

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: P1031493

Luminaire Tested: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031493
REPORT IS A COMBINATION OF REPORTS P991048 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D460UB27-4F0-XX-W2A-A1
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

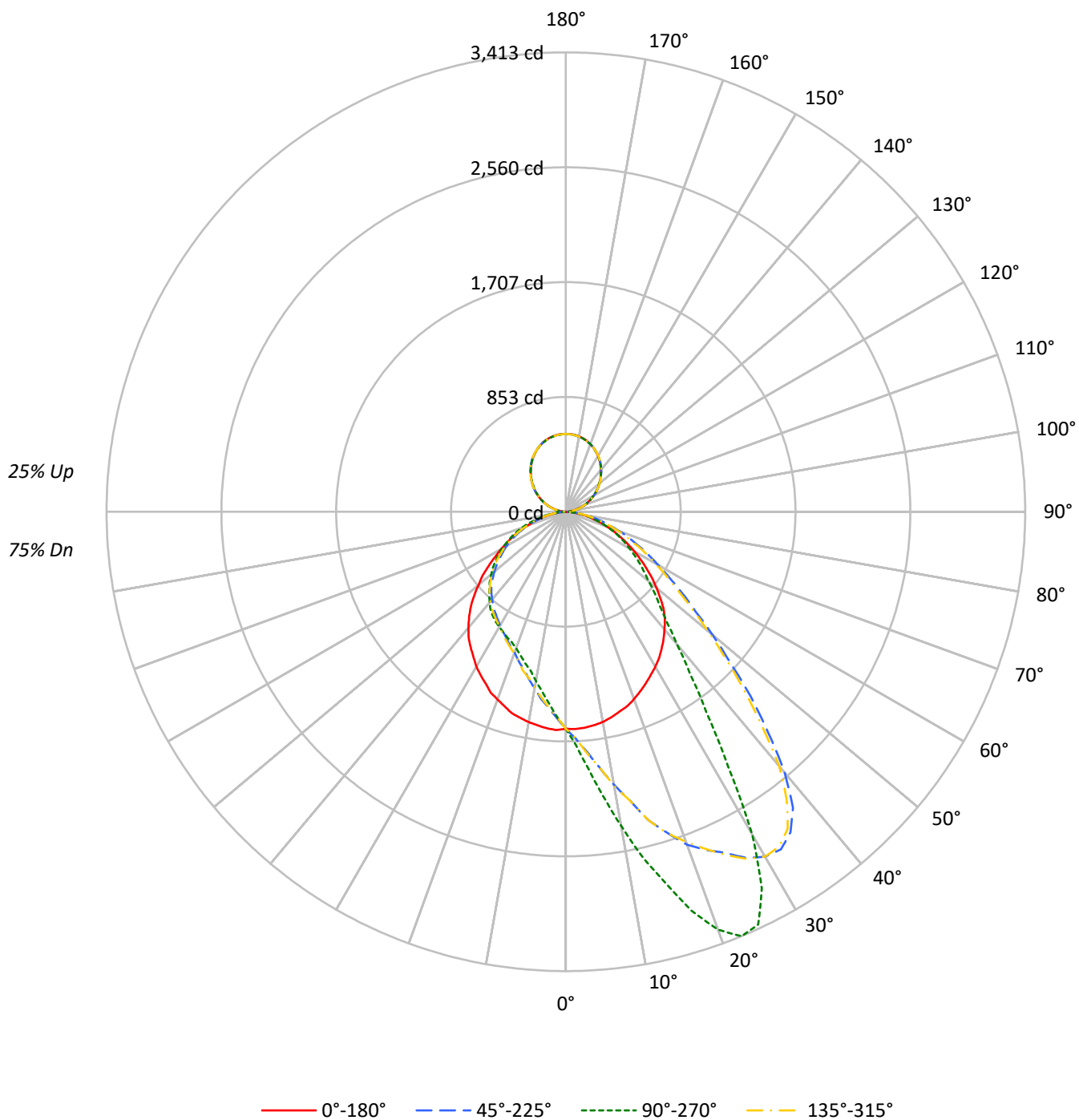
Lumens per Lamp: N/A
Luminaire Lumens: 6468.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
Input Voltage (V):
Input Current (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



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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°	17350	17350	17350	17350
5°	17361	19991	17412	14920
10°	17252	24191	17269	13029
15°	17013	28690	17151	11728
20°	16808	33032	16843	10792
25°	16503	33864	16540	10303
30°	16286	27978	16286	9983
35°	16016	18711	15916	9701
40°	15692	13507	15498	9267
45°	15286	10699	14845	8729
50°	14300	9087	13791	8201
55°	13216	7984	12678	7612
60°	12119	6952	11473	6992
65°	10912	5953	10383	6167
70°	9659	4942	9014	5198
75°	8258	3727	7726	4012
80°	6531	2488	6021	2636
85°	4505	1141	3602	1040

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 27982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	2.5
10°-20°	509.2	7.9
20°-30°	856.7	13.2
30°-40°	968.2	15.0
40°-50°	867.2	13.4
50°-60°	700.0	10.8
60°-70°	487.8	7.5
70°-80°	256.0	4.0
80°-90°	62.6	1.0
90°-100°	37.2	0.6
100°-110°	112.6	1.7
110°-120°	191.7	3.0
120°-130°	252.3	3.9
130°-140°	283.5	4.4
140°-150°	278.8	4.3
150°-160°	234.7	3.6
160°-170°	156.2	2.4
170°-180°	54.7	0.8
0°-30°	1524.4	23.6
0°-40°	2492.6	38.5
0°-60°	4059.8	62.8
0°-90°	4866.2	75.2
90°-120°	341.6	5.3
90°-150°	1156.2	17.9
90°-180°	1602.0	24.8
0°-180°	6468.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1612	1612	1612	1612	1612	
5°	1610	1915	1615	1429	1610	153
15°	1537	2850	1549	1165	1537	434
25°	1406	3383	1409	1029	1406	648
35°	1240	1823	1232	945	1240	776
45°	1029	984	1000	803	1029	787
55°	729	668	700	637	729	653
65°	451	434	430	450	451	450
75°	217	223	203	240	217	233
85°	47	52	38	47	47	54
90°	0	14	0	14	0	5
95°	27	35	27	35	27	30
105°	102	108	102	108	102	109
115°	193	194	193	194	193	191
125°	282	279	282	279	282	252
135°	366	366	366	366	366	282
145°	445	445	445	445	445	278
155°	509	508	509	508	509	234
165°	554	553	554	553	554	156
175°	577	574	577	574	577	55
180°	578	578	578	578	578	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1616.6	1629.1	1635.3	1644.7	1654.1	1668.1	1672.8	1680.6	1677.5	1683.8	1686.9
5°	1610.3	1632.2	1651.0	1674.4	1696.3	1711.9	1727.5	1752.5	1771.2	1774.3	1788.4
7.5°	1599.4	1630.7	1663.5	1696.3	1738.4	1763.4	1791.5	1825.9	1854.0	1899.3	1916.5
10°	1585.4	1629.1	1675.9	1721.2	1779.0	1818.1	1852.4	1910.2	1968.0	2014.9	2058.6
12.5°	1563.5	1618.2	1679.1	1746.2	1821.2	1866.5	1913.4	1989.9	2077.4	2149.2	2196.1
15°	1536.9	1605.7	1683.8	1755.6	1838.4	1922.7	1972.7	2058.6	2183.6	2250.7	2371.0
17.5°	1515.1	1585.4	1663.5	1775.9	1888.4	1972.7	2008.6	2166.4	2252.3	2364.8	2500.6
20°	1480.7	1569.7	1669.7	1782.2	1927.4	1979.0	2052.4	2211.7	2317.9	2464.7	2631.8
22.5°	1444.8	1540.1	1660.3	1777.5	1939.9	1994.6	2094.5	2221.1	2389.7	2535.0	2719.3
25°	1405.7	1508.8	1630.7	1769.7	1929.0	2008.6	2102.4	2258.5	2441.3	2624.0	2794.3
27.5°	1366.7	1479.1	1605.7	1744.7	1899.3	1993.0	2086.7	2249.2	2483.5	2681.8	2898.9
30°	1329.2	1441.7	1568.2	1710.3	1872.8	1963.3	2052.4	2255.4	2516.3	2739.6	2958.3
32.5°	1288.6	1404.2	1536.9	1655.6	1819.6	1916.5	2016.4	2255.4	2536.6	2774.0	2973.9
35°	1240.2	1358.9	1472.9	1591.6	1754.0	1861.8	1974.3	2239.8	2555.3	2784.9	2908.3
37.5°	1193.3	1298.0	1396.4	1511.9	1682.2	1797.8	1927.4	2221.1	2545.9	2738.1	2772.4
40°	1140.2	1244.9	1324.5	1432.3	1611.9	1746.2	1877.4	2196.1	2505.3	2627.2	2527.2
42.5°	1088.7	1171.4	1240.2	1344.8	1540.1	1671.3	1813.4	2150.8	2425.7	2450.7	2225.7
45°	1029.3	1088.7	1149.6	1268.3	1462.0	1596.3	1754.0	2085.2	2297.6	2225.7	1941.5
47.5°	952.8	1005.9	1073.0	1182.4	1379.2	1518.2	1668.1	2000.8	2111.7	1961.8	1651.0
50°	879.4	924.7	987.1	1093.3	1291.7	1427.6	1586.9	1868.1	1922.7	1686.9	1422.9
52.5°	806.0	840.3	901.2	1007.4	1205.8	1337.0	1482.3	1732.2	1700.9	1447.9	1213.6
55°	729.4	759.1	816.9	921.5	1105.8	1230.8	1369.8	1565.1	1483.8	1243.3	1055.9
57.5°	654.4	685.7	745.0	832.5	1005.9	1127.7	1238.6	1391.7	1269.8	1077.7	912.2
60°	587.3	613.8	659.1	745.0	902.8	1001.2	1102.7	1207.4	1105.8	920.0	793.5
62.5°	517.0	542.0	584.2	662.3	798.1	885.6	966.8	1052.7	940.3	804.4	691.9
65°	451.4	471.7	510.8	582.6	693.5	765.3	830.9	890.3	799.7	674.8	590.4
67.5°	392.0	409.2	442.0	506.1	599.8	651.3	704.4	754.4	677.9	577.9	506.1
70°	328.0	342.1	371.7	418.6	493.6	546.7	585.7	623.2	554.5	474.8	426.4
72.5°	271.8	285.8	304.6	353.0	404.5	437.3	479.5	499.8	460.8	395.2	346.7
75°	217.1	228.0	245.2	276.5	324.9	346.7	373.3	388.9	353.0	309.3	279.6
77.5°	170.3	174.9	187.4	209.3	242.1	267.1	287.4	296.8	271.8	243.7	218.7
80°	120.3	126.5	135.9	154.6	179.6	187.4	199.9	210.9	195.2	170.3	154.6
82.5°	79.7	87.5	92.2	100.0	115.6	125.0	128.1	137.4	123.4	114.0	107.8
85°	46.9	50.0	51.5	56.2	64.0	68.7	73.4	75.0	71.8	70.3	64.0
87.5°	23.4	23.4	23.4	26.6	28.1	31.2	32.8	32.8	32.8	31.2	29.7
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°	13.6	14.2	14.8	15.4	16.0	16.3	16.6	17.2	17.9	18.5	19.1
95°	26.8	27.5	28.2	28.9	29.6	30.0	30.4	31.2	32.0	32.8	33.6
97.5°	44.0	44.5	45.0	45.5	46.0	46.3	46.6	47.2	47.8	48.4	49.0
100°	61.8	62.4	63.0	63.6	64.2	64.5	64.8	65.3	65.8	66.3	66.8
102.5°	82.2	82.5	82.8	83.1	83.4	83.6	83.9	84.6	85.3	86.0	86.7
105°	102.2	102.4	102.6	102.8	103.0	103.1	103.6	104.5	105.4	106.3	107.2
107.5°	125.8	125.9	126.0	126.1	126.2	126.2	126.4	126.8	127.3	127.7	128.1
110°	147.6	147.8	148.0	148.2	148.4	148.5	148.6	148.8	149.0	149.2	149.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	170.3	170.4	170.5	170.6	170.7	170.7	170.7	170.7	170.7	170.7	170.7
115°	193.0	193.3	193.6	193.9	194.2	194.4	194.3	194.1	193.9	193.7	193.5
117.5°	216.2	216.3	216.4	216.5	216.6	216.6	216.5	216.3	216.1	215.9	215.7
120°	237.5	238.1	238.7	239.3	239.9	240.2	240.0	239.5	239.0	238.5	238.0
122.5°	259.8	260.2	260.6	261.0	261.4	261.6	261.5	261.3	261.1	260.9	260.7
125°	282.5	282.8	283.1	283.4	283.7	283.8	283.7	283.5	283.3	283.1	282.9
127.5°	303.3	303.9	304.5	305.2	305.8	306.1	306.0	305.8	305.6	305.4	305.2
130°	324.2	325.0	325.8	326.7	327.5	327.9	327.7	327.4	327.1	326.8	326.5
132.5°	345.1	345.9	346.7	347.6	348.4	348.8	348.7	348.5	348.3	348.1	347.9
135°	366.5	367.1	367.7	368.3	368.9	369.2	369.1	369.0	368.9	368.8	368.7
137.5°	386.0	386.5	387.0	387.5	388.0	388.3	388.4	388.7	389.0	389.3	389.6
140°	406.4	406.9	407.4	407.9	408.4	408.7	408.8	408.9	409.0	409.1	409.2
142.5°	425.1	425.6	426.1	426.6	427.1	427.3	427.4	427.6	427.8	428.0	428.2
145°	444.6	444.8	445.0	445.2	445.4	445.5	445.6	445.9	446.2	446.5	446.8
147.5°	461.4	461.8	462.2	462.6	463.0	463.2	463.4	463.7	464.0	464.3	464.6
150°	479.1	479.3	479.5	479.7	479.9	480.0	480.1	480.3	480.5	480.7	480.9
152.5°	493.6	493.9	494.2	494.5	494.8	495.0	495.0	495.1	495.2	495.3	495.4
155°	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.2	509.3	509.4	509.5
157.5°	522.2	522.1	522.0	521.9	521.8	521.8	521.8	521.9	522.0	522.1	522.2
160°	534.5	534.3	534.1	533.9	533.7	533.6	533.6	533.6	533.6	533.6	533.6
162.5°	545.4	545.1	544.8	544.5	544.2	544.0	544.1	544.2	544.3	544.4	544.5
165°	554.5	554.2	553.9	553.6	553.3	553.1	553.1	553.1	553.1	553.1	553.1
167.5°	562.2	561.8	561.4	561.0	560.6	560.4	560.4	560.5	560.6	560.7	560.8
170°	568.6	568.2	567.8	567.3	566.9	566.7	566.7	566.7	566.7	566.7	566.7
172.5°	573.5	573.1	572.7	572.3	571.9	571.7	571.7	571.7	571.7	571.7	571.7
175°	576.7	576.3	575.9	575.5	575.1	574.9	574.9	574.9	574.9	574.9	574.9
177.5°	578.5	578.1	577.7	577.3	576.9	576.7	576.7	576.7	576.7	576.7	576.7
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1697.8	1700.9	1711.9	1719.7	1735.3	1733.7	1733.7	1732.2	1727.5	1735.3	1740.0
5°	1816.5	1843.1	1846.2	1880.6	1882.1	1896.2	1905.6	1897.7	1916.5	1914.9	1900.9
7.5°	1963.3	1999.3	2016.4	2049.2	2086.7	2077.4	2113.3	2119.5	2116.4	2132.0	2143.0
10°	2124.2	2186.7	2230.4	2291.3	2307.0	2316.3	2339.8	2360.1	2400.7	2369.4	2389.7
12.5°	2308.5	2353.8	2411.6	2508.5	2556.9	2588.1	2599.0	2613.1	2641.2	2624.0	2625.6
15°	2463.2	2524.1	2622.5	2742.7	2756.8	2795.8	2786.5	2870.8	2911.4	2850.5	2884.9
17.5°	2624.0	2705.3	2822.4	2927.1	2986.4	3013.0	3037.9	3119.2	3116.0	3106.7	3114.5
20°	2727.1	2859.9	3005.1	3144.2	3161.3	3181.6	3248.8	3283.2	3276.9	3303.5	3320.7
22.5°	2872.4	3013.0	3167.6	3259.7	3298.8	3322.2	3375.3	3397.2	3406.6	3412.8	3401.9
25°	2994.2	3144.2	3258.2	3339.4	3362.8	3375.3	3392.5	3398.8	3394.1	3383.1	3392.5
27.5°	3077.0	3197.3	3275.4	3312.8	3300.4	3280.0	3247.2	3225.4	3177.0	3153.5	3181.6
30°	3111.4	3164.5	3187.9	3125.4	3062.9	3013.0	2950.5	2834.9	2744.3	2770.9	2734.9
32.5°	3056.7	3022.3	2909.9	2749.0	2700.6	2619.4	2442.9	2307.0	2311.7	2239.8	2269.5
35°	2895.8	2739.6	2527.2	2283.5	2219.5	2175.8	1982.1	1952.4	1889.9	1822.8	1841.5
37.5°	2611.5	2383.5	2125.8	1946.2	1850.9	1755.6	1646.3	1580.7	1543.2	1515.1	1536.9
40°	2264.8	1986.8	1774.3	1613.5	1532.3	1471.3	1396.4	1330.8	1288.6	1283.9	1291.7
42.5°	1924.3	1690.0	1494.8	1341.7	1315.1	1243.3	1194.9	1143.3	1130.8	1110.5	1121.5
45°	1629.1	1438.5	1277.7	1152.7	1121.5	1102.7	1043.4	1010.6	996.5	984.0	1002.8
47.5°	1415.1	1215.2	1098.0	1023.1	991.8	960.6	927.8	905.9	895.0	896.5	895.0
50°	1208.9	1062.1	959.0	901.2	882.5	860.6	834.1	820.0	815.3	801.3	812.2
52.5°	1040.2	934.0	862.2	807.5	793.5	777.8	756.0	748.2	737.2	734.1	734.1
55°	904.4	821.6	763.8	727.9	710.7	698.2	685.7	676.3	668.5	668.5	668.5
57.5°	798.1	726.3	684.1	652.9	646.6	634.1	620.1	620.1	609.2	607.6	612.3
60°	707.6	643.5	610.7	584.2	574.8	571.7	557.6	557.6	554.5	546.7	552.9
62.5°	615.4	568.5	540.4	520.1	510.8	510.8	499.8	492.0	492.0	493.6	490.4
65°	531.1	496.7	471.7	456.1	451.4	445.1	443.6	437.3	432.7	434.2	432.7
67.5°	456.1	429.5	412.3	399.9	392.0	388.9	384.2	384.2	381.1	382.7	374.9
70°	388.9	362.4	348.3	335.8	332.7	332.7	326.4	328.0	324.9	329.6	326.4
72.5°	320.2	299.9	289.0	284.3	281.1	279.6	276.5	273.3	271.8	274.9	273.3
75°	259.3	242.1	234.3	231.2	228.0	228.0	226.5	224.9	223.4	223.4	223.4
77.5°	201.5	190.6	181.2	184.3	179.6	181.2	176.5	176.5	178.1	176.5	176.5
80°	148.4	140.6	140.6	137.4	131.2	134.3	134.3	129.6	128.1	131.2	126.5
82.5°	98.4	96.8	93.7	92.2	89.0	90.6	89.0	87.5	85.9	89.0	85.9
85°	57.8	57.8	56.2	53.1	56.2	54.7	53.1	53.1	51.5	51.5	51.5
87.5°	29.7	26.6	26.6	25.0	26.6	23.4	25.0	23.4	21.9	23.4	21.9
90°	11.3	11.7	12.1	12.5	12.7	12.8	13.0	13.2	13.4	13.6	13.4
92.5°	19.4	19.7	20.0	20.3	20.4	20.3	20.1	19.9	19.7	19.5	19.7
95°	34.0	34.4	34.8	35.2	35.4	35.4	35.4	35.4	35.4	35.4	35.4
97.5°	49.5	50.0	50.5	51.0	51.3	51.3	51.2	51.1	51.0	50.9	51.0
100°	67.1	67.4	67.7	68.0	68.1	68.2	68.4	68.6	68.8	69.0	68.8
102.5°	87.0	87.3	87.6	87.9	88.1	88.0	87.9	87.8	87.7	87.6	87.7
105°	107.2	107.2	107.2	107.2	107.2	107.3	107.5	107.7	107.9	108.1	107.9
107.5°	128.4	128.7	129.0	129.3	129.4	129.4	129.3	129.2	129.1	129.0	129.1
110°	149.8	150.2	150.6	151.0	151.2	151.1	150.9	150.7	150.5	150.3	150.5

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	171.2	171.7	172.2	172.7	173.0	173.0	173.0	173.0	173.0	173.0	173.0
115°	193.6	193.7	193.8	193.9	193.9	193.9	193.8	193.7	193.6	193.5	193.6
117.5°	215.7	215.7	215.7	215.7	215.7	215.5	215.2	214.9	214.6	214.3	214.6
120°	237.9	237.8	237.7	237.6	237.5	237.4	237.2	237.0	236.8	236.6	236.8
122.5°	260.4	260.1	259.8	259.5	259.3	259.1	258.8	258.5	258.2	257.9	258.2
125°	282.5	282.1	281.7	281.3	281.1	280.9	280.5	280.1	279.7	279.3	279.7
127.5°	304.6	304.0	303.3	302.7	302.4	302.2	301.8	301.4	301.0	300.6	301.0
130°	326.1	325.7	325.3	324.9	324.7	324.3	323.6	322.9	322.2	321.5	322.2
132.5°	347.4	346.9	346.4	345.9	345.6	345.3	344.8	344.3	343.8	343.3	343.8
135°	368.3	367.9	367.5	367.1	366.9	366.8	366.6	366.4	366.2	366.0	366.2
137.5°	389.1	388.6	388.1	387.6	387.4	387.2	386.9	386.6	386.3	386.0	386.3
140°	409.1	409.0	408.9	408.8	408.7	408.3	407.6	406.9	406.2	405.5	406.2
142.5°	428.1	428.0	427.9	427.8	427.8	427.5	427.0	426.5	426.0	425.5	426.0
145°	446.7	446.6	446.5	446.4	446.4	446.2	445.8	445.4	445.0	444.6	445.0
147.5°	464.6	464.6	464.6	464.6	464.6	464.3	463.7	463.0	462.4	461.8	462.4
150°	480.9	480.9	480.9	480.9	480.9	480.6	480.0	479.4	478.8	478.2	478.8
152.5°	495.6	495.8	496.0	496.2	496.3	496.1	495.6	495.1	494.6	494.1	494.6
155°	509.9	510.3	510.7	511.1	511.3	511.0	510.3	509.6	508.9	508.2	508.9
157.5°	522.6	523.0	523.4	523.8	524.0	523.7	523.1	522.5	521.9	521.3	521.9
160°	534.1	534.6	535.1	535.6	535.9	535.7	535.3	534.8	534.4	534.0	534.4
162.5°	545.0	545.5	546.0	546.5	546.8	546.4	545.7	545.0	544.3	543.6	544.3
165°	553.7	554.3	554.9	555.5	555.8	555.5	554.8	554.1	553.4	552.7	553.4
167.5°	561.4	562.0	562.7	563.3	563.6	563.3	562.7	562.0	561.4	560.8	561.4
170°	567.4	568.1	568.8	569.5	569.9	569.5	568.8	568.1	567.4	566.7	567.4
172.5°	572.3	572.9	573.6	574.2	574.5	574.1	573.4	572.7	572.0	571.3	572.0
175°	575.5	576.1	576.7	577.3	577.6	577.3	576.6	575.9	575.2	574.5	575.2
177.5°	577.3	577.9	578.6	579.2	579.5	579.1	578.4	577.7	577.0	576.3	577.0
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1727.5	1732.2	1719.7	1716.6	1716.6	1722.8	1718.1	1675.9	1683.8	1674.4	1671.3
5°	1918.0	1908.7	1896.2	1889.9	1882.1	1860.3	1858.7	1810.3	1800.9	1769.7	1755.6
7.5°	2127.3	2119.5	2082.0	2077.4	2074.2	2053.9	2002.4	1950.8	1913.4	1877.4	1843.1
10°	2366.3	2342.9	2325.7	2291.3	2274.2	2246.1	2178.9	2130.5	2066.4	2011.8	1939.9
12.5°	2653.7	2627.2	2569.4	2544.4	2522.5	2444.4	2377.3	2322.6	2197.6	2160.1	2071.1
15°	2864.6	2808.3	2802.1	2747.4	2744.3	2658.4	2530.3	2471.0	2374.1	2236.7	2144.5
17.5°	3092.6	3042.6	3003.6	2938.0	2928.6	2847.4	2753.7	2608.4	2502.2	2371.0	2253.9
20°	3259.7	3233.2	3166.0	3139.5	3084.8	3016.1	2919.2	2739.6	2610.0	2478.8	2335.1
22.5°	3392.5	3366.0	3312.8	3276.9	3245.7	3156.7	3041.1	2888.0	2709.9	2538.1	2389.7
25°	3390.9	3383.1	3361.3	3344.1	3320.7	3255.1	3158.2	3011.4	2813.0	2624.0	2417.9
27.5°	3198.8	3220.7	3258.2	3276.9	3272.2	3262.9	3208.2	3084.8	2906.7	2681.8	2450.7
30°	2799.0	2878.6	2948.9	3042.6	3070.7	3139.5	3170.7	3100.4	2958.3	2749.0	2492.8
32.5°	2321.0	2436.6	2589.7	2641.2	2730.2	2863.0	3011.4	3037.9	2948.9	2788.0	2519.4
35°	1904.0	1999.3	2118.0	2199.2	2278.9	2494.4	2681.8	2844.3	2873.9	2767.7	2513.1
37.5°	1576.0	1643.1	1747.8	1816.5	1889.9	2074.2	2336.6	2547.5	2695.9	2699.0	2496.0
40°	1338.6	1368.2	1458.8	1508.8	1579.1	1738.4	1972.7	2247.6	2464.7	2564.7	2450.7
42.5°	1134.0	1173.0	1248.0	1285.5	1330.8	1469.8	1624.4	1885.2	2153.9	2367.9	2366.3
45°	1012.1	1040.2	1074.6	1105.8	1157.4	1240.2	1416.7	1611.9	1869.6	2111.7	2207.0
47.5°	904.4	930.9	965.3	974.6	1009.0	1087.1	1194.9	1365.1	1605.7	1846.2	2025.8
50°	813.8	835.6	859.1	876.2	891.9	955.9	1037.1	1180.8	1372.9	1605.7	1829.0
52.5°	743.5	759.1	779.4	788.8	802.8	849.7	912.2	1018.4	1176.1	1388.6	1605.7
55°	677.9	688.8	701.3	716.9	723.2	757.5	806.0	896.5	1013.7	1204.2	1410.4
57.5°	617.0	621.6	629.5	638.8	646.6	676.3	718.5	779.4	882.5	1029.3	1224.6
60°	548.2	560.7	565.4	574.8	579.5	602.9	635.7	687.2	766.9	893.4	1040.2
62.5°	490.4	498.3	506.1	510.8	521.7	529.5	556.0	602.9	668.5	762.2	895.0
65°	438.9	442.0	446.7	451.4	454.5	463.9	488.9	520.1	570.1	652.9	756.0
67.5°	379.5	382.7	388.9	390.5	393.6	406.1	420.2	446.7	488.9	551.4	635.7
70°	321.8	326.4	329.6	332.7	337.4	342.1	357.7	379.5	412.3	456.1	521.7
72.5°	271.8	276.5	276.5	279.6	278.0	284.3	299.9	315.5	337.4	373.3	431.1
75°	221.8	221.8	224.9	226.5	228.0	234.3	240.5	253.0	270.2	298.3	334.3
77.5°	174.9	173.4	176.5	176.5	176.5	181.2	187.4	193.7	204.6	224.9	253.0
80°	128.1	128.1	131.2	132.8	129.6	131.2	134.3	140.6	148.4	162.4	178.1
82.5°	84.3	90.6	89.0	90.6	89.0	92.2	93.7	95.3	98.4	104.6	115.6
85°	51.5	51.5	51.5	53.1	51.5	53.1	53.1	53.1	54.7	57.8	62.5
87.5°	21.9	21.9	21.9	23.4	21.9	21.9	23.4	21.9	23.4	23.4	25.0
90°	13.2	13.0	12.8	12.7	12.5	12.1	11.7	11.3	10.9	9.6	8.3
92.5°	19.9	20.1	20.3	20.4	20.3	20.0	19.7	19.4	19.1	18.5	17.9
95°	35.4	35.4	35.4	35.4	35.2	34.8	34.4	34.0	33.6	32.8	32.0
97.5°	51.1	51.2	51.3	51.3	51.0	50.5	50.0	49.5	49.0	48.4	47.8
100°	68.6	68.4	68.2	68.1	68.0	67.7	67.4	67.1	66.8	66.3	65.8
102.5°	87.8	87.9	88.0	88.1	87.9	87.6	87.3	87.0	86.7	86.0	85.3
105°	107.7	107.5	107.3	107.2	107.2	107.2	107.2	107.2	107.2	106.3	105.4
107.5°	129.2	129.3	129.4	129.4	129.3	129.0	128.7	128.4	128.1	127.7	127.3
110°	150.7	150.9	151.1	151.2	151.0	150.6	150.2	149.8	149.4	149.2	149.0

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	173.0	173.0	173.0	173.0	172.7	172.2	171.7	171.2	170.7	170.7	170.7
115°	193.7	193.8	193.9	193.9	193.9	193.8	193.7	193.6	193.5	193.7	193.9
117.5°	214.9	215.2	215.5	215.7	215.7	215.7	215.7	215.7	215.7	215.9	216.1
120°	237.0	237.2	237.4	237.5	237.6	237.7	237.8	237.9	238.0	238.5	239.0
122.5°	258.5	258.8	259.1	259.3	259.5	259.8	260.1	260.4	260.7	260.9	261.1
125°	280.1	280.5	280.9	281.1	281.3	281.7	282.1	282.5	282.9	283.1	283.3
127.5°	301.4	301.8	302.2	302.4	302.7	303.3	304.0	304.6	305.2	305.4	305.6
130°	322.9	323.6	324.3	324.7	324.9	325.3	325.7	326.1	326.5	326.8	327.1
132.5°	344.3	344.8	345.3	345.6	345.9	346.4	346.9	347.4	347.9	348.1	348.3
135°	366.4	366.6	366.8	366.9	367.1	367.5	367.9	368.3	368.7	368.8	368.9
137.5°	386.6	386.9	387.2	387.4	387.6	388.1	388.6	389.1	389.6	389.3	389.0
140°	406.9	407.6	408.3	408.7	408.8	408.9	409.0	409.1	409.2	409.1	409.0
142.5°	426.5	427.0	427.5	427.8	427.8	427.9	428.0	428.1	428.2	428.0	427.8
145°	445.4	445.8	446.2	446.4	446.4	446.5	446.6	446.7	446.8	446.5	446.2
147.5°	463.0	463.7	464.3	464.6	464.6	464.6	464.6	464.6	464.6	464.3	464.0
150°	479.4	480.0	480.6	480.9	480.9	480.9	480.9	480.9	480.9	480.7	480.5
152.5°	495.1	495.6	496.1	496.3	496.2	496.0	495.8	495.6	495.4	495.3	495.2
155°	509.6	510.3	511.0	511.3	511.1	510.7	510.3	509.9	509.5	509.4	509.3
157.5°	522.5	523.1	523.7	524.0	523.8	523.4	523.0	522.6	522.2	522.1	522.0
160°	534.8	535.3	535.7	535.9	535.6	535.1	534.6	534.1	533.6	533.6	533.6
162.5°	545.0	545.7	546.4	546.8	546.5	546.0	545.5	545.0	544.5	544.4	544.3
165°	554.1	554.8	555.5	555.8	555.5	554.9	554.3	553.7	553.1	553.1	553.1
167.5°	562.0	562.7	563.3	563.6	563.3	562.7	562.0	561.4	560.8	560.7	560.6
170°	568.1	568.8	569.5	569.9	569.5	568.8	568.1	567.4	566.7	566.7	566.7
172.5°	572.7	573.4	574.1	574.5	574.2	573.6	572.9	572.3	571.7	571.7	571.7
175°	575.9	576.6	577.3	577.6	577.3	576.7	576.1	575.5	574.9	574.9	574.9
177.5°	577.7	578.4	579.1	579.5	579.2	578.6	577.9	577.3	576.7	576.7	576.7
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1655.6	1651.0	1651.0	1647.8	1638.5	1621.3	1619.7	1622.8	1613.5	1604.1	1590.0
5°	1736.9	1707.2	1697.8	1688.4	1669.7	1638.5	1626.0	1615.0	1597.9	1577.5	1555.7
7.5°	1805.6	1763.4	1750.9	1733.7	1696.3	1652.5	1624.4	1601.0	1577.5	1549.4	1522.9
10°	1891.5	1830.6	1800.9	1775.9	1724.4	1663.5	1621.3	1586.9	1549.4	1515.1	1480.7
12.5°	1988.3	1889.9	1880.6	1819.6	1760.3	1669.7	1618.2	1568.2	1518.2	1476.0	1440.1
15°	2069.6	1961.8	1922.7	1882.1	1768.1	1655.6	1605.7	1549.4	1491.6	1446.3	1393.2
17.5°	2121.1	2032.1	1949.3	1894.6	1775.9	1675.9	1579.1	1515.1	1454.2	1391.7	1347.9
20°	2183.6	2053.9	1982.1	1908.7	1791.5	1660.3	1563.5	1483.8	1408.9	1352.6	1299.5
22.5°	2246.1	2071.1	2011.8	1932.1	1794.7	1644.7	1535.4	1455.7	1369.8	1313.6	1255.8
25°	2239.8	2096.1	1997.7	1930.5	1763.4	1630.7	1502.6	1408.9	1329.2	1257.4	1199.6
27.5°	2244.5	2068.0	1968.0	1889.9	1741.5	1610.3	1468.2	1369.8	1287.0	1212.1	1151.1
30°	2246.1	2025.8	1938.4	1844.6	1700.9	1561.9	1429.2	1329.2	1241.7	1160.5	1105.8
32.5°	2241.4	1991.5	1882.1	1797.8	1636.9	1515.1	1383.9	1277.7	1188.6	1113.7	1062.1
35°	2230.4	1950.8	1824.3	1718.1	1571.3	1447.9	1341.7	1232.4	1137.1	1068.4	1009.0
37.5°	2200.8	1907.1	1763.4	1658.8	1494.8	1369.8	1276.1	1185.5	1093.3	1012.1	962.1
40°	2178.9	1847.8	1702.5	1588.5	1412.0	1290.2	1212.1	1126.1	1035.6	962.1	913.7
42.5°	2128.9	1791.5	1640.0	1504.1	1330.8	1205.8	1132.4	1063.7	985.6	913.7	870.0
45°	2047.7	1730.6	1563.5	1426.0	1241.7	1123.0	1055.9	999.6	930.9	862.2	818.4
47.5°	1933.7	1643.1	1482.3	1344.8	1154.3	1034.0	966.8	924.7	870.0	812.2	774.7
50°	1810.3	1547.9	1399.5	1263.6	1069.9	952.8	887.2	848.1	812.2	759.1	723.2
52.5°	1649.4	1446.3	1304.2	1174.6	979.3	866.9	809.1	781.0	743.5	706.0	674.8
55°	1493.2	1315.1	1198.0	1074.6	890.3	785.6	729.4	699.7	677.9	646.6	621.6
57.5°	1312.0	1193.3	1085.5	973.1	807.5	712.2	659.1	623.2	609.2	595.1	571.7
60°	1144.9	1054.3	966.8	873.1	721.6	635.7	584.2	556.0	542.0	532.6	517.0
62.5°	991.8	921.5	846.6	771.6	634.1	556.0	517.0	488.9	476.4	474.8	460.8
65°	845.0	795.0	734.1	660.7	552.9	484.2	446.7	429.5	415.5	415.5	404.5
67.5°	698.2	663.8	615.4	563.9	479.5	415.5	381.1	365.5	357.7	357.7	349.9
70°	581.0	557.6	513.9	468.6	395.2	346.7	320.2	306.1	301.5	303.0	296.8
72.5°	471.7	446.7	410.8	378.0	323.3	287.4	268.7	253.0	245.2	246.8	245.2
75°	365.5	353.0	321.8	296.8	253.0	228.0	210.9	203.1	196.8	198.4	195.2
77.5°	274.9	256.2	239.0	221.8	195.2	174.9	160.9	153.1	148.4	148.4	148.4
80°	187.4	184.3	170.3	160.9	139.0	123.4	112.5	110.9	106.2	106.2	106.2
82.5°	121.8	114.0	106.2	100.0	87.5	78.1	73.4	70.3	68.7	67.2	70.3
85°	67.2	62.5	59.4	53.1	48.4	43.7	39.0	37.5	35.9	37.5	35.9
87.5°	26.6	21.9	21.9	20.3	18.7	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°	17.2	16.6	16.3	16.0	15.4	14.8	14.2	13.6	14.2	14.8	15.4
95°	31.2	30.4	30.0	29.6	28.9	28.2	27.5	26.8	27.5	28.2	28.9
97.5°	47.2	46.6	46.3	46.0	45.5	45.0	44.5	44.0	44.5	45.0	45.5
100°	65.3	64.8	64.5	64.2	63.6	63.0	62.4	61.8	62.4	63.0	63.6
102.5°	84.6	83.9	83.6	83.4	83.1	82.8	82.5	82.2	82.5	82.8	83.1
105°	104.5	103.6	103.1	103.0	102.8	102.6	102.4	102.2	102.4	102.6	102.8
107.5°	126.8	126.4	126.2	126.2	126.1	126.0	125.9	125.8	125.9	126.0	126.1
110°	148.8	148.6	148.5	148.4	148.2	148.0	147.8	147.6	147.8	148.0	148.2

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	170.7	170.7	170.7	170.7	170.6	170.5	170.4	170.3	170.4	170.5	170.6
115°	194.1	194.3	194.4	194.2	193.9	193.6	193.3	193.0	193.3	193.6	193.9
117.5°	216.3	216.5	216.6	216.6	216.5	216.4	216.3	216.2	216.3	216.4	216.5
120°	239.5	240.0	240.2	239.9	239.3	238.7	238.1	237.5	238.1	238.7	239.3
122.5°	261.3	261.5	261.6	261.4	261.0	260.6	260.2	259.8	260.2	260.6	261.0
125°	283.5	283.7	283.8	283.7	283.4	283.1	282.8	282.5	282.8	283.1	283.4
127.5°	305.8	306.0	306.1	305.8	305.2	304.5	303.9	303.3	303.9	304.5	305.2
130°	327.4	327.7	327.9	327.5	326.7	325.8	325.0	324.2	325.0	325.8	326.7
132.5°	348.5	348.7	348.8	348.4	347.6	346.7	345.9	345.1	345.9	346.7	347.6
135°	369.0	369.1	369.2	368.9	368.3	367.7	367.1	366.5	367.1	367.7	368.3
137.5°	388.7	388.4	388.3	388.0	387.5	387.0	386.5	386.0	386.5	387.0	387.5
140°	408.9	408.8	408.7	408.4	407.9	407.4	406.9	406.4	406.9	407.4	407.9
142.5°	427.6	427.4	427.3	427.1	426.6	426.1	425.6	425.1	425.6	426.1	426.6
145°	445.9	445.6	445.5	445.4	445.2	445.0	444.8	444.6	444.8	445.0	445.2
147.5°	463.7	463.4	463.2	463.0	462.6	462.2	461.8	461.4	461.8	462.2	462.6
150°	480.3	480.1	480.0	479.9	479.7	479.5	479.3	479.1	479.3	479.5	479.7
152.5°	495.1	495.0	495.0	494.8	494.5	494.2	493.9	493.6	493.9	494.2	494.5
155°	509.2	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1	509.1
157.5°	521.9	521.8	521.8	521.8	521.9	522.0	522.1	522.2	522.1	522.0	521.9
160°	533.6	533.6	533.6	533.7	533.9	534.1	534.3	534.5	534.3	534.1	533.9
162.5°	544.2	544.1	544.0	544.2	544.5	544.8	545.1	545.4	545.1	544.8	544.5
165°	553.1	553.1	553.1	553.3	553.6	553.9	554.2	554.5	554.2	553.9	553.6
167.5°	560.5	560.4	560.4	560.6	561.0	561.4	561.8	562.2	561.8	561.4	561.0
170°	566.7	566.7	566.7	566.9	567.3	567.8	568.2	568.6	568.2	567.8	567.3
172.5°	571.7	571.7	571.7	571.9	572.3	572.7	573.1	573.5	573.1	572.7	572.3
175°	574.9	574.9	574.9	575.1	575.5	575.9	576.3	576.7	576.3	575.9	575.5
177.5°	576.7	576.7	576.7	576.9	577.3	577.7	578.1	578.5	578.1	577.7	577.3
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1586.9	1585.4	1588.5	1579.1	1563.5	1555.7	1533.8	1529.1	1527.6	1529.1	1530.7
5°	1543.2	1541.6	1536.9	1521.3	1502.6	1488.5	1462.0	1460.4	1451.0	1441.7	1446.3
7.5°	1501.0	1494.8	1485.4	1465.1	1440.1	1424.5	1402.6	1387.0	1374.5	1366.7	1360.4
10°	1458.8	1449.5	1440.1	1413.5	1382.3	1358.9	1332.3	1319.8	1305.8	1299.5	1293.3
12.5°	1404.2	1394.8	1377.6	1346.4	1327.6	1298.0	1271.4	1258.9	1251.1	1238.6	1230.8
15°	1360.4	1341.7	1332.3	1299.5	1260.5	1257.4	1208.9	1205.8	1190.2	1190.2	1177.7
17.5°	1310.5	1296.4	1279.2	1246.4	1218.3	1190.2	1165.2	1155.8	1141.8	1138.6	1132.4
20°	1262.0	1243.3	1237.0	1204.2	1174.6	1140.2	1113.7	1104.3	1098.0	1091.8	1096.5
22.5°	1212.1	1196.4	1180.8	1151.1	1129.3	1094.9	1079.3	1069.9	1060.5	1057.4	1059.0
25°	1163.6	1149.6	1134.0	1104.3	1080.9	1052.7	1038.7	1034.0	1029.3	1029.3	1027.7
27.5°	1116.8	1102.7	1088.7	1062.1	1038.7	1018.4	1007.4	1002.8	998.1	1001.2	1004.3
30°	1068.4	1055.9	1043.4	1019.9	1001.2	982.5	976.2	973.1	971.5	979.3	979.3
32.5°	1024.6	1013.7	1004.3	982.5	963.7	948.1	943.4	945.0	946.5	951.2	954.3
35°	979.3	971.5	962.1	943.4	927.8	913.7	915.3	915.3	918.4	926.2	932.5
37.5°	938.7	927.8	920.0	904.4	891.9	879.4	884.1	888.7	891.9	901.2	904.4
40°	890.3	885.6	879.4	863.7	852.8	851.3	852.8	855.9	862.2	866.9	871.6
42.5°	851.3	845.0	837.2	824.7	815.3	816.9	818.4	821.6	824.7	832.5	837.2
45°	807.5	802.8	796.6	785.6	777.8	779.4	781.0	781.0	784.1	793.5	796.6
47.5°	759.1	760.7	752.8	741.9	737.2	737.2	737.2	740.4	748.2	751.3	752.8
50°	712.2	709.1	707.6	696.6	693.5	691.9	693.5	695.1	706.0	704.4	709.1
52.5°	662.3	662.3	660.7	654.4	649.8	649.8	646.6	654.4	657.6	660.7	665.4
55°	613.8	609.2	607.6	604.5	598.2	596.7	599.8	609.2	612.3	615.4	620.1
57.5°	560.7	560.7	557.6	552.9	552.9	552.9	552.9	559.2	563.9	567.0	576.4
60°	512.3	506.1	501.4	501.4	501.4	499.8	509.2	509.2	518.6	520.1	523.2
62.5°	454.5	451.4	448.3	449.8	448.3	451.4	454.5	460.8	462.3	467.0	471.7
65°	399.9	399.9	396.7	406.1	399.9	399.9	407.7	407.7	410.8	415.5	421.7
67.5°	346.7	348.3	345.2	345.2	348.3	349.9	351.4	357.7	359.2	365.5	373.3
70°	292.1	295.2	296.8	293.6	296.8	299.9	303.0	304.6	310.8	313.9	318.6
72.5°	243.7	246.8	242.1	243.7	245.2	248.3	249.9	253.0	256.2	265.5	268.7
75°	195.2	193.7	192.1	198.4	195.2	201.5	203.1	203.1	206.2	214.0	217.1
77.5°	149.9	149.9	151.5	148.4	153.1	151.5	153.1	157.8	162.4	162.4	174.9
80°	104.6	107.8	107.8	107.8	109.3	110.9	107.8	115.6	117.1	117.1	121.8
82.5°	67.2	68.7	67.2	70.3	70.3	73.4	71.8	73.4	76.5	79.7	81.2
85°	35.9	35.9	39.0	39.0	37.5	39.0	37.5	39.0	42.2	42.2	43.7
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	12.1	12.5
92.5°	16.0	16.3	16.6	17.2	17.9	18.5	19.1	19.4	19.7	20.0	20.3
95°	29.6	30.0	30.4	31.2	32.0	32.8	33.6	34.0	34.4	34.8	35.2
97.5°	46.0	46.3	46.6	47.2	47.8	48.4	49.0	49.5	50.0	50.5	51.0
100°	64.2	64.5	64.8	65.3	65.8	66.3	66.8	67.1	67.4	67.7	68.0
102.5°	83.4	83.6	83.9	84.6	85.3	86.0	86.7	87.0	87.3	87.6	87.9
105°	103.0	103.1	103.6	104.5	105.4	106.3	107.2	107.2	107.2	107.2	107.2
107.5°	126.2	126.2	126.4	126.8	127.3	127.7	128.1	128.4	128.7	129.0	129.3
110°	148.4	148.5	148.6	148.8	149.0	149.2	149.4	149.8	150.2	150.6	151.0

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	170.7	170.7	170.7	170.7	170.7	170.7	170.7	171.2	171.7	172.2	172.7
115°	194.2	194.4	194.3	194.1	193.9	193.7	193.5	193.6	193.7	193.8	193.9
117.5°	216.6	216.6	216.5	216.3	216.1	215.9	215.7	215.7	215.7	215.7	215.7
120°	239.9	240.2	240.0	239.5	239.0	238.5	238.0	237.9	237.8	237.7	237.6
122.5°	261.4	261.6	261.5	261.3	261.1	260.9	260.7	260.4	260.1	259.8	259.5
125°	283.7	283.8	283.7	283.5	283.3	283.1	282.9	282.5	282.1	281.7	281.3
127.5°	305.8	306.1	306.0	305.8	305.6	305.4	305.2	304.6	304.0	303.3	302.7
130°	327.5	327.9	327.7	327.4	327.1	326.8	326.5	326.1	325.7	325.3	324.9
132.5°	348.4	348.8	348.7	348.5	348.3	348.1	347.9	347.4	346.9	346.4	345.9
135°	368.9	369.2	369.1	369.0	368.9	368.8	368.7	368.3	367.9	367.5	367.1
137.5°	388.0	388.3	388.4	388.7	389.0	389.3	389.6	389.1	388.6	388.1	387.6
140°	408.4	408.7	408.8	408.9	409.0	409.1	409.2	409.1	409.0	408.9	408.8
142.5°	427.1	427.3	427.4	427.6	427.8	428.0	428.2	428.1	428.0	427.9	427.8
145°	445.4	445.5	445.6	445.9	446.2	446.5	446.8	446.7	446.6	446.5	446.4
147.5°	463.0	463.2	463.4	463.7	464.0	464.3	464.6	464.6	464.6	464.6	464.6
150°	479.9	480.0	480.1	480.3	480.5	480.7	480.9	480.9	480.9	480.9	480.9
152.5°	494.8	495.0	495.0	495.1	495.2	495.3	495.4	495.6	495.8	496.0	496.2
155°	509.1	509.1	509.1	509.2	509.3	509.4	509.5	509.9	510.3	510.7	511.1
157.5°	521.8	521.8	521.8	521.9	522.0	522.1	522.2	522.6	523.0	523.4	523.8
160°	533.7	533.6	533.6	533.6	533.6	533.6	533.6	534.1	534.6	535.1	535.6
162.5°	544.2	544.0	544.1	544.2	544.3	544.4	544.5	545.0	545.5	546.0	546.5
165°	553.3	553.1	553.1	553.1	553.1	553.1	553.1	553.7	554.3	554.9	555.5
167.5°	560.6	560.4	560.4	560.5	560.6	560.7	560.8	561.4	562.0	562.7	563.3
170°	566.9	566.7	566.7	566.7	566.7	566.7	566.7	567.4	568.1	568.8	569.5
172.5°	571.9	571.7	571.7	571.7	571.7	571.7	571.7	572.3	572.9	573.6	574.2
175°	575.1	574.9	574.9	574.9	574.9	574.9	574.9	575.5	576.1	576.7	577.3
177.5°	576.9	576.7	576.7	576.7	576.7	576.7	576.7	577.3	577.9	578.6	579.2
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1529.1	1530.7	1524.4	1519.8	1532.3	1524.4	1524.4	1526.0	1522.9	1527.6	1526.0
5°	1443.2	1444.8	1433.8	1437.0	1430.7	1429.2	1427.6	1437.0	1435.4	1433.8	1437.0
7.5°	1358.9	1358.9	1354.2	1351.1	1351.1	1346.4	1352.6	1351.1	1354.2	1354.2	1358.9
10°	1288.6	1291.7	1283.9	1276.1	1274.5	1276.1	1276.1	1277.7	1279.2	1290.2	1288.6
12.5°	1230.8	1226.1	1224.6	1219.9	1212.1	1208.9	1205.8	1223.0	1218.3	1218.3	1218.3
15°	1166.8	1177.7	1176.1	1162.1	1159.0	1165.2	1162.1	1162.1	1177.7	1176.1	1174.6
17.5°	1132.4	1129.3	1126.1	1118.3	1119.9	1118.3	1119.9	1119.9	1129.3	1129.3	1129.3
20°	1093.3	1087.1	1087.1	1084.0	1084.0	1079.3	1085.5	1087.1	1093.3	1093.3	1094.9
22.5°	1059.0	1054.3	1054.3	1052.7	1055.9	1049.6	1055.9	1057.4	1057.4	1062.1	1062.1
25°	1029.3	1026.2	1026.2	1029.3	1029.3	1029.3	1029.3	1035.6	1030.9	1032.4	1030.9
27.5°	1002.8	1004.3	1005.9	1007.4	1005.9	1007.4	1009.0	1012.1	1013.7	1012.1	1009.0
30°	977.8	982.5	984.0	984.0	987.1	988.7	990.3	990.3	991.8	987.1	990.3
32.5°	959.0	959.0	962.1	963.7	966.8	968.4	968.4	971.5	970.0	965.3	966.8
35°	932.5	932.5	938.7	941.8	946.5	945.0	946.5	946.5	948.1	945.0	940.3
37.5°	905.9	909.0	909.0	915.3	916.9	918.4	916.9	920.0	918.4	915.3	913.7
40°	874.7	873.1	874.7	879.4	880.9	880.9	880.9	884.1	884.1	884.1	882.5
42.5°	835.6	840.3	838.8	843.4	841.9	841.9	845.0	848.1	849.7	845.0	846.6
45°	798.1	798.1	801.3	801.3	802.8	802.8	809.1	806.0	809.1	806.0	807.5
47.5°	757.5	759.1	759.1	760.7	763.8	766.9	763.8	765.3	765.3	766.9	763.8
50°	712.2	712.2	715.4	720.0	726.3	723.2	721.6	727.9	723.2	723.2	720.0
52.5°	665.4	670.1	671.6	676.3	681.0	682.6	684.1	681.0	682.6	677.9	679.4
55°	620.1	621.6	627.9	632.6	637.3	637.3	635.7	637.3	638.8	632.6	632.6
57.5°	574.8	579.5	585.7	585.7	592.0	592.0	590.4	590.4	592.0	587.3	585.7
60°	526.4	531.1	538.9	538.9	548.2	549.8	546.7	543.6	543.6	538.9	540.4
62.5°	474.8	479.5	484.2	492.0	498.3	495.1	501.4	495.1	496.7	487.3	487.3
65°	429.5	431.1	438.9	446.7	446.7	449.8	446.7	448.3	443.6	443.6	437.3
67.5°	376.4	376.4	384.2	392.0	399.9	399.9	399.9	395.2	395.2	390.5	390.5
70°	329.6	328.0	335.8	340.5	345.2	346.7	343.6	342.1	338.9	334.3	332.7
72.5°	271.8	274.9	282.7	285.8	293.6	292.1	299.9	290.5	290.5	282.7	281.1
75°	220.2	223.4	231.2	235.9	240.5	240.5	245.2	240.5	234.3	231.2	229.6
77.5°	174.9	173.4	179.6	187.4	189.0	187.4	190.6	189.0	182.7	182.7	179.6
80°	125.0	129.6	135.9	134.3	140.6	139.0	139.0	135.9	135.9	131.2	134.3
82.5°	82.8	87.5	89.0	87.5	89.0	92.2	93.7	92.2	92.2	89.0	90.6
85°	43.7	43.7	46.9	48.4	46.9	46.9	48.4	53.1	50.0	46.9	50.0
87.5°	14.1	12.5	12.5	14.1	12.5	12.5	14.1	14.1	15.6	15.6	15.6
90°	12.7	12.8	13.0	13.2	13.4	13.6	13.4	13.2	13.0	12.8	12.7
92.5°	20.4	20.3	20.1	19.9	19.7	19.5	19.7	19.9	20.1	20.3	20.4
95°	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
97.5°	51.3	51.3	51.2	51.1	51.0	50.9	51.0	51.1	51.2	51.3	51.3
100°	68.1	68.2	68.4	68.6	68.8	69.0	68.8	68.6	68.4	68.2	68.1
102.5°	88.1	88.0	87.9	87.8	87.7	87.6	87.7	87.8	87.9	88.0	88.1
105°	107.2	107.3	107.5	107.7	107.9	108.1	107.9	107.7	107.5	107.3	107.2
107.5°	129.4	129.4	129.3	129.2	129.1	129.0	129.1	129.2	129.3	129.4	129.4
110°	151.2	151.1	150.9	150.7	150.5	150.3	150.5	150.7	150.9	151.1	151.2

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0	173.0
115°	193.9	193.9	193.8	193.7	193.6	193.5	193.6	193.7	193.8	193.9	193.9
117.5°	215.7	215.5	215.2	214.9	214.6	214.3	214.6	214.9	215.2	215.5	215.7
120°	237.5	237.4	237.2	237.0	236.8	236.6	236.8	237.0	237.2	237.4	237.5
122.5°	259.3	259.1	258.8	258.5	258.2	257.9	258.2	258.5	258.8	259.1	259.3
125°	281.1	280.9	280.5	280.1	279.7	279.3	279.7	280.1	280.5	280.9	281.1
127.5°	302.4	302.2	301.8	301.4	301.0	300.6	301.0	301.4	301.8	302.2	302.4
130°	324.7	324.3	323.6	322.9	322.2	321.5	322.2	322.9	323.6	324.3	324.7
132.5°	345.6	345.3	344.8	344.3	343.8	343.3	343.8	344.3	344.8	345.3	345.6
135°	366.9	366.8	366.6	366.4	366.2	366.0	366.2	366.4	366.6	366.8	366.9
137.5°	387.4	387.2	386.9	386.6	386.3	386.0	386.3	386.6	386.9	387.2	387.4
140°	408.7	408.3	407.6	406.9	406.2	405.5	406.2	406.9	407.6	408.3	408.7
142.5°	427.8	427.5	427.0	426.5	426.0	425.5	426.0	426.5	427.0	427.5	427.8
145°	446.4	446.2	445.8	445.4	445.0	444.6	445.0	445.4	445.8	446.2	446.4
147.5°	464.6	464.3	463.7	463.0	462.4	461.8	462.4	463.0	463.7	464.3	464.6
150°	480.9	480.6	480.0	479.4	478.8	478.2	478.8	479.4	480.0	480.6	480.9
152.5°	496.3	496.1	495.6	495.1	494.6	494.1	494.6	495.1	495.6	496.1	496.3
155°	511.3	511.0	510.3	509.6	508.9	508.2	508.9	509.6	510.3	511.0	511.3
157.5°	524.0	523.7	523.1	522.5	521.9	521.3	521.9	522.5	523.1	523.7	524.0
160°	535.9	535.7	535.3	534.8	534.4	534.0	534.4	534.8	535.3	535.7	535.9
162.5°	546.8	546.4	545.7	545.0	544.3	543.6	544.3	545.0	545.7	546.4	546.8
165°	555.8	555.5	554.8	554.1	553.4	552.7	553.4	554.1	554.8	555.5	555.8
167.5°	563.6	563.3	562.7	562.0	561.4	560.8	561.4	562.0	562.7	563.3	563.6
170°	569.9	569.5	568.8	568.1	567.4	566.7	567.4	568.1	568.8	569.5	569.9
172.5°	574.5	574.1	573.4	572.7	572.0	571.3	572.0	572.7	573.4	574.1	574.5
175°	577.6	577.3	576.6	575.9	575.2	574.5	575.2	575.9	576.6	577.3	577.6
177.5°	579.5	579.1	578.4	577.7	577.0	576.3	577.0	577.7	578.4	579.1	579.5
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9	1611.9
2.5°	1530.7	1533.8	1535.4	1529.1	1524.4	1532.3	1543.2	1551.0	1557.2	1565.1	1569.7
5°	1440.1	1451.0	1451.0	1454.2	1458.8	1466.6	1487.0	1501.0	1513.5	1522.9	1530.7
7.5°	1363.6	1371.4	1376.1	1383.9	1391.7	1402.6	1426.0	1446.3	1465.1	1476.0	1488.5
10°	1294.8	1301.1	1308.9	1313.6	1327.6	1343.3	1372.9	1390.1	1412.0	1429.2	1444.8
12.5°	1229.2	1251.1	1255.8	1254.2	1266.7	1283.9	1313.6	1340.1	1363.6	1380.7	1397.9
15°	1182.4	1190.2	1199.6	1198.0	1224.6	1229.2	1254.2	1285.5	1316.7	1327.6	1343.3
17.5°	1130.8	1143.3	1152.7	1157.4	1165.2	1182.4	1205.8	1229.2	1269.8	1271.4	1312.0
20°	1090.2	1102.7	1109.0	1115.2	1119.9	1140.2	1160.5	1187.1	1219.9	1237.0	1258.9
22.5°	1063.7	1069.9	1074.6	1079.3	1085.5	1096.5	1121.5	1151.1	1173.0	1191.8	1205.8
25°	1032.4	1038.7	1044.9	1048.1	1052.7	1059.0	1077.7	1101.2	1132.4	1144.9	1159.0
27.5°	1010.6	1010.6	1013.7	1013.7	1019.9	1026.2	1040.2	1062.1	1087.1	1102.7	1121.5
30°	987.1	985.6	987.1	985.6	984.0	993.4	1005.9	1024.6	1041.8	1060.5	1073.0
32.5°	963.7	962.1	962.1	963.7	957.5	962.1	968.4	985.6	1004.3	1013.7	1027.7
35°	938.7	935.6	935.6	935.6	932.5	929.3	935.6	951.2	963.7	976.2	987.1
37.5°	913.7	909.0	909.0	905.9	902.8	898.1	898.1	910.6	927.8	932.5	946.5
40°	879.4	879.4	876.2	874.7	871.6	868.4	863.7	874.7	890.3	895.0	905.9
42.5°	845.0	840.3	838.8	838.8	838.8	834.1	830.9	838.8	848.1	855.9	862.2
45°	806.0	802.8	804.4	802.8	799.7	798.1	796.6	799.7	810.6	813.8	821.6
47.5°	763.8	762.2	762.2	760.7	759.1	760.7	754.4	762.2	765.3	768.5	774.7
50°	720.0	718.5	716.9	715.4	715.4	716.9	715.4	715.4	721.6	724.7	731.0
52.5°	676.3	671.6	671.6	670.1	670.1	666.9	670.1	671.6	674.8	677.9	681.0
55°	629.5	629.5	624.8	624.8	621.6	621.6	623.2	621.6	627.9	631.0	631.0
57.5°	584.2	577.9	579.5	576.4	573.2	571.7	571.7	574.8	577.9	577.9	581.0
60°	535.7	529.5	527.9	521.7	524.8	520.1	521.7	521.7	527.9	524.8	527.9
62.5°	487.3	479.5	474.8	471.7	471.7	473.3	470.1	468.6	471.7	474.8	481.1
65°	435.8	431.1	426.4	421.7	421.7	420.2	423.3	418.6	417.0	418.6	421.7
67.5°	382.7	378.0	373.3	368.6	370.2	365.5	362.4	367.1	363.9	365.5	368.6
70°	331.1	328.0	318.6	315.5	313.9	315.5	313.9	310.8	315.5	313.9	315.5
72.5°	279.6	276.5	271.8	264.0	264.0	262.4	260.8	260.8	259.3	259.3	259.3
75°	229.6	223.4	218.7	217.1	214.0	212.4	210.9	207.7	209.3	210.9	207.7
77.5°	178.1	170.3	168.7	168.7	164.0	164.0	165.6	164.0	162.4	162.4	162.4
80°	131.2	125.0	125.0	121.8	118.7	118.7	118.7	118.7	117.1	115.6	117.1
82.5°	84.3	82.8	81.2	81.2	84.3	78.1	81.2	79.7	78.1	78.1	76.5
85°	46.9	48.4	46.9	48.4	45.3	46.9	46.9	46.9	45.3	46.9	43.7
87.5°	17.2	17.2	17.2	18.7	18.7	18.7	18.7	18.7	20.3	18.7	18.7
90°	12.5	12.1	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	17.2	16.6	16.3	16.0
95°	35.2	34.8	34.4	34.0	33.6	32.8	32.0	31.2	30.4	30.0	29.6
97.5°	51.0	50.5	50.0	49.5	49.0	48.4	47.8	47.2	46.6	46.3	46.0
100°	68.0	67.7	67.4	67.1	66.8	66.3	65.8	65.3	64.8	64.5	64.2
102.5°	87.9	87.6	87.3	87.0	86.7	86.0	85.3	84.6	83.9	83.6	83.4
105°	107.2	107.2	107.2	107.2	107.2	106.3	105.4	104.5	103.6	103.1	103.0
107.5°	129.3	129.0	128.7	128.4	128.1	127.7	127.3	126.8	126.4	126.2	126.2
110°	151.0	150.6	150.2	149.8	149.4	149.2	149.0	148.8	148.6	148.5	148.4

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	172.7	172.2	171.7	171.2	170.7	170.7	170.7	170.7	170.7	170.7	170.7
115°	193.9	193.8	193.7	193.6	193.5	193.7	193.9	194.1	194.3	194.4	194.2
117.5°	215.7	215.7	215.7	215.7	215.7	215.9	216.1	216.3	216.5	216.6	216.6
120°	237.6	237.7	237.8	237.9	238.0	238.5	239.0	239.5	240.0	240.2	239.9
122.5°	259.5	259.8	260.1	260.4	260.7	260.9	261.1	261.3	261.5	261.6	261.4
125°	281.3	281.7	282.1	282.5	282.9	283.1	283.3	283.5	283.7	283.8	283.7
127.5°	302.7	303.3	304.0	304.6	305.2	305.4	305.6	305.8	306.0	306.1	305.8
130°	324.9	325.3	325.7	326.1	326.5	326.8	327.1	327.4	327.7	327.9	327.5
132.5°	345.9	346.4	346.9	347.4	347.9	348.1	348.3	348.5	348.7	348.8	348.4
135°	367.1	367.5	367.9	368.3	368.7	368.8	368.9	369.0	369.1	369.2	368.9
137.5°	387.6	388.1	388.6	389.1	389.6	389.3	389.0	388.7	388.4	388.3	388.0
140°	408.8	408.9	409.0	409.1	409.2	409.1	409.0	408.9	408.8	408.7	408.4
142.5°	427.8	427.9	428.0	428.1	428.2	428.0	427.8	427.6	427.4	427.3	427.1
145°	446.4	446.5	446.6	446.7	446.8	446.5	446.2	445.9	445.6	445.5	445.4
147.5°	464.6	464.6	464.6	464.6	464.6	464.3	464.0	463.7	463.4	463.2	463.0
150°	480.9	480.9	480.9	480.9	480.9	480.7	480.5	480.3	480.1	480.0	479.9
152.5°	496.2	496.0	495.8	495.6	495.4	495.3	495.2	495.1	495.0	495.0	494.8
155°	511.1	510.7	510.3	509.9	509.5	509.4	509.3	509.2	509.1	509.1	509.1
157.5°	523.8	523.4	523.0	522.6	522.2	522.1	522.0	521.9	521.8	521.8	521.8
160°	535.6	535.1	534.6	534.1	533.6	533.6	533.6	533.6	533.6	533.6	533.7
162.5°	546.5	546.0	545.5	545.0	544.5	544.4	544.3	544.2	544.1	544.0	544.2
165°	555.5	554.9	554.3	553.7	553.1	553.1	553.1	553.1	553.1	553.1	553.3
167.5°	563.3	562.7	562.0	561.4	560.8	560.7	560.6	560.5	560.4	560.4	560.6
170°	569.5	568.8	568.1	567.4	566.7	566.7	566.7	566.7	566.7	566.7	566.9
172.5°	574.2	573.6	572.9	572.3	571.7	571.7	571.7	571.7	571.7	571.7	571.9
175°	577.3	576.7	576.1	575.5	574.9	574.9	574.9	574.9	574.9	574.9	575.1
177.5°	579.2	578.6	577.9	577.3	576.7	576.7	576.7	576.7	576.7	576.7	576.9
180°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1611.9	1611.9	1611.9	1611.9
2.5°	1577.5	1582.2	1597.9	1616.6
5°	1546.3	1558.8	1580.7	1610.3
7.5°	1511.9	1530.7	1561.9	1599.4
10°	1472.9	1499.5	1538.5	1585.4
12.5°	1430.7	1465.1	1515.1	1563.5
15°	1404.2	1438.5	1483.8	1536.9
17.5°	1352.6	1393.2	1440.1	1515.1
20°	1299.5	1344.8	1405.7	1480.7
22.5°	1258.9	1307.3	1365.1	1444.8
25°	1210.5	1260.5	1323.0	1405.7
27.5°	1159.0	1208.9	1279.2	1366.7
30°	1119.9	1168.3	1235.5	1329.2
32.5°	1073.0	1119.9	1190.2	1288.6
35°	1019.9	1073.0	1140.2	1240.2
37.5°	979.3	1027.7	1098.0	1193.3
40°	935.6	977.8	1046.5	1140.2
42.5°	888.7	935.6	994.9	1088.7
45°	845.0	879.4	940.3	1029.3
47.5°	798.1	837.2	884.1	952.8
50°	748.2	781.0	832.5	879.4
52.5°	699.7	726.3	770.0	806.0
55°	648.2	674.8	707.6	729.4
57.5°	599.8	618.5	640.4	654.4
60°	540.4	559.2	573.2	587.3
62.5°	487.3	501.4	509.2	517.0
65°	432.7	440.5	445.1	451.4
67.5°	373.3	381.1	382.7	392.0
70°	318.6	320.2	323.3	328.0
72.5°	267.1	270.2	268.7	271.8
75°	214.0	217.1	214.0	217.1
77.5°	162.4	165.6	165.6	170.3
80°	117.1	118.7	120.3	120.3
82.5°	76.5	81.2	78.1	79.7
85°	43.7	45.3	45.3	46.9
87.5°	20.3	21.9	20.3	23.4
90°	3.5	2.5	1.5	0.5
92.5°	15.4	14.8	14.2	13.6
95°	28.9	28.2	27.5	26.8
97.5°	45.5	45.0	44.5	44.0
100°	63.6	63.0	62.4	61.8
102.5°	83.1	82.8	82.5	82.2
105°	102.8	102.6	102.4	102.2
107.5°	126.1	126.0	125.9	125.8
110°	148.2	148.0	147.8	147.6

TEST NUMBER: P1031493

CATALOG NUMBER: S123DIW-B1165D460UB27-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	170.6	170.5	170.4	170.3
115°	193.9	193.6	193.3	193.0
117.5°	216.5	216.4	216.3	216.2
120°	239.3	238.7	238.1	237.5
122.5°	261.0	260.6	260.2	259.8
125°	283.4	283.1	282.8	282.5
127.5°	305.2	304.5	303.9	303.3
130°	326.7	325.8	325.0	324.2
132.5°	347.6	346.7	345.9	345.1
135°	368.3	367.7	367.1	366.5
137.5°	387.5	387.0	386.5	386.0
140°	407.9	407.4	406.9	406.4
142.5°	426.6	426.1	425.6	425.1
145°	445.2	445.0	444.8	444.6
147.5°	462.6	462.2	461.8	461.4
150°	479.7	479.5	479.3	479.1
152.5°	494.5	494.2	493.9	493.6
155°	509.1	509.1	509.1	509.1
157.5°	521.9	522.0	522.1	522.2
160°	533.9	534.1	534.3	534.5
162.5°	544.5	544.8	545.1	545.4
165°	553.6	553.9	554.2	554.5
167.5°	561.0	561.4	561.8	562.2
170°	567.3	567.8	568.2	568.6
172.5°	572.3	572.7	573.1	573.5
175°	575.5	575.9	576.3	576.7
177.5°	577.3	577.7	578.1	578.5
180°	578.1	578.1	578.1	578.1

(END OF REPORT)