1262.5
22.5°	1066.7	1073.0	1077.7	1082.4	1088.7	1099.6	1124.7	1154.5	1176.4	1195.2	1209.3
25°	1035.4	1041.7	1047.9	1051.1	1055.8	1062.0	1080.8	1104.3	1135.7	1148.2	1162.3
27.5°	1013.5	1013.5	1016.6	1016.6	1022.9	1029.1	1043.2	1065.2	1090.2	1105.9	1124.7
30°	990.0	988.4	990.0	988.4	986.8	996.2	1008.8	1027.6	1044.8	1063.6	1076.1
32.5°	966.5	964.9	964.9	966.5	960.2	964.9	971.2	988.4	1007.2	1016.6	1030.7
35°	941.4	938.3	938.3	938.3	935.2	932.0	938.3	954.0	966.5	979.0	990.0
37.5°	916.4	911.7	911.7	908.5	905.4	900.7	900.7	913.2	930.5	935.2	949.3
40°	881.9	881.9	878.8	877.2	874.1	870.9	866.2	877.2	892.9	897.6	908.5
42.5°	847.4	842.7	841.2	841.2	841.2	836.5	833.3	841.2	850.6	858.4	864.7
45°	808.3	805.1	806.7	805.1	802.0	800.4	798.9	802.0	813.0	816.1	823.9
47.5°	766.0	764.4	764.4	762.8	761.3	762.8	756.6	764.4	767.5	770.7	776.9
50°	722.1	720.6	719.0	717.4	717.4	719.0	717.4	717.4	723.7	726.8	733.1
52.5°	678.3	673.6	673.6	672.0	672.0	668.9	672.0	673.6	676.7	679.8	683.0
55°	631.3	631.3	626.6	626.6	623.4	623.4	625.0	623.4	629.7	632.8	632.8
57.5°	585.8	579.6	581.1	578.0	574.9	573.3	573.3	576.4	579.6	579.6	582.7
60°	537.3	531.0	529.5	523.2	526.3	521.6	523.2	523.2	529.5	526.3	529.5
62.5°	488.7	480.9	476.2	473.1	473.1	474.6	471.5	469.9	473.1	476.2	482.5
65°	437.0	432.3	427.6	422.9	422.9	421.4	424.5	419.8	418.2	419.8	422.9
67.5°	383.8	379.1	374.4	369.7	371.2	366.5	363.4	368.1	365.0	366.5	369.7
70°	332.1	328.9	319.6	316.4	314.9	316.4	314.9	311.7	316.4	314.9	316.4
72.5°	280.4	277.3	272.6	264.7	264.7	263.2	261.6	261.6	260.0	260.0	260.0
75°	230.3	224.0	219.3	217.7	214.6	213.0	211.5	208.3	209.9	211.5	208.3
77.5°	178.6	170.7	169.2	169.2	164.5	164.5	166.0	164.5	162.9	162.9	162.9
80°	131.6	125.3	125.3	122.2	119.0	119.0	119.0	119.0	117.5	115.9	117.5
82.5°	84.6	83.0	81.5	81.5	84.6	78.3	81.5	79.9	78.3	78.3	76.8
85°	47.0	48.6	47.0	48.6	45.4	47.0	47.0	47.0	45.4	47.0	43.9
87.5°	17.2	17.2	17.2	18.8	18.8	18.8	18.8	18.8	20.4	18.8	18.8
90°	12.6	12.2	11.7	11.3	10.9	9.6	8.3	7.0	5.7	5.0	4.5
92.5°	20.3	20.0	19.7	19.4	19.1	18.5	17.9	17.3	16.7	16.4	16.1
95°	35.3	34.9	34.5	34.1	33.7	32.9	32.1	31.3	30.5	30.1	29.7
97.5°	51.2	50.7	50.2	49.7	49.2	48.6	48.0	47.4	46.8	46.5	46.2
100°	68.2	67.9	67.6	67.3	67.0	66.5	66.0	65.5	65.0	64.7	64.4
102.5°	88.2	87.9	87.6	87.3	87.0	86.3	85.6	84.9	84.2	83.8	83.7
105°	107.5	107.5	107.5	107.5	107.5	106.6	105.7	104.8	103.9	103.4	103.3
107.5°	129.7	129.4	129.1	128.8	128.5	128.1	127.7	127.2	126.8	126.6	126.6
110°	151.5	151.1	150.7	150.3	149.9	149.7	149.5	149.3	149.1	149.0	148.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	173.3	172.8	172.3	171.8	171.3	171.3	171.3	171.3	171.3	171.3	171.2
115°	194.5	194.4	194.3	194.2	194.1	194.3	194.5	194.7	194.9	195.0	194.8
117.5°	216.4	216.4	216.4	216.4	216.4	216.6	216.8	217.0	217.2	217.3	217.2
120°	238.3	238.4	238.5	238.6	238.7	239.2	239.7	240.2	240.7	241.0	240.7
122.5°	260.3	260.6	260.9	261.2	261.5	261.7	261.9	262.1	262.3	262.4	262.2
125°	282.2	282.6	283.0	283.4	283.8	284.0	284.2	284.4	284.6	284.7	284.5
127.5°	303.7	304.3	304.9	305.5	306.1	306.3	306.5	306.7	306.9	307.0	306.7
130°	325.9	326.3	326.7	327.1	327.5	327.8	328.1	328.4	328.7	328.9	328.5
132.5°	346.9	347.4	347.9	348.4	348.9	349.1	349.3	349.5	349.7	349.8	349.4
135°	368.3	368.7	369.1	369.5	369.9	370.0	370.1	370.2	370.3	370.3	370.0
137.5°	388.8	389.3	389.8	390.3	390.8	390.5	390.2	389.9	389.6	389.5	389.2
140°	410.0	410.1	410.2	410.3	410.4	410.3	410.2	410.1	410.0	410.0	409.7
142.5°	429.2	429.3	429.4	429.5	429.6	429.4	429.2	429.0	428.8	428.7	428.4
145°	447.8	447.9	448.0	448.1	448.2	447.9	447.6	447.3	447.0	446.9	446.8
147.5°	466.0	466.0	466.0	466.0	466.0	465.7	465.4	465.1	464.8	464.6	464.4
150°	482.4	482.4	482.4	482.4	482.4	482.2	482.0	481.8	481.6	481.5	481.4
152.5°	497.8	497.6	497.4	497.2	497.0	496.9	496.8	496.7	496.6	496.5	496.4
155°	512.7	512.3	511.9	511.5	511.1	511.0	510.9	510.8	510.7	510.7	510.7
157.5°	525.5	525.1	524.7	524.3	523.9	523.8	523.7	523.6	523.5	523.4	523.5
160°	537.2	536.7	536.2	535.7	535.2	535.2	535.2	535.2	535.2	535.2	535.3
162.5°	548.2	547.7	547.2	546.7	546.2	546.1	546.0	545.9	545.8	545.7	545.9
165°	557.3	556.7	556.0	555.4	554.8	554.8	554.8	554.8	554.8	554.8	555.0
167.5°	565.0	564.4	563.8	563.2	562.6	562.5	562.4	562.3	562.2	562.1	562.3
170°	571.3	570.6	569.9	569.2	568.5	568.5	568.5	568.5	568.5	568.5	568.7
172.5°	575.9	575.3	574.7	574.1	573.5	573.5	573.5	573.5	573.5	573.5	573.7
175°	579.1	578.5	577.9	577.3	576.7	576.7	576.7	576.7	576.7	576.7	576.9
177.5°	581.0	580.4	579.7	579.1	578.5	578.5	578.5	578.5	578.5	578.5	578.7
180°	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9	579.9

TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1616.5	1616.5	1616.5	1616.5
2.5°	1582.1	1586.8	1602.4	1621.2
5°	1550.8	1563.3	1585.2	1615.0
7.5°	1516.3	1535.1	1566.4	1604.0
10°	1477.1	1503.8	1542.9	1589.9
12.5°	1434.8	1469.3	1519.4	1568.0
15°	1408.2	1442.7	1488.1	1541.4
17.5°	1356.5	1397.2	1444.2	1519.4
20°	1303.3	1348.7	1409.8	1485.0
22.5°	1262.5	1311.1	1369.1	1448.9
25°	1214.0	1264.1	1326.8	1409.8
27.5°	1162.3	1212.4	1282.9	1370.6
30°	1123.1	1171.7	1239.0	1333.0
32.5°	1076.1	1123.1	1193.6	1292.3
35°	1022.9	1076.1	1143.5	1243.7
37.5°	982.1	1030.7	1101.2	1196.7
40°	938.3	980.6	1049.5	1143.5
42.5°	891.3	938.3	997.8	1091.8
45°	847.4	881.9	943.0	1032.3
47.5°	800.4	839.6	886.6	955.5
50°	750.3	783.2	834.9	881.9
52.5°	701.8	728.4	772.2	808.3
55°	650.1	676.7	709.6	731.5
57.5°	601.5	620.3	642.2	656.3
60°	542.0	560.8	574.9	589.0
62.5°	488.7	502.8	510.7	518.5
65°	433.9	441.7	446.4	452.7
67.5°	374.4	382.2	383.8	393.2
70°	319.6	321.1	324.2	328.9
72.5°	267.9	271.0	269.4	272.6
75°	214.6	217.7	214.6	217.7
77.5°	162.9	166.0	166.0	170.7
80°	117.5	119.0	120.6	120.6
82.5°	76.8	81.5	78.3	79.9
85°	43.9	45.4	45.4	47.0
87.5°	20.4	21.9	20.4	23.5
90°	3.5	2.5	1.5	0.5
92.5°	15.5	14.9	14.3	13.7
95°	29.0	28.3	27.6	26.9
97.5°	45.7	45.2	44.7	44.2
100°	63.8	63.2	62.6	62.0
102.5°	83.4	83.1	82.8	82.5
105°	103.1	102.9	102.7	102.5
107.5°	126.5	126.4	126.3	126.2
110°	148.7	148.4	148.2	148.0



TEST NUMBER: P1031511

CATALOG NUMBER: S123DIW-B1165D460UB40-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	171.1	171.0	170.9	170.8
115°	194.5	194.2	193.9	193.6
117.5°	217.1	217.0	216.9	216.8
120°	240.1	239.4	238.8	238.2
122.5°	261.8	261.4	261.0	260.6
125°	284.2	283.9	283.6	283.3
127.5°	306.1	305.5	304.9	304.3
130°	327.7	326.8	326.0	325.2
132.5°	348.6	347.8	347.0	346.2
135°	369.4	368.8	368.2	367.6
137.5°	388.7	388.2	387.7	387.2
140°	409.2	408.7	408.2	407.7
142.5°	427.9	427.4	426.9	426.4
145°	446.6	446.4	446.2	446.0
147.5°	464.0	463.6	463.2	462.8
150°	481.2	481.0	480.8	480.6
152.5°	496.1	495.8	495.5	495.2
155°	510.7	510.7	510.7	510.7
157.5°	523.6	523.7	523.8	523.9
160°	535.5	535.8	536.0	536.2
162.5°	546.2	546.5	546.8	547.1
165°	555.3	555.6	555.9	556.2
167.5°	562.7	563.1	563.5	563.9
170°	569.1	569.5	569.9	570.3
172.5°	574.1	574.5	574.9	575.3
175°	577.3	577.7	578.1	578.5
177.5°	579.1	579.5	579.9	580.3
180°	579.9	579.9	579.9	579.9

(END OF REPORT)