

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: P1031499

Luminaire Tested: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031499
REPORT IS A COMBINATION OF REPORTS P991078 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D460UB30-4F0-XX-W2A-A1
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

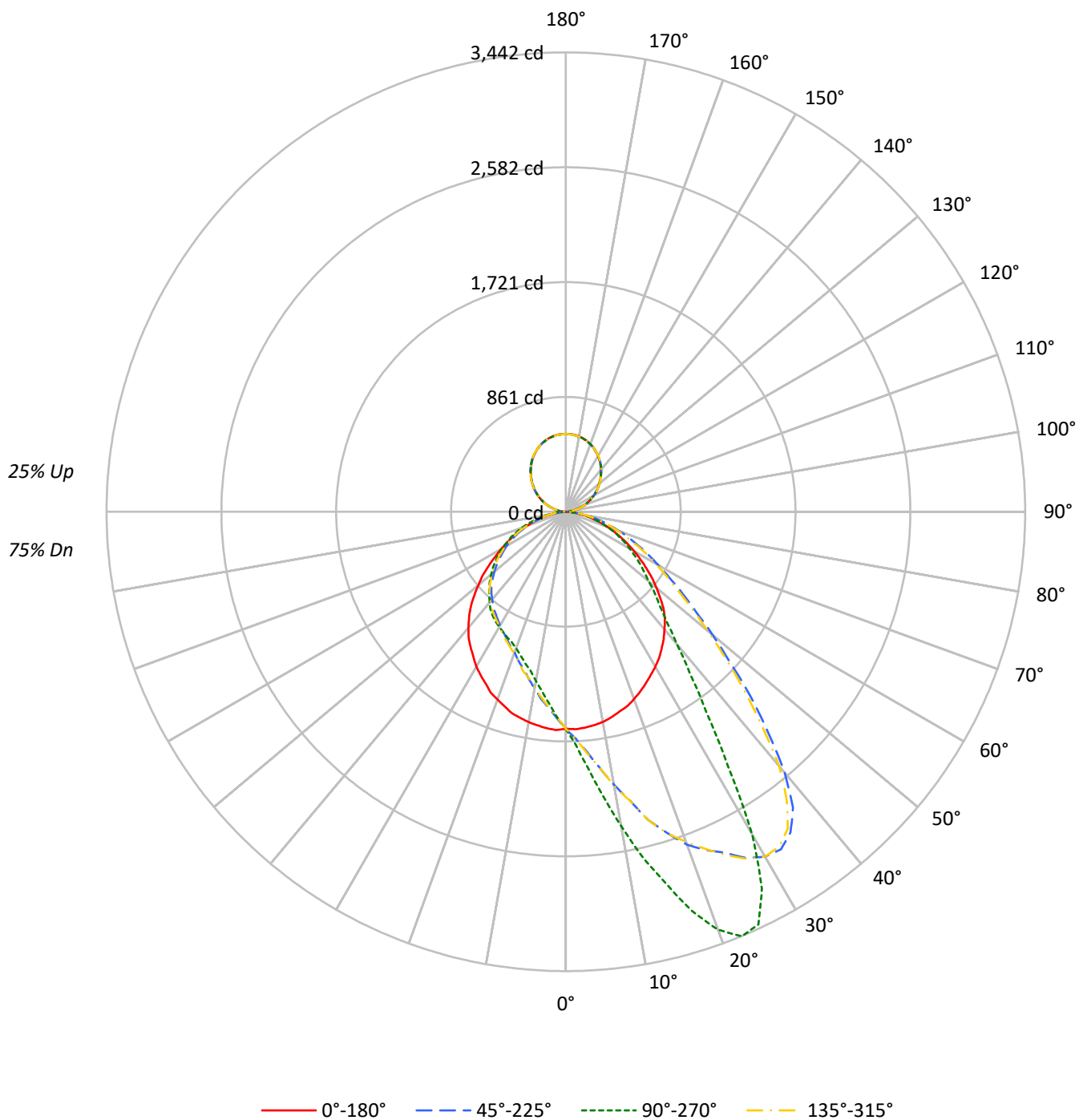
Lumens per Lamp: N/A
Luminaire Lumens: 6523.9 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.37 / 1.5
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

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°	17500	17500	17500	17500
5°	17511	20164	17563	15049
10°	17400	24401	17418	13141
15°	17160	28938	17299	11829
20°	16953	33317	16989	10885
25°	16646	34156	16682	10392
30°	16427	28220	16427	10069
35°	16154	18873	16052	9784
40°	15828	13624	15633	9347
45°	15419	10792	14974	8805
50°	14424	9165	13910	8271
55°	13330	8053	12789	7677
60°	12224	7012	11572	7052
65°	11006	6005	10472	6220
70°	9742	4984	9094	5243
75°	8331	3759	7790	4047
80°	6585	2509	6075	2659
85°	4543	1153	3631	1048

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 35°

Vertical Angle: 45°

Luminance: 28223 cd/sqm

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	2.5
10°-20°	513.6	7.9
20°-30°	864.1	13.2
30°-40°	976.5	15.0
40°-50°	874.6	13.4
50°-60°	706.1	10.8
60°-70°	492.0	7.5
70°-80°	258.2	4.0
80°-90°	63.1	1.0
90°-100°	37.5	0.6
100°-110°	113.6	1.7
110°-120°	193.4	3.0
120°-130°	254.5	3.9
130°-140°	286.0	4.4
140°-150°	281.2	4.3
150°-160°	236.7	3.6
160°-170°	157.6	2.4
170°-180°	55.2	0.8
0°-30°	1537.6	23.6
0°-40°	2514.1	38.5
0°-60°	4094.8	62.8
0°-90°	4908.2	75.2
90°-120°	344.5	5.3
90°-150°	1166.2	17.9
90°-180°	1616.0	24.8
0°-180°	6523.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1626	1626	1626	1626	1626	
5°	1624	1932	1629	1442	1624	154
15°	1550	2875	1563	1175	1550	438
25°	1418	3412	1421	1038	1418	654
35°	1251	1838	1243	953	1251	783
45°	1038	992	1008	810	1038	794
55°	736	674	706	643	736	659
65°	455	438	433	454	455	453
75°	219	225	205	243	219	235
85°	47	52	38	47	47	54
90°	0	14	0	14	0	5
95°	27	36	27	36	27	30
105°	103	109	103	109	103	110
115°	195	195	195	195	195	193
125°	285	282	285	282	285	254
135°	370	369	370	369	370	285
145°	448	448	448	448	448	280
155°	514	513	514	513	514	236
165°	559	558	559	558	559	158
175°	582	580	582	580	582	55
180°	583	583	583	583	583	

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1630.6	1643.2	1649.5	1658.9	1668.4	1682.5	1687.3	1695.1	1692.0	1698.3	1701.4
5°	1624.2	1646.3	1665.2	1688.8	1710.9	1726.7	1742.4	1767.6	1786.5	1789.7	1803.8
7.5°	1613.2	1644.7	1677.8	1710.9	1753.4	1778.6	1807.0	1841.7	1870.0	1915.7	1933.0
10°	1599.0	1643.2	1690.4	1736.1	1794.4	1833.8	1868.4	1926.7	1985.0	2032.3	2076.4
12.5°	1577.0	1632.1	1693.6	1761.3	1836.9	1882.6	1929.9	2007.1	2095.3	2167.8	2215.0
15°	1550.2	1619.5	1698.3	1770.8	1854.3	1939.3	1989.7	2076.4	2202.4	2270.2	2391.5
17.5°	1528.1	1599.0	1677.8	1791.2	1904.7	1989.7	2026.0	2185.1	2271.7	2385.2	2522.2
20°	1493.5	1583.3	1684.1	1797.5	1944.1	1996.0	2070.1	2230.8	2337.9	2486.0	2654.6
22.5°	1457.3	1553.4	1674.7	1792.8	1956.7	2011.8	2112.6	2240.2	2410.4	2556.9	2742.8
25°	1417.9	1521.8	1644.7	1784.9	1945.6	2026.0	2120.5	2278.0	2462.4	2646.7	2818.4
27.5°	1378.5	1491.9	1619.5	1759.7	1915.7	2010.2	2104.7	2268.6	2504.9	2705.0	2924.0
30°	1340.7	1454.1	1581.7	1725.1	1888.9	1980.3	2070.1	2274.9	2538.0	2763.3	2983.8
32.5°	1299.7	1416.3	1550.2	1669.9	1835.4	1933.0	2033.9	2274.9	2558.5	2797.9	2999.6
35°	1250.9	1370.6	1485.6	1605.3	1769.2	1877.9	1991.3	2259.1	2577.4	2809.0	2933.4
37.5°	1203.6	1309.2	1408.4	1525.0	1696.7	1813.3	1944.1	2240.2	2567.9	2761.7	2796.4
40°	1150.1	1255.6	1335.9	1444.7	1625.8	1761.3	1893.6	2215.0	2527.0	2649.8	2549.0
42.5°	1098.1	1181.6	1250.9	1356.4	1553.4	1685.7	1829.1	2169.3	2446.6	2471.8	2245.0
45°	1038.2	1098.1	1159.5	1279.2	1474.6	1610.1	1769.2	2103.2	2317.4	2245.0	1958.2
47.5°	961.0	1014.6	1082.3	1192.6	1391.1	1531.3	1682.5	2018.1	2130.0	1978.7	1665.2
50°	887.0	932.6	995.7	1102.8	1302.9	1439.9	1600.6	1884.2	1939.3	1701.4	1435.2
52.5°	812.9	847.6	909.0	1016.1	1216.2	1348.6	1495.1	1747.1	1715.6	1460.4	1224.1
55°	735.7	765.6	823.9	929.5	1115.4	1241.4	1381.6	1578.6	1496.6	1254.0	1065.0
57.5°	660.1	691.6	751.5	839.7	1014.6	1137.4	1249.3	1403.7	1280.8	1087.0	920.0
60°	592.4	619.1	664.8	751.5	910.6	1009.8	1112.2	1217.8	1115.4	927.9	800.3
62.5°	521.5	546.7	589.2	668.0	805.0	893.3	975.2	1061.8	948.4	811.3	697.9
65°	455.3	475.8	515.2	587.6	699.5	772.0	838.1	898.0	806.6	680.6	595.5
67.5°	395.4	412.8	445.8	510.4	605.0	656.9	710.5	760.9	683.7	582.9	510.4
70°	330.8	345.0	374.9	422.2	497.8	551.4	590.8	628.6	559.3	478.9	430.1
72.5°	274.1	288.3	307.2	356.0	408.0	441.1	483.7	504.1	464.7	398.6	349.7
75°	219.0	230.0	247.3	278.8	327.7	349.7	376.5	392.3	356.0	311.9	282.0
77.5°	171.7	176.4	189.0	211.1	244.2	269.4	289.9	299.3	274.1	245.8	220.6
80°	121.3	127.6	137.1	156.0	181.2	189.0	201.7	212.7	196.9	171.7	156.0
82.5°	80.3	88.2	92.9	100.8	116.6	126.0	129.2	138.6	124.5	115.0	108.7
85°	47.3	50.4	52.0	56.7	64.6	69.3	74.0	75.6	72.5	70.9	64.6
87.5°	23.6	23.6	23.6	26.8	28.4	31.5	33.1	33.1	33.1	31.5	29.9
90°	0.5	1.5	2.5	3.5	4.5	5.0	5.7	7.0	8.3	9.7	11.0
92.5°	13.7	14.3	14.9	15.6	16.2	16.5	16.8	17.4	18.0	18.6	19.2
95°	27.0	27.7	28.4	29.1	29.8	30.2	30.6	31.4	32.3	33.1	33.9
97.5°	44.4	44.9	45.4	45.9	46.4	46.7	47.0	47.6	48.3	48.9	49.5
100°	62.3	62.9	63.5	64.1	64.7	65.0	65.3	65.8	66.3	66.8	67.3
102.5°	82.9	83.2	83.5	83.8	84.1	84.3	84.7	85.4	86.1	86.8	87.5
105°	103.1	103.3	103.5	103.7	103.9	104.0	104.5	105.4	106.3	107.2	108.1
107.5°	126.9	127.0	127.1	127.2	127.3	127.3	127.5	127.9	128.4	128.8	129.2
110°	148.9	149.1	149.3	149.5	149.7	149.8	149.9	150.1	150.3	150.5	150.7

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	171.8	171.9	172.0	172.1	172.2	172.2	172.2	172.2	172.2	172.2	172.2
115°	194.7	195.0	195.3	195.6	195.9	196.1	196.0	195.8	195.5	195.3	195.1
117.5°	218.0	218.1	218.2	218.3	218.4	218.5	218.4	218.2	218.0	217.8	217.6
120°	239.6	240.2	240.8	241.4	242.0	242.3	242.0	241.5	241.0	240.5	240.0
122.5°	262.0	262.4	262.8	263.3	263.7	263.9	263.8	263.6	263.3	263.1	262.9
125°	284.9	285.2	285.5	285.8	286.1	286.3	286.2	286.0	285.8	285.6	285.4
127.5°	306.0	306.6	307.2	307.8	308.4	308.7	308.6	308.4	308.2	308.0	307.8
130°	327.1	327.9	328.7	329.5	330.3	330.7	330.6	330.3	330.0	329.7	329.4
132.5°	348.1	348.9	349.7	350.6	351.4	351.8	351.7	351.5	351.3	351.1	350.9
135°	369.7	370.3	370.9	371.5	372.1	372.4	372.4	372.3	372.2	372.1	372.0
137.5°	389.4	389.9	390.4	390.9	391.4	391.7	391.8	392.1	392.4	392.7	393.0
140°	410.0	410.5	411.0	411.5	412.0	412.3	412.3	412.4	412.5	412.6	412.7
142.5°	428.8	429.3	429.8	430.3	430.8	431.1	431.2	431.4	431.6	431.8	432.0
145°	448.5	448.7	448.9	449.1	449.3	449.4	449.6	449.9	450.2	450.5	450.8
147.5°	465.4	465.8	466.2	466.6	467.0	467.2	467.4	467.7	468.0	468.3	468.6
150°	483.3	483.5	483.7	483.9	484.1	484.2	484.3	484.5	484.7	484.9	485.1
152.5°	497.9	498.2	498.5	498.8	499.1	499.3	499.4	499.5	499.6	499.7	499.8
155°	513.5	513.5	513.5	513.5	513.5	513.5	513.6	513.7	513.8	513.9	514.0
157.5°	526.8	526.7	526.6	526.5	526.4	526.3	526.4	526.5	526.6	526.7	526.8
160°	539.2	539.0	538.8	538.5	538.3	538.2	538.2	538.2	538.2	538.2	538.2
162.5°	550.2	549.9	549.6	549.3	549.0	548.8	548.8	548.9	549.0	549.1	549.2
165°	559.3	559.0	558.7	558.4	558.1	557.9	557.9	557.9	557.9	557.9	557.9
167.5°	567.1	566.7	566.3	565.9	565.5	565.3	565.3	565.4	565.5	565.6	565.7
170°	573.5	573.1	572.7	572.3	571.9	571.7	571.7	571.7	571.7	571.7	571.7
172.5°	578.6	578.2	577.8	577.3	576.9	576.7	576.7	576.7	576.7	576.7	576.7
175°	581.8	581.4	581.0	580.5	580.1	579.9	579.9	579.9	579.9	579.9	579.9
177.5°	583.6	583.2	582.8	582.4	582.0	581.8	581.8	581.8	581.8	581.8	581.8
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1712.5	1715.6	1726.7	1734.5	1750.3	1748.7	1748.7	1747.1	1742.4	1750.3	1755.0
5°	1832.2	1859.0	1862.1	1896.8	1898.4	1912.5	1922.0	1914.1	1933.0	1931.5	1917.3
7.5°	1980.3	2016.5	2033.9	2066.9	2104.7	2095.3	2131.5	2137.8	2134.7	2150.4	2161.5
10°	2142.6	2205.6	2249.7	2311.1	2326.9	2336.3	2360.0	2380.4	2421.4	2389.9	2410.4
12.5°	2328.5	2374.1	2432.4	2530.1	2578.9	2610.5	2621.5	2635.7	2664.0	2646.7	2648.3
15°	2484.4	2545.9	2645.1	2766.4	2780.6	2820.0	2810.5	2895.6	2936.6	2875.1	2909.8
17.5°	2646.7	2728.6	2846.8	2952.3	3012.2	3039.0	3064.2	3146.1	3142.9	3133.5	3141.4
20°	2750.7	2884.6	3031.1	3171.3	3188.6	3209.1	3276.9	3311.5	3305.2	3332.0	3349.3
22.5°	2897.2	3039.0	3194.9	3287.9	3327.3	3350.9	3404.5	3426.5	3436.0	3442.3	3431.2
25°	3020.1	3171.3	3286.3	3368.2	3391.9	3404.5	3421.8	3428.1	3423.4	3412.3	3421.8
27.5°	3103.6	3224.9	3303.6	3341.4	3328.8	3308.4	3275.3	3253.2	3204.4	3180.8	3209.1
30°	3138.2	3191.8	3215.4	3152.4	3089.4	3039.0	2976.0	2859.4	2768.0	2794.8	2758.5
32.5°	3083.1	3048.4	2935.0	2772.7	2723.9	2642.0	2463.9	2326.9	2331.6	2259.1	2289.1
35°	2920.8	2763.3	2549.0	2303.3	2238.7	2194.5	1999.2	1969.3	1906.2	1838.5	1857.4
37.5°	2634.1	2404.1	2144.1	1963.0	1866.9	1770.8	1660.5	1594.3	1556.5	1528.1	1550.2
40°	2284.3	2003.9	1789.7	1627.4	1545.5	1484.0	1408.4	1342.3	1299.7	1295.0	1302.9
42.5°	1940.9	1704.6	1507.7	1353.3	1326.5	1254.0	1205.2	1153.2	1140.6	1120.1	1131.1
45°	1643.2	1451.0	1288.7	1162.7	1131.1	1112.2	1052.4	1019.3	1005.1	992.5	1011.4
47.5°	1427.3	1225.7	1107.5	1031.9	1000.4	968.9	935.8	913.7	902.7	904.3	902.7
50°	1219.4	1071.3	967.3	909.0	890.1	868.1	841.3	827.1	822.4	808.2	819.2
52.5°	1049.2	942.1	869.6	814.5	800.3	784.6	762.5	754.6	743.6	740.4	740.4
55°	912.2	828.7	770.4	734.1	716.8	704.2	691.6	682.2	674.3	674.3	674.3
57.5°	805.0	732.6	690.0	658.5	652.2	639.6	625.4	625.4	614.4	612.8	617.6
60°	713.7	649.1	616.0	589.2	579.8	576.6	562.4	562.4	559.3	551.4	557.7
62.5°	620.7	573.4	545.1	524.6	515.2	515.2	504.1	496.3	496.3	497.8	494.7
65°	535.6	501.0	475.8	460.0	455.3	449.0	447.4	441.1	436.4	438.0	436.4
67.5°	460.0	433.2	415.9	403.3	395.4	392.3	387.6	387.6	384.4	386.0	378.1
70°	392.3	365.5	351.3	338.7	335.6	335.6	329.3	330.8	327.7	332.4	329.3
72.5°	323.0	302.5	291.5	286.7	283.6	282.0	278.8	275.7	274.1	277.3	275.7
75°	261.5	244.2	236.3	233.2	230.0	230.0	228.4	226.9	225.3	225.3	225.3
77.5°	203.2	192.2	182.7	185.9	181.2	182.7	178.0	178.0	179.6	178.0	178.0
80°	149.7	141.8	141.8	138.6	132.3	135.5	135.5	130.8	129.2	132.3	127.6
82.5°	99.3	97.7	94.5	92.9	89.8	91.4	89.8	88.2	86.6	89.8	86.6
85°	58.3	58.3	56.7	53.6	56.7	55.1	53.6	53.6	52.0	52.0	52.0
87.5°	29.9	26.8	26.8	25.2	26.8	23.6	25.2	23.6	22.1	23.6	22.1
90°	11.4	11.8	12.2	12.6	12.8	12.9	13.1	13.3	13.5	13.7	13.5
92.5°	19.5	19.8	20.1	20.4	20.6	20.5	20.3	20.1	19.9	19.7	19.9
95°	34.3	34.7	35.1	35.5	35.7	35.7	35.7	35.7	35.7	35.7	35.7
97.5°	50.0	50.5	51.0	51.5	51.8	51.7	51.6	51.5	51.4	51.3	51.4
100°	67.6	67.9	68.2	68.5	68.7	68.8	69.0	69.2	69.4	69.6	69.4
102.5°	87.8	88.1	88.4	88.7	88.9	88.8	88.7	88.6	88.5	88.4	88.5
105°	108.1	108.1	108.1	108.1	108.1	108.2	108.4	108.6	108.8	109.0	108.8
107.5°	129.5	129.8	130.1	130.4	130.6	130.5	130.4	130.3	130.2	130.1	130.2
110°	151.1	151.5	151.9	152.3	152.5	152.4	152.2	152.0	151.8	151.6	151.8

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
112.5°	172.7	173.2	173.7	174.2	174.5	174.5	174.5	174.5	174.5	174.5	174.5
115°	195.2	195.3	195.4	195.5	195.6	195.5	195.4	195.3	195.2	195.1	195.2
117.5°	217.6	217.6	217.6	217.6	217.6	217.4	217.1	216.8	216.5	216.2	216.5
120°	239.9	239.8	239.7	239.6	239.6	239.5	239.3	239.1	238.9	238.7	238.9
122.5°	262.6	262.3	262.0	261.7	261.6	261.4	261.1	260.8	260.5	260.2	260.5
125°	285.0	284.6	284.2	283.8	283.6	283.4	283.0	282.5	282.1	281.7	282.1
127.5°	307.2	306.6	306.0	305.4	305.1	304.9	304.5	304.0	303.6	303.2	303.6
130°	329.0	328.6	328.1	327.7	327.5	327.1	326.4	325.7	325.0	324.3	325.0
132.5°	350.4	349.9	349.4	348.9	348.6	348.3	347.8	347.3	346.8	346.3	346.8
135°	371.6	371.2	370.7	370.3	370.1	370.0	369.8	369.6	369.4	369.2	369.4
137.5°	392.5	392.0	391.5	391.0	390.7	390.6	390.3	390.0	389.7	389.4	389.7
140°	412.6	412.5	412.4	412.3	412.3	411.9	411.2	410.5	409.8	409.1	409.8
142.5°	431.9	431.8	431.7	431.6	431.5	431.2	430.7	430.2	429.7	429.2	429.7
145°	450.7	450.6	450.5	450.4	450.3	450.1	449.7	449.3	448.9	448.5	448.9
147.5°	468.6	468.6	468.6	468.6	468.6	468.3	467.7	467.1	466.5	465.9	466.5
150°	485.1	485.1	485.1	485.1	485.1	484.8	484.2	483.6	483.0	482.4	483.0
152.5°	500.0	500.2	500.4	500.6	500.7	500.4	499.9	499.4	498.9	498.4	498.9
155°	514.4	514.8	515.2	515.6	515.8	515.4	514.7	514.0	513.3	512.6	513.3
157.5°	527.2	527.6	528.0	528.4	528.6	528.3	527.7	527.1	526.5	525.9	526.5
160°	538.7	539.2	539.7	540.2	540.5	540.3	539.9	539.5	539.1	538.7	539.1
162.5°	549.7	550.2	550.7	551.2	551.5	551.1	550.4	549.7	549.0	548.3	549.0
165°	558.5	559.1	559.8	560.4	560.7	560.3	559.6	558.9	558.2	557.5	558.2
167.5°	566.3	566.9	567.6	568.2	568.5	568.2	567.6	566.9	566.3	565.7	566.3
170°	572.4	573.1	573.8	574.5	574.9	574.5	573.8	573.1	572.4	571.7	572.4
172.5°	577.3	577.9	578.6	579.2	579.5	579.1	578.4	577.7	577.0	576.3	577.0
175°	580.5	581.1	581.8	582.4	582.7	582.3	581.6	580.9	580.2	579.5	580.2
177.5°	582.4	583.0	583.6	584.2	584.5	584.1	583.4	582.7	582.0	581.3	582.0
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1742.4	1747.1	1734.5	1731.4	1731.4	1737.7	1733.0	1690.4	1698.3	1688.8	1685.7
5°	1934.6	1925.2	1912.5	1906.2	1898.4	1876.3	1874.7	1825.9	1816.4	1784.9	1770.8
7.5°	2145.7	2137.8	2100.0	2095.3	2092.1	2071.7	2019.7	1967.7	1929.9	1893.6	1859.0
10°	2386.7	2363.1	2345.8	2311.1	2293.8	2265.4	2197.7	2148.9	2084.3	2029.1	1956.7
12.5°	2676.6	2649.8	2591.6	2566.3	2544.3	2465.5	2397.8	2342.6	2216.6	2178.8	2089.0
15°	2889.3	2832.6	2826.3	2771.1	2768.0	2681.4	2552.2	2492.3	2394.6	2256.0	2163.0
17.5°	3119.3	3068.9	3029.5	2963.3	2953.9	2872.0	2777.5	2630.9	2523.8	2391.5	2273.3
20°	3287.9	3261.1	3193.4	3166.6	3111.4	3042.1	2944.4	2763.3	2632.5	2500.2	2355.2
22.5°	3421.8	3395.0	3341.4	3305.2	3273.7	3183.9	3067.3	2912.9	2733.3	2560.0	2410.4
25°	3420.2	3412.3	3390.3	3373.0	3349.3	3283.2	3185.5	3037.4	2837.3	2646.7	2438.7
27.5°	3226.4	3248.5	3286.3	3305.2	3300.5	3291.0	3235.9	3111.4	2931.8	2705.0	2471.8
30°	2823.1	2903.5	2974.4	3068.9	3097.3	3166.6	3198.1	3127.2	2983.8	2772.7	2514.4
32.5°	2341.1	2457.6	2612.0	2664.0	2753.8	2887.7	3037.4	3064.2	2974.4	2812.1	2541.1
35°	1920.4	2016.5	2136.3	2218.2	2298.5	2515.9	2705.0	2868.8	2898.8	2791.6	2534.8
37.5°	1589.6	1657.3	1762.9	1832.2	1906.2	2092.1	2356.8	2569.5	2719.2	2722.3	2517.5
40°	1350.1	1380.1	1471.4	1521.8	1592.7	1753.4	1989.7	2267.0	2486.0	2586.8	2471.8
42.5°	1143.7	1183.1	1258.8	1296.6	1342.3	1482.5	1638.4	1901.5	2172.5	2388.3	2386.7
45°	1020.9	1049.2	1083.9	1115.4	1167.4	1250.9	1428.9	1625.8	1885.8	2130.0	2226.1
47.5°	912.2	938.9	973.6	983.1	1017.7	1096.5	1205.2	1376.9	1619.5	1862.1	2043.3
50°	820.8	842.8	866.5	883.8	899.6	964.2	1046.1	1191.0	1384.8	1619.5	1844.8
52.5°	749.9	765.6	786.1	795.6	809.8	857.0	920.0	1027.2	1186.3	1400.5	1619.5
55°	683.7	694.8	707.4	723.1	729.4	764.1	812.9	904.3	1022.4	1214.6	1422.6
57.5°	622.3	627.0	634.9	644.3	652.2	682.2	724.7	786.1	890.1	1038.2	1235.1
60°	553.0	565.6	570.3	579.8	584.5	608.1	641.2	693.2	773.5	901.1	1049.2
62.5°	494.7	502.6	510.4	515.2	526.2	534.1	560.8	608.1	674.3	768.8	902.7
65°	442.7	445.8	450.6	455.3	458.4	467.9	493.1	524.6	575.0	658.5	762.5
67.5°	382.8	386.0	392.3	393.9	397.0	409.6	423.8	450.6	493.1	556.1	641.2
70°	324.5	329.3	332.4	335.6	340.3	345.0	360.8	382.8	415.9	460.0	526.2
72.5°	274.1	278.8	278.8	282.0	280.4	286.7	302.5	318.2	340.3	376.5	434.8
75°	223.7	223.7	226.9	228.4	230.0	236.3	242.6	255.2	272.5	300.9	337.1
77.5°	176.4	174.9	178.0	178.0	178.0	182.7	189.0	195.4	206.4	226.9	255.2
80°	129.2	129.2	132.3	133.9	130.8	132.3	135.5	141.8	149.7	163.8	179.6
82.5°	85.1	91.4	89.8	91.4	89.8	92.9	94.5	96.1	99.3	105.6	116.6
85°	52.0	52.0	52.0	53.6	52.0	53.6	53.6	53.6	55.1	58.3	63.0
87.5°	22.1	22.1	22.1	23.6	22.1	22.1	23.6	22.1	23.6	23.6	25.2
90°	13.3	13.1	12.9	12.8	12.6	12.2	11.8	11.4	11.0	9.7	8.3
92.5°	20.1	20.3	20.5	20.6	20.4	20.1	19.8	19.5	19.2	18.6	18.0
95°	35.7	35.7	35.7	35.7	35.5	35.1	34.7	34.3	33.9	33.1	32.3
97.5°	51.5	51.6	51.7	51.8	51.5	51.0	50.5	50.0	49.5	48.9	48.3
100°	69.2	69.0	68.8	68.7	68.5	68.2	67.9	67.6	67.3	66.8	66.3
102.5°	88.6	88.7	88.8	88.9	88.7	88.4	88.1	87.8	87.5	86.8	86.1
105°	108.6	108.4	108.2	108.1	108.1	108.1	108.1	108.1	108.1	107.2	106.3
107.5°	130.3	130.4	130.5	130.6	130.4	130.1	129.8	129.5	129.2	128.8	128.4
110°	152.0	152.2	152.4	152.5	152.3	151.9	151.5	151.1	150.7	150.5	150.3

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
112.5°	174.5	174.5	174.5	174.5	174.2	173.7	173.2	172.7	172.2	172.2	172.2
115°	195.3	195.4	195.5	195.6	195.5	195.4	195.3	195.2	195.1	195.3	195.5
117.5°	216.8	217.1	217.4	217.6	217.6	217.6	217.6	217.6	217.6	217.8	218.0
120°	239.1	239.3	239.5	239.6	239.6	239.7	239.8	239.9	240.0	240.5	241.0
122.5°	260.8	261.1	261.4	261.6	261.7	262.0	262.3	262.6	262.9	263.1	263.3
125°	282.5	283.0	283.4	283.6	283.8	284.2	284.6	285.0	285.4	285.6	285.8
127.5°	304.0	304.5	304.9	305.1	305.4	306.0	306.6	307.2	307.8	308.0	308.2
130°	325.7	326.4	327.1	327.5	327.7	328.1	328.6	329.0	329.4	329.7	330.0
132.5°	347.3	347.8	348.3	348.6	348.9	349.4	349.9	350.4	350.9	351.1	351.3
135°	369.6	369.8	370.0	370.1	370.3	370.7	371.2	371.6	372.0	372.1	372.2
137.5°	390.0	390.3	390.6	390.7	391.0	391.5	392.0	392.5	393.0	392.7	392.4
140°	410.5	411.2	411.9	412.3	412.3	412.4	412.5	412.6	412.7	412.6	412.5
142.5°	430.2	430.7	431.2	431.5	431.6	431.7	431.8	431.9	432.0	431.8	431.6
145°	449.3	449.7	450.1	450.3	450.4	450.5	450.6	450.7	450.8	450.5	450.2
147.5°	467.1	467.7	468.3	468.6	468.6	468.6	468.6	468.6	468.6	468.3	468.0
150°	483.6	484.2	484.8	485.1	485.1	485.1	485.1	485.1	485.1	484.9	484.7
152.5°	499.4	499.9	500.4	500.7	500.6	500.4	500.2	500.0	499.8	499.7	499.6
155°	514.0	514.7	515.4	515.8	515.6	515.2	514.8	514.4	514.0	513.9	513.8
157.5°	527.1	527.7	528.3	528.6	528.4	528.0	527.6	527.2	526.8	526.7	526.6
160°	539.5	539.9	540.3	540.5	540.2	539.7	539.2	538.7	538.2	538.2	538.2
162.5°	549.7	550.4	551.1	551.5	551.2	550.7	550.2	549.7	549.2	549.1	549.0
165°	558.9	559.6	560.3	560.7	560.4	559.8	559.1	558.5	557.9	557.9	557.9
167.5°	566.9	567.6	568.2	568.5	568.2	567.6	566.9	566.3	565.7	565.6	565.5
170°	573.1	573.8	574.5	574.9	574.5	573.8	573.1	572.4	571.7	571.7	571.7
172.5°	577.7	578.4	579.1	579.5	579.2	578.6	577.9	577.3	576.7	576.7	576.7
175°	580.9	581.6	582.3	582.7	582.4	581.8	581.1	580.5	579.9	579.9	579.9
177.5°	582.7	583.4	584.1	584.5	584.2	583.6	583.0	582.4	581.8	581.8	581.8
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1669.9	1665.2	1665.2	1662.1	1652.6	1635.3	1633.7	1636.9	1627.4	1617.9	1603.8
5°	1751.9	1721.9	1712.5	1703.0	1684.1	1652.6	1640.0	1629.0	1611.6	1591.2	1569.1
7.5°	1821.2	1778.6	1766.0	1748.7	1710.9	1666.8	1638.4	1614.8	1591.2	1562.8	1536.0
10°	1907.8	1846.4	1816.4	1791.2	1739.3	1677.8	1635.3	1600.6	1562.8	1528.1	1493.5
12.5°	2005.5	1906.2	1896.8	1835.4	1775.5	1684.1	1632.1	1581.7	1531.3	1488.8	1452.5
15°	2087.4	1978.7	1939.3	1898.4	1783.4	1669.9	1619.5	1562.8	1504.5	1458.8	1405.3
17.5°	2139.4	2049.6	1966.1	1911.0	1791.2	1690.4	1592.7	1528.1	1466.7	1403.7	1359.6
20°	2202.4	2071.7	1999.2	1925.2	1807.0	1674.7	1577.0	1496.6	1421.0	1364.3	1310.7
22.5°	2265.4	2089.0	2029.1	1948.8	1810.1	1658.9	1548.6	1468.3	1381.6	1324.9	1266.6
25°	2259.1	2114.2	2015.0	1947.2	1778.6	1644.7	1515.5	1421.0	1340.7	1268.2	1209.9
27.5°	2263.9	2085.8	1985.0	1906.2	1756.6	1624.2	1480.9	1381.6	1298.1	1222.5	1161.1
30°	2265.4	2043.3	1955.1	1860.6	1715.6	1575.4	1441.5	1340.7	1252.5	1170.5	1115.4
32.5°	2260.7	2008.6	1898.4	1813.3	1651.0	1528.1	1395.8	1288.7	1198.9	1123.3	1071.3
35°	2249.7	1967.7	1840.1	1733.0	1584.9	1460.4	1353.3	1243.0	1146.9	1077.6	1017.7
37.5°	2219.8	1923.6	1778.6	1673.1	1507.7	1381.6	1287.1	1195.7	1102.8	1020.9	970.5
40°	2197.7	1863.7	1717.2	1602.2	1424.2	1301.3	1222.5	1135.9	1044.5	970.5	921.6
42.5°	2147.3	1807.0	1654.2	1517.1	1342.3	1216.2	1142.2	1072.9	994.1	921.6	877.5
45°	2065.4	1745.6	1577.0	1438.4	1252.5	1132.7	1065.0	1008.3	938.9	869.6	825.5
47.5°	1950.4	1657.3	1495.1	1356.4	1164.2	1042.9	975.2	932.6	877.5	819.2	781.4
50°	1825.9	1561.2	1411.6	1274.5	1079.2	961.0	894.8	855.4	819.2	765.6	729.4
52.5°	1663.6	1458.8	1315.5	1184.7	987.8	874.4	816.1	787.7	749.9	712.1	680.6
55°	1506.1	1326.5	1208.3	1083.9	898.0	792.4	735.7	705.8	683.7	652.2	627.0
57.5°	1323.3	1203.6	1094.9	981.5	814.5	718.4	664.8	628.6	614.4	600.2	576.6
60°	1154.8	1063.4	975.2	880.7	727.8	641.2	589.2	560.8	546.7	537.2	521.5
62.5°	1000.4	929.5	853.9	778.3	639.6	560.8	521.5	493.1	480.5	478.9	464.7
65°	852.3	801.9	740.4	666.4	557.7	488.4	450.6	433.2	419.1	419.1	408.0
67.5°	704.2	669.5	620.7	568.7	483.7	419.1	384.4	368.6	360.8	360.8	352.9
70°	586.1	562.4	518.3	472.6	398.6	349.7	323.0	308.8	304.1	305.6	299.3
72.5°	475.8	450.6	414.3	381.2	326.1	289.9	271.0	255.2	247.3	248.9	247.3
75°	368.6	356.0	324.5	299.3	255.2	230.0	212.7	204.8	198.5	200.1	196.9
77.5°	277.3	258.4	241.0	223.7	196.9	176.4	162.3	154.4	149.7	149.7	149.7
80°	189.0	185.9	171.7	162.3	140.2	124.5	113.4	111.9	107.1	107.1	107.1
82.5°	122.9	115.0	107.1	100.8	88.2	78.8	74.0	70.9	69.3	67.7	70.9
85°	67.7	63.0	59.9	53.6	48.8	44.1	39.4	37.8	36.2	37.8	36.2
87.5°	26.8	22.1	22.1	20.5	18.9	17.3	17.3	14.2	14.2	12.6	12.6
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°	17.4	16.8	16.5	16.2	15.6	14.9	14.3	13.7	14.3	14.9	15.6
95°	31.4	30.6	30.2	29.8	29.1	28.4	27.7	27.0	27.7	28.4	29.1
97.5°	47.6	47.0	46.7	46.4	45.9	45.4	44.9	44.4	44.9	45.4	45.9
100°	65.8	65.3	65.0	64.7	64.1	63.5	62.9	62.3	62.9	63.5	64.1
102.5°	85.4	84.7	84.3	84.1	83.8	83.5	83.2	82.9	83.2	83.5	83.8
105°	105.4	104.5	104.0	103.9	103.7	103.5	103.3	103.1	103.3	103.5	103.7
107.5°	127.9	127.5	127.3	127.3	127.2	127.1	127.0	126.9	127.0	127.1	127.2
110°	150.1	149.9	149.8	149.7	149.5	149.3	149.1	148.9	149.1	149.3	149.5

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
112.5°	172.2	172.2	172.2	172.2	172.1	172.0	171.9	171.8	171.9	172.0	172.1
115°	195.8	196.0	196.1	195.9	195.6	195.3	195.0	194.7	195.0	195.3	195.6
117.5°	218.2	218.4	218.5	218.4	218.3	218.2	218.1	218.0	218.1	218.2	218.3
120°	241.5	242.0	242.3	242.0	241.4	240.8	240.2	239.6	240.2	240.8	241.4
122.5°	263.6	263.8	263.9	263.7	263.3	262.8	262.4	262.0	262.4	262.8	263.3
125°	286.0	286.2	286.3	286.1	285.8	285.5	285.2	284.9	285.2	285.5	285.8
127.5°	308.4	308.6	308.7	308.4	307.8	307.2	306.6	306.0	306.6	307.2	307.8
130°	330.3	330.6	330.7	330.3	329.5	328.7	327.9	327.1	327.9	328.7	329.5
132.5°	351.5	351.7	351.8	351.4	350.6	349.7	348.9	348.1	348.9	349.7	350.6
135°	372.3	372.4	372.4	372.1	371.5	370.9	370.3	369.7	370.3	370.9	371.5
137.5°	392.1	391.8	391.7	391.4	390.9	390.4	389.9	389.4	389.9	390.4	390.9
140°	412.4	412.3	412.3	412.0	411.5	411.0	410.5	410.0	410.5	411.0	411.5
142.5°	431.4	431.2	431.1	430.8	430.3	429.8	429.3	428.8	429.3	429.8	430.3
145°	449.9	449.6	449.4	449.3	449.1	448.9	448.7	448.5	448.7	448.9	449.1
147.5°	467.7	467.4	467.2	467.0	466.6	466.2	465.8	465.4	465.8	466.2	466.6
150°	484.5	484.3	484.2	484.1	483.9	483.7	483.5	483.3	483.5	483.7	483.9
152.5°	499.5	499.4	499.3	499.1	498.8	498.5	498.2	497.9	498.2	498.5	498.8
155°	513.7	513.6	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5	513.5
157.5°	526.5	526.4	526.3	526.4	526.5	526.6	526.7	526.8	526.7	526.6	526.5
160°	538.2	538.2	538.2	538.3	538.5	538.8	539.0	539.2	539.0	538.8	538.5
162.5°	548.9	548.8	548.8	549.0	549.3	549.6	549.9	550.2	549.9	549.6	549.3
165°	557.9	557.9	557.9	558.1	558.4	558.7	559.0	559.3	559.0	558.7	558.4
167.5°	565.4	565.3	565.3	565.5	565.9	566.3	566.7	567.1	566.7	566.3	565.9
170°	571.7	571.7	571.7	571.9	572.3	572.7	573.1	573.5	573.1	572.7	572.3
172.5°	576.7	576.7	576.7	576.9	577.3	577.8	578.2	578.6	578.2	577.8	577.3
175°	579.9	579.9	579.9	580.1	580.5	581.0	581.4	581.8	581.4	581.0	580.5
177.5°	581.8	581.8	581.8	582.0	582.4	582.8	583.2	583.6	583.2	582.8	582.4
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1600.6	1599.0	1602.2	1592.7	1577.0	1569.1	1547.1	1542.3	1540.8	1542.3	1543.9
5°	1556.5	1554.9	1550.2	1534.5	1515.5	1501.4	1474.6	1473.0	1463.6	1454.1	1458.8
7.5°	1514.0	1507.7	1498.2	1477.7	1452.5	1436.8	1414.7	1399.0	1386.4	1378.5	1372.2
10°	1471.4	1462.0	1452.5	1425.7	1394.2	1370.6	1343.8	1331.2	1317.0	1310.7	1304.4
12.5°	1416.3	1406.8	1389.5	1358.0	1339.1	1309.2	1282.4	1269.8	1261.9	1249.3	1241.4
15°	1372.2	1353.3	1343.8	1310.7	1271.4	1268.2	1219.4	1216.2	1200.5	1200.5	1187.9
17.5°	1321.8	1307.6	1290.3	1257.2	1228.8	1200.5	1175.3	1165.8	1151.6	1148.5	1142.2
20°	1272.9	1254.0	1247.7	1214.6	1184.7	1150.1	1123.3	1113.8	1107.5	1101.2	1105.9
22.5°	1222.5	1206.8	1191.0	1161.1	1139.0	1104.4	1088.6	1079.2	1069.7	1066.6	1068.1
25°	1173.7	1159.5	1143.7	1113.8	1090.2	1061.8	1047.6	1042.9	1038.2	1038.2	1036.6
27.5°	1126.4	1112.2	1098.1	1071.3	1047.6	1027.2	1016.1	1011.4	1006.7	1009.8	1013.0
30°	1077.6	1065.0	1052.4	1028.7	1009.8	990.9	984.6	981.5	979.9	987.8	987.8
32.5°	1033.5	1022.4	1013.0	990.9	972.0	956.3	951.5	953.1	954.7	959.4	962.6
35°	987.8	979.9	970.5	951.5	935.8	921.6	923.2	923.2	926.3	934.2	940.5
37.5°	946.8	935.8	927.9	912.2	899.6	887.0	891.7	896.4	899.6	909.0	912.2
40°	898.0	893.3	887.0	871.2	860.2	858.6	860.2	863.3	869.6	874.4	879.1
42.5°	858.6	852.3	844.4	831.8	822.4	823.9	825.5	828.7	831.8	839.7	844.4
45°	814.5	809.8	803.5	792.4	784.6	786.1	787.7	787.7	790.9	800.3	803.5
47.5°	765.6	767.2	759.3	748.3	743.6	743.6	743.6	746.7	754.6	757.8	759.3
50°	718.4	715.2	713.7	702.6	699.5	697.9	699.5	701.1	712.1	710.5	715.2
52.5°	668.0	668.0	666.4	660.1	655.4	655.4	652.2	660.1	663.2	666.4	671.1
55°	619.1	614.4	612.8	609.7	603.4	601.8	605.0	614.4	617.6	620.7	625.4
57.5°	565.6	565.6	562.4	557.7	557.7	557.7	557.7	564.0	568.7	571.9	581.3
60°	516.7	510.4	505.7	505.7	505.7	504.1	513.6	513.6	523.0	524.6	527.8
62.5°	458.4	455.3	452.1	453.7	452.1	455.3	458.4	464.7	466.3	471.0	475.8
65°	403.3	403.3	400.2	409.6	403.3	403.3	411.2	411.2	414.3	419.1	425.4
67.5°	349.7	351.3	348.2	348.2	351.3	352.9	354.5	360.8	362.3	368.6	376.5
70°	294.6	297.8	299.3	296.2	299.3	302.5	305.6	307.2	313.5	316.7	321.4
72.5°	245.8	248.9	244.2	245.8	247.3	250.5	252.1	255.2	258.4	267.8	271.0
75°	196.9	195.4	193.8	200.1	196.9	203.2	204.8	204.8	208.0	215.8	219.0
77.5°	151.2	151.2	152.8	149.7	154.4	152.8	154.4	159.1	163.8	163.8	176.4
80°	105.6	108.7	108.7	108.7	110.3	111.9	108.7	116.6	118.2	118.2	122.9
82.5°	67.7	69.3	67.7	70.9	70.9	74.0	72.5	74.0	77.2	80.3	81.9
85°	36.2	36.2	39.4	39.4	37.8	39.4	37.8	39.4	42.5	42.5	44.1
87.5°	12.6	12.6	12.6	12.6	14.2	12.6	14.2	14.2	12.6	12.6	17.3
90°	4.5	5.0	5.7	7.0	8.3	9.7	11.0	11.4	11.8	12.2	12.6
92.5°	16.2	16.5	16.8	17.4	18.0	18.6	19.2	19.5	19.8	20.1	20.4
95°	29.8	30.2	30.6	31.4	32.3	33.1	33.9	34.3	34.7	35.1	35.5
97.5°	46.4	46.7	47.0	47.6	48.3	48.9	49.5	50.0	50.5	51.0	51.5
100°	64.7	65.0	65.3	65.8	66.3	66.8	67.3	67.6	67.9	68.2	68.5
102.5°	84.1	84.3	84.7	85.4	86.1	86.8	87.5	87.8	88.1	88.4	88.7
105°	103.9	104.0	104.5	105.4	106.3	107.2	108.1	108.1	108.1	108.1	108.1
107.5°	127.3	127.3	127.5	127.9	128.4	128.8	129.2	129.5	129.8	130.1	130.4
110°	149.7	149.8	149.9	150.1	150.3	150.5	150.7	151.1	151.5	151.9	152.3

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
112.5°	172.2	172.2	172.2	172.2	172.2	172.2	172.2	172.7	173.2	173.7	174.2
115°	195.9	196.1	196.0	195.8	195.5	195.3	195.1	195.2	195.3	195.4	195.5
117.5°	218.4	218.5	218.4	218.2	218.0	217.8	217.6	217.6	217.6	217.6	217.6
120°	242.0	242.3	242.0	241.5	241.0	240.5	240.0	239.9	239.8	239.7	239.6
122.5°	263.7	263.9	263.8	263.6	263.3	263.1	262.9	262.6	262.3	262.0	261.7
125°	286.1	286.3	286.2	286.0	285.8	285.6	285.4	285.0	284.6	284.2	283.8
127.5°	308.4	308.7	308.6	308.4	308.2	308.0	307.8	307.2	306.6	306.0	305.4
130°	330.3	330.7	330.6	330.3	330.0	329.7	329.4	329.0	328.6	328.1	327.7
132.5°	351.4	351.8	351.7	351.5	351.3	351.1	350.9	350.4	349.9	349.4	348.9
135°	372.1	372.4	372.4	372.3	372.2	372.1	372.0	371.6	371.2	370.7	370.3
137.5°	391.4	391.7	391.8	392.1	392.4	392.7	393.0	392.5	392.0	391.5	391.0
140°	412.0	412.3	412.3	412.4	412.5	412.6	412.7	412.6	412.5	412.4	412.3
142.5°	430.8	431.1	431.2	431.4	431.6	431.8	432.0	431.9	431.8	431.7	431.6
145°	449.3	449.4	449.6	449.9	450.2	450.5	450.8	450.7	450.6	450.5	450.4
147.5°	467.0	467.2	467.4	467.7	468.0	468.3	468.6	468.6	468.6	468.6	468.6
150°	484.1	484.2	484.3	484.5	484.7	484.9	485.1	485.1	485.1	485.1	485.1
152.5°	499.1	499.3	499.4	499.5	499.6	499.7	499.8	500.0	500.2	500.4	500.6
155°	513.5	513.5	513.6	513.7	513.8	513.9	514.0	514.4	514.8	515.2	515.6
157.5°	526.4	526.3	526.4	526.5	526.6	526.7	526.8	527.2	527.6	528.0	528.4
160°	538.3	538.2	538.2	538.2	538.2	538.2	538.2	538.7	539.2	539.7	540.2
162.5°	549.0	548.8	548.8	548.9	549.0	549.1	549.2	549.7	550.2	550.7	551.2
165°	558.1	557.9	557.9	557.9	557.9	557.9	557.9	558.5	559.1	559.8	560.4
167.5°	565.5	565.3	565.3	565.4	565.5	565.6	565.7	566.3	566.9	567.6	568.2
170°	571.9	571.7	571.7	571.7	571.7	571.7	571.7	572.4	573.1	573.8	574.5
172.5°	576.9	576.7	576.7	576.7	576.7	576.7	576.7	577.3	577.9	578.6	579.2
175°	580.1	579.9	579.9	579.9	579.9	579.9	579.9	580.5	581.1	581.8	582.4
177.5°	582.0	581.8	581.8	581.8	581.8	581.8	581.8	582.4	583.0	583.6	584.2
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1542.3	1543.9	1537.6	1532.9	1545.5	1537.6	1537.6	1539.2	1536.0	1540.8	1539.2
5°	1455.7	1457.3	1446.2	1449.4	1443.1	1441.5	1439.9	1449.4	1447.8	1446.2	1449.4
7.5°	1370.6	1370.6	1365.9	1362.7	1362.7	1358.0	1364.3	1362.7	1365.9	1365.9	1370.6
10°	1299.7	1302.9	1295.0	1287.1	1285.5	1287.1	1287.1	1288.7	1290.3	1301.3	1299.7
12.5°	1241.4	1236.7	1235.1	1230.4	1222.5	1219.4	1216.2	1233.5	1228.8	1228.8	1228.8
15°	1176.8	1187.9	1186.3	1172.1	1169.0	1175.3	1172.1	1172.1	1187.9	1186.3	1184.7
17.5°	1142.2	1139.0	1135.9	1128.0	1129.6	1128.0	1129.6	1129.6	1139.0	1139.0	1139.0
20°	1102.8	1096.5	1096.5	1093.3	1093.3	1088.6	1094.9	1096.5	1102.8	1102.8	1104.4
22.5°	1068.1	1063.4	1063.4	1061.8	1065.0	1058.7	1065.0	1066.6	1066.6	1071.3	1071.3
25°	1038.2	1035.0	1035.0	1038.2	1038.2	1038.2	1038.2	1044.5	1039.8	1041.3	1039.8
27.5°	1011.4	1013.0	1014.6	1016.1	1014.6	1016.1	1017.7	1020.9	1022.4	1020.9	1017.7
30°	986.2	990.9	992.5	992.5	995.7	997.2	998.8	998.8	1000.4	995.7	998.8
32.5°	967.3	967.3	970.5	972.0	975.2	976.8	976.8	979.9	978.3	973.6	975.2
35°	940.5	940.5	946.8	950.0	954.7	953.1	954.7	954.7	956.3	953.1	948.4
37.5°	913.7	916.9	916.9	923.2	924.8	926.3	924.8	927.9	926.3	923.2	921.6
40°	882.2	880.7	882.2	887.0	888.5	888.5	888.5	891.7	891.7	891.7	890.1
42.5°	842.8	847.6	846.0	850.7	849.1	849.1	852.3	855.4	857.0	852.3	853.9
45°	805.0	805.0	808.2	808.2	809.8	809.8	816.1	812.9	816.1	812.9	814.5
47.5°	764.1	765.6	765.6	767.2	770.4	773.5	770.4	772.0	772.0	773.5	770.4
50°	718.4	718.4	721.5	726.3	732.6	729.4	727.8	734.1	729.4	729.4	726.3
52.5°	671.1	675.9	677.4	682.2	686.9	688.5	690.0	686.9	688.5	683.7	685.3
55°	625.4	627.0	633.3	638.0	642.8	642.8	641.2	642.8	644.3	638.0	638.0
57.5°	579.8	584.5	590.8	590.8	597.1	597.1	595.5	595.5	597.1	592.4	590.8
60°	530.9	535.6	543.5	543.5	553.0	554.5	551.4	548.2	548.2	543.5	545.1
62.5°	478.9	483.7	488.4	496.3	502.6	499.4	505.7	499.4	501.0	491.5	491.5
65°	433.2	434.8	442.7	450.6	450.6	453.7	450.6	452.1	447.4	447.4	441.1
67.5°	379.7	379.7	387.6	395.4	403.3	403.3	403.3	398.6	398.6	393.9	393.9
70°	332.4	330.8	338.7	343.4	348.2	349.7	346.6	345.0	341.9	337.1	335.6
72.5°	274.1	277.3	285.1	288.3	296.2	294.6	302.5	293.0	293.0	285.1	283.6
75°	222.1	225.3	233.2	237.9	242.6	242.6	247.3	242.6	236.3	233.2	231.6
77.5°	176.4	174.9	181.2	189.0	190.6	189.0	192.2	190.6	184.3	184.3	181.2
80°	126.0	130.8	137.1	135.5	141.8	140.2	140.2	137.1	137.1	132.3	135.5
82.5°	83.5	88.2	89.8	88.2	89.8	92.9	94.5	92.9	92.9	89.8	91.4
85°	44.1	44.1	47.3	48.8	47.3	47.3	48.8	53.6	50.4	47.3	50.4
87.5°	14.2	12.6	12.6	14.2	12.6	12.6	14.2	14.2	15.8	15.8	15.8
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°	20.6	20.5	20.3	20.1	19.9	19.7	19.9	20.1	20.3	20.5	20.6
95°	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7	35.7
97.5°	51.8	51.7	51.6	51.5	51.4	51.3	51.4	51.5	51.6	51.7	51.8
100°	68.7	68.8	69.0	69.2	69.4	69.6	69.4	69.2	69.0	68.8	68.7
102.5°	88.9	88.8	88.7	88.6	88.5	88.4	88.5	88.6	88.7	88.8	88.9
105°	108.1	108.2	108.4	108.6	108.8	109.0	108.8	108.6	108.4	108.2	108.1
107.5°	130.6	130.5	130.4	130.3	130.2	130.1	130.2	130.3	130.4	130.5	130.6
110°	152.5	152.4	152.2	152.0	151.8	151.6	151.8	152.0	152.2	152.4	152.5

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
112.5°	174.5	174.5	174.5	174.5	174.5	174.5	174.5	174.5	174.5	174.5	174.5
115°	195.6	195.5	195.4	195.3	195.2	195.1	195.2	195.3	195.4	195.5	195.6
117.5°	217.6	217.4	217.1	216.8	216.5	216.2	216.5	216.8	217.1	217.4	217.6
120°	239.6	239.5	239.3	239.1	238.9	238.7	238.9	239.1	239.3	239.5	239.6
122.5°	261.6	261.4	261.1	260.8	260.5	260.2	260.5	260.8	261.1	261.4	261.6
125°	283.6	283.4	283.0	282.5	282.1	281.7	282.1	282.5	283.0	283.4	283.6
127.5°	305.1	304.9	304.5	304.0	303.6	303.2	303.6	304.0	304.5	304.9	305.1
130°	327.5	327.1	326.4	325.7	325.0	324.3	325.0	325.7	326.4	327.1	327.5
132.5°	348.6	348.3	347.8	347.3	346.8	346.3	346.8	347.3	347.8	348.3	348.6
135°	370.1	370.0	369.8	369.6	369.4	369.2	369.4	369.6	369.8	370.0	370.1
137.5°	390.7	390.6	390.3	390.0	389.7	389.4	389.7	390.0	390.3	390.6	390.7
140°	412.3	411.9	411.2	410.5	409.8	409.1	409.8	410.5	411.2	411.9	412.3
142.5°	431.5	431.2	430.7	430.2	429.7	429.2	429.7	430.2	430.7	431.2	431.5
145°	450.3	450.1	449.7	449.3	448.9	448.5	448.9	449.3	449.7	450.1	450.3
147.5°	468.6	468.3	467.7	467.1	466.5	465.9	466.5	467.1	467.7	468.3	468.6
150°	485.1	484.8	484.2	483.6	483.0	482.4	483.0	483.6	484.2	484.8	485.1
152.5°	500.7	500.4	499.9	499.4	498.9	498.4	498.9	499.4	499.9	500.4	500.7
155°	515.8	515.4	514.7	514.0	513.3	512.6	513.3	514.0	514.7	515.4	515.8
157.5°	528.6	528.3	527.7	527.1	526.5	525.9	526.5	527.1	527.7	528.3	528.6
160°	540.5	540.3	539.9	539.5	539.1	538.7	539.1	539.5	539.9	540.3	540.5
162.5°	551.5	551.1	550.4	549.7	549.0	548.3	549.0	549.7	550.4	551.1	551.5
165°	560.7	560.3	559.6	558.9	558.2	557.5	558.2	558.9	559.6	560.3	560.7
167.5°	568.5	568.2	567.6	566.9	566.3	565.7	566.3	566.9	567.6	568.2	568.5
170°	574.9	574.5	573.8	573.1	572.4	571.7	572.4	573.1	573.8	574.5	574.9
172.5°	579.5	579.1	578.4	577.7	577.0	576.3	577.0	577.7	578.4	579.1	579.5
175°	582.7	582.3	581.6	580.9	580.2	579.5	580.2	580.9	581.6	582.3	582.7
177.5°	584.5	584.1	583.4	582.7	582.0	581.3	582.0	582.7	583.4	584.1	584.5
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8	1625.8
2.5°	1543.9	1547.1	1548.6	1542.3	1537.6	1545.5	1556.5	1564.4	1570.7	1578.6	1583.3
5°	1452.5	1463.6	1463.6	1466.7	1471.4	1479.3	1499.8	1514.0	1526.6	1536.0	1543.9
7.5°	1375.3	1383.2	1387.9	1395.8	1403.7	1414.7	1438.4	1458.8	1477.7	1488.8	1501.4
10°	1306.0	1312.3	1320.2	1324.9	1339.1	1354.9	1384.8	1402.1	1424.2	1441.5	1457.3
12.5°	1239.8	1261.9	1266.6	1265.1	1277.7	1295.0	1324.9	1351.7	1375.3	1392.7	1410.0
15°	1192.6	1200.5	1209.9	1208.3	1235.1	1239.8	1265.1	1296.6	1328.1	1339.1	1354.9
17.5°	1140.6	1153.2	1162.7	1167.4	1175.3	1192.6	1216.2	1239.8	1280.8	1282.4	1323.3
20°	1099.6	1112.2	1118.5	1124.8	1129.6	1150.1	1170.5	1197.3	1230.4	1247.7	1269.8
22.5°	1072.9	1079.2	1083.9	1088.6	1094.9	1105.9	1131.1	1161.1	1183.1	1202.0	1216.2
25°	1041.3	1047.6	1054.0	1057.1	1061.8	1068.1	1087.0	1110.7	1142.2	1154.8	1169.0
27.5°	1019.3	1019.3	1022.4	1022.4	1028.7	1035.0	1049.2	1071.3	1096.5	1112.2	1131.1
30°	995.7	994.1	995.7	994.1	992.5	1002.0	1014.6	1033.5	1050.8	1069.7	1082.3
32.5°	972.0	970.5	970.5	972.0	965.7	970.5	976.8	994.1	1013.0	1022.4	1036.6
35°	946.8	943.7	943.7	943.7	940.5	937.4	943.7	959.4	972.0	984.6	995.7
37.5°	921.6	916.9	916.9	913.7	910.6	905.9	905.9	918.5	935.8	940.5	954.7
40°	887.0	887.0	883.8	882.2	879.1	875.9	871.2	882.2	898.0	902.7	913.7
42.5°	852.3	847.6	846.0	846.0	846.0	841.3	838.1	846.0	855.4	863.3	869.6
45°	812.9	809.8	811.3	809.8	806.6	805.0	803.5	806.6	817.6	820.8	828.7
47.5°	770.4	768.8	768.8	767.2	765.6	767.2	760.9	768.8	772.0	775.1	781.4
50°	726.3	724.7	723.1	721.5	721.5	723.1	721.5	721.5	727.8	731.0	737.3
52.5°	682.2	677.4	677.4	675.9	675.9	672.7	675.9	677.4	680.6	683.7	686.9
55°	634.9	634.9	630.2	630.2	627.0	627.0	628.6	627.0	633.3	636.5	636.5
57.5°	589.2	582.9	584.5	581.3	578.2	576.6	576.6	579.8	582.9	582.9	586.1
60°	540.4	534.1	532.5	526.2	529.3	524.6	526.2	526.2	532.5	529.3	532.5
62.5°	491.5	483.7	478.9	475.8	475.8	477.3	474.2	472.6	475.8	478.9	485.2
65°	439.5	434.8	430.1	425.4	425.4	423.8	426.9	422.2	420.6	422.2	425.4
67.5°	386.0	381.2	376.5	371.8	373.4	368.6	365.5	370.2	367.1	368.6	371.8
70°	334.0	330.8	321.4	318.2	316.7	318.2	316.7	313.5	318.2	316.7	318.2
72.5°	282.0	278.8	274.1	266.2	266.2	264.7	263.1	263.1	261.5	261.5	261.5
75°	231.6	225.3	220.6	219.0	215.8	214.3	212.7	209.5	211.1	212.7	209.5
77.5°	179.6	171.7	170.1	170.1	165.4	165.4	167.0	165.4	163.8	163.8	163.8
80°	132.3	126.0	126.0	122.9	119.7	119.7	119.7	119.7	118.2	116.6	118.2
82.5°	85.1	83.5	81.9	81.9	85.1	78.8	81.9	80.3	78.8	78.8	77.2
85°	47.3	48.8	47.3	48.8	45.7	47.3	47.3	47.3	45.7	47.3	44.1
87.5°	17.3	17.3	17.3	18.9	18.9	18.9	18.9	18.9	20.5	18.9	18.9
90°	12.6	12.2	11.8	11.4	11.0	9.7	8.3	7.0	5.7	5.0	4.5
92.5°	20.4	20.1	19.8	19.5	19.2	18.6	18.0	17.4	16.8	16.5	16.2
95°	35.5	35.1	34.7	34.3	33.9	33.1	32.3	31.4	30.6	30.2	29.8
97.5°	51.5	51.0	50.5	50.0	49.5	48.9	48.3	47.6	47.0	46.7	46.4
100°	68.5	68.2	67.9	67.6	67.3	66.8	66.3	65.8	65.3	65.0	64.7
102.5°	88.7	88.4	88.1	87.8	87.5	86.8	86.1	85.4	84.7	84.3	84.1
105°	108.1	108.1	108.1	108.1	108.1	107.2	106.3	105.4	104.5	104.0	103.9
107.5°	130.4	130.1	129.8	129.5	129.2	128.8	128.4	127.9	127.5	127.3	127.3
110°	152.3	151.9	151.5	151.1	150.7	150.5	150.3	150.1	149.9	149.8	149.7

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
112.5°	174.2	173.7	173.2	172.7	172.2	172.2	172.2	172.2	172.2	172.2	172.2
115°	195.5	195.4	195.3	195.2	195.1	195.3	195.5	195.8	196.0	196.1	195.9
117.5°	217.6	217.6	217.6	217.6	217.6	217.8	218.0	218.2	218.4	218.5	218.4
120°	239.6	239.7	239.8	239.9	240.0	240.5	241.0	241.5	242.0	242.3	242.0
122.5°	261.7	262.0	262.3	262.6	262.9	263.1	263.3	263.6	263.8	263.9	263.7
125°	283.8	284.2	284.6	285.0	285.4	285.6	285.8	286.0	286.2	286.3	286.1
127.5°	305.4	306.0	306.6	307.2	307.8	308.0	308.2	308.4	308.6	308.7	308.4
130°	327.7	328.1	328.6	329.0	329.4	329.7	330.0	330.3	330.6	330.7	330.3
132.5°	348.9	349.4	349.9	350.4	350.9	351.1	351.3	351.5	351.7	351.8	351.4
135°	370.3	370.7	371.2	371.6	372.0	372.1	372.2	372.3	372.4	372.4	372.1
137.5°	391.0	391.5	392.0	392.5	393.0	392.7	392.4	392.1	391.8	391.7	391.4
140°	412.3	412.4	412.5	412.6	412.7	412.6	412.5	412.4	412.3	412.3	412.0
142.5°	431.6	431.7	431.8	431.9	432.0	431.8	431.6	431.4	431.2	431.1	430.8
145°	450.4	450.5	450.6	450.7	450.8	450.5	450.2	449.9	449.6	449.4	449.3
147.5°	468.6	468.6	468.6	468.6	468.6	468.3	468.0	467.7	467.4	467.2	467.0
150°	485.1	485.1	485.1	485.1	485.1	484.9	484.7	484.5	484.3	484.2	484.1
152.5°	500.6	500.4	500.2	500.0	499.8	499.7	499.6	499.5	499.4	499.3	499.1
155°	515.6	515.2	514.8	514.4	514.0	513.9	513.8	513.7	513.6	513.5	513.5
157.5°	528.4	528.0	527.6	527.2	526.8	526.7	526.6	526.5	526.4	526.3	526.4
160°	540.2	539.7	539.2	538.7	538.2	538.2	538.2	538.2	538.2	538.2	538.3
162.5°	551.2	550.7	550.2	549.7	549.2	549.1	549.0	548.9	548.8	548.8	549.0
165°	560.4	559.8	559.1	558.5	557.9	557.9	557.9	557.9	557.9	557.9	558.1
167.5°	568.2	567.6	566.9	566.3	565.7	565.6	565.5	565.4	565.3	565.3	565.5
170°	574.5	573.8	573.1	572.4	571.7	571.7	571.7	571.7	571.7	571.7	571.9
172.5°	579.2	578.6	577.9	577.3	576.7	576.7	576.7	576.7	576.7	576.7	576.9
175°	582.4	581.8	581.1	580.5	579.9	579.9	579.9	579.9	579.9	579.9	580.1
177.5°	584.2	583.6	583.0	582.4	581.8	581.8	581.8	581.8	581.8	581.8	582.0
180°	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1	583.1

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1625.8	1625.8	1625.8	1625.8
2.5°	1591.2	1595.9	1611.6	1630.6
5°	1559.7	1572.3	1594.3	1624.2
7.5°	1525.0	1543.9	1575.4	1613.2
10°	1485.6	1512.4	1551.8	1599.0
12.5°	1443.1	1477.7	1528.1	1577.0
15°	1416.3	1451.0	1496.6	1550.2
17.5°	1364.3	1405.3	1452.5	1528.1
20°	1310.7	1356.4	1417.9	1493.5
22.5°	1269.8	1318.6	1376.9	1457.3
25°	1220.9	1271.4	1334.4	1417.9
27.5°	1169.0	1219.4	1290.3	1378.5
30°	1129.6	1178.4	1246.2	1340.7
32.5°	1082.3	1129.6	1200.5	1299.7
35°	1028.7	1082.3	1150.1	1250.9
37.5°	987.8	1036.6	1107.5	1203.6
40°	943.7	986.2	1055.5	1150.1
42.5°	896.4	943.7	1003.5	1098.1
45°	852.3	887.0	948.4	1038.2
47.5°	805.0	844.4	891.7	961.0
50°	754.6	787.7	839.7	887.0
52.5°	705.8	732.6	776.7	812.9
55°	653.8	680.6	713.7	735.7
57.5°	605.0	623.9	645.9	660.1
60°	545.1	564.0	578.2	592.4
62.5°	491.5	505.7	513.6	521.5
65°	436.4	444.3	449.0	455.3
67.5°	376.5	384.4	386.0	395.4
70°	321.4	323.0	326.1	330.8
72.5°	269.4	272.5	271.0	274.1
75°	215.8	219.0	215.8	219.0
77.5°	163.8	167.0	167.0	171.7
80°	118.2	119.7	121.3	121.3
82.5°	77.2	81.9	78.8	80.3
85°	44.1	45.7	45.7	47.3
87.5°	20.5	22.1	20.5	23.6
90°	3.5	2.5	1.5	0.5
92.5°	15.6	14.9	14.3	13.7
95°	29.1	28.4	27.7	27.0
97.5°	45.9	45.4	44.9	44.4
100°	64.1	63.5	62.9	62.3
102.5°	83.8	83.5	83.2	82.9
105°	103.7	103.5	103.3	103.1
107.5°	127.2	127.1	127.0	126.9
110°	149.5	149.3	149.1	148.9

TEST NUMBER: P1031499

CATALOG NUMBER: S123DIW-B1165D460UB30-4F0-XX-W2A-A1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
112.5°	172.1	172.0	171.9	171.8
115°	195.6	195.3	195.0	194.7
117.5°	218.3	218.2	218.1	218.0
120°	241.4	240.8	240.2	239.6
122.5°	263.3	262.8	262.4	262.0
125°	285.8	285.5	285.2	284.9
127.5°	307.8	307.2	306.6	306.0
130°	329.5	328.7	327.9	327.1
132.5°	350.6	349.7	348.9	348.1
135°	371.5	370.9	370.3	369.7
137.5°	390.9	390.4	389.9	389.4
140°	411.5	411.0	410.5	410.0
142.5°	430.3	429.8	429.3	428.8
145°	449.1	448.9	448.7	448.5
147.5°	466.6	466.2	465.8	465.4
150°	483.9	483.7	483.5	483.3
152.5°	498.8	498.5	498.2	497.9
155°	513.5	513.5	513.5	513.5
157.5°	526.5	526.6	526.7	526.8
160°	538.5	538.8	539.0	539.2
162.5°	549.3	549.6	549.9	550.2
165°	558.4	558.7	559.0	559.3
167.5°	565.9	566.3	566.7	567.1
170°	572.3	572.7	573.1	573.5
172.5°	577.3	577.8	578.2	578.6
175°	580.5	581.0	581.4	581.8
177.5°	582.4	582.8	583.2	583.6
180°	583.1	583.1	583.1	583.1

(END OF REPORT)