

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: NEO-RAY

Report Number: P332399-935

Luminaire Tested: **S123RDIW-S340D1030U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332399-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDIW-S340D1030U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4246.6 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

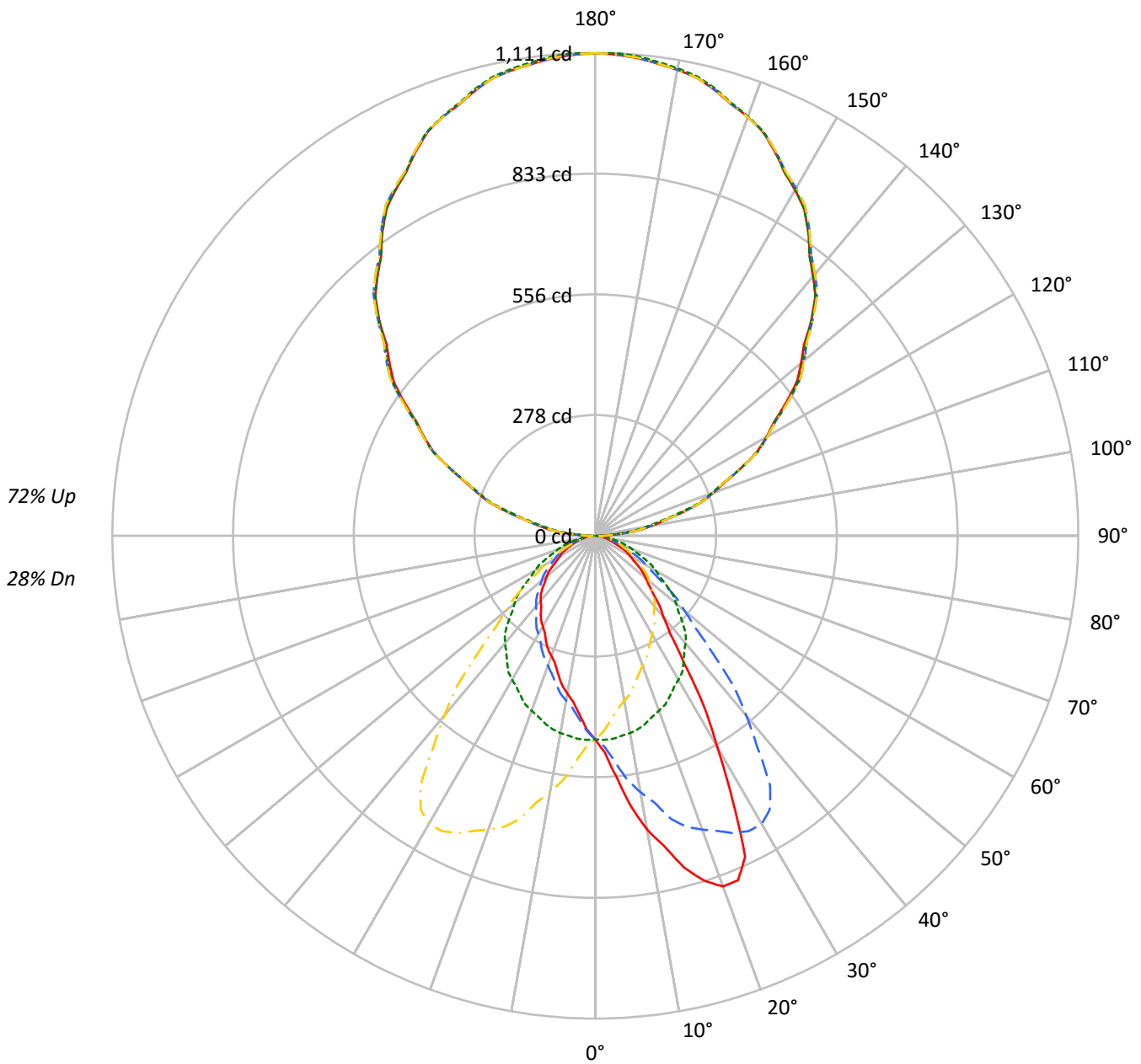
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - . - . 135°-315°



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CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	59	46	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	78	69	62	56	69	62	56	51	49	45	41	37	34	32	25	24	23	18
4	71	61	54	48	63	55	49	44	43	39	35	33	30	27	23	21	20	15
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	21	19	17	14
6	60	49	41	36	54	44	37	33	35	30	27	27	23	21	19	17	15	12
7	55	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	26	22	19	20	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5044	5044	5044	5044
5°	6013	5065	4460	5065
10°	7507	5037	4030	5037
15°	8811	4985	3675	4985
20°	9835	4907	3373	4907
25°	9678	4827	3188	4827
30°	6955	4753	2997	4753
35°	4644	4654	2872	4654
40°	3421	4539	2746	4539
45°	2871	4332	2620	4332
50°	2534	4064	2445	4064
55°	2222	3757	2205	3757
60°	1978	3462	2019	3462
65°	1737	3148	1880	3148
70°	1363	2867	1718	2867
75°	1198	2504	1568	2504
80°	1048	2126	1543	2126
85°	840	1717	1643	1717



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.1
10°-20°	144.0	3.4
20°-30°	226.2	5.3
30°-40°	236.0	5.6
40°-50°	201.9	4.8
50°-60°	153.9	3.6
60°-70°	98.7	2.3
70°-80°	47.5	1.1
80°-90°	15.8	0.4
90°-100°	72.4	1.7
100°-110°	216.5	5.1
110°-120°	368.3	8.7
120°-130°	484.4	11.4
130°-140°	544.4	12.8
140°-150°	535.2	12.6
150°-160°	450.5	10.6
160°-170°	299.9	7.1
170°-180°	105.0	2.5
0°-30°	416.2	9.8
0°-40°	652.2	15.4
0°-60°	1008.0	23.7
0°-90°	1170.0	27.6
90°-120°	657.1	15.5
90°-150°	2221.1	52.3
90°-180°	3077.0	72.5
0°-180°	4246.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	469	469	469	469	469	
5°	556	469	413	469	556	57
15°	791	447	330	447	791	224
25°	815	406	268	406	815	350
35°	353	354	219	354	353	232
45°	189	285	172	285	189	148
55°	118	200	118	200	118	107
65°	68	124	74	124	68	67
75°	29	60	38	60	29	31
85°	7	14	13	14	7	9
90°	26	1	26	1	26	13
95°	68	52	68	52	68	70
105°	208	196	208	196	208	220
115°	372	371	372	371	372	368
125°	536	543	536	543	536	480
135°	703	704	703	704	703	541
145°	854	854	854	854	854	533
155°	976	978	976	978	976	449
165°	1062	1065	1062	1065	1062	299
175°	1104	1108	1104	1108	1104	105
180°	1110	1110	1110	1110	1110	



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	499.1	499.7	497.7	497.3	494.9	494.3	494.3	490.9	488.8	486.1	484.5
5°	556.5	559.6	558.0	554.5	548.5	547.0	543.2	537.2	530.4	521.9	518.0
7.5°	628.1	632.5	630.8	625.3	618.9	613.8	603.0	593.1	579.1	566.8	556.3
10°	686.8	682.3	678.6	673.2	667.4	658.0	646.7	631.3	613.5	599.3	583.8
12.5°	730.8	730.0	725.5	719.9	711.7	702.7	688.9	670.1	649.4	629.0	611.1
15°	790.7	791.9	788.9	783.2	771.5	755.6	734.8	726.9	697.2	675.2	653.2
17.5°	832.2	832.0	831.6	823.5	811.7	800.4	781.0	760.4	733.6	702.5	672.8
20°	858.6	856.5	857.0	847.9	839.1	826.0	807.2	777.3	755.3	719.4	688.6
22.5°	857.9	857.5	859.0	855.9	849.5	839.6	824.7	799.4	771.3	735.0	700.5
25°	814.9	813.2	822.6	825.3	835.5	837.3	832.8	819.1	792.4	755.0	712.3
27.5°	681.9	681.1	698.5	720.5	748.2	769.8	790.7	800.7	792.4	765.6	722.8
30°	559.6	578.5	587.4	619.1	654.4	696.5	733.4	768.4	777.1	765.4	730.4
32.5°	464.7	481.1	488.5	515.7	548.6	598.0	653.3	703.0	738.1	747.0	725.9
35°	353.4	353.6	370.5	382.5	413.0	463.7	517.5	584.1	650.3	700.5	705.7
37.5°	282.1	283.0	293.3	305.2	328.1	354.9	402.3	457.6	534.1	611.1	656.3
40°	243.5	245.3	253.0	264.8	281.2	301.5	338.4	390.5	454.3	540.0	610.0
42.5°	218.8	221.7	225.7	234.8	245.0	264.0	293.8	334.1	392.1	473.1	553.9
45°	188.6	190.2	193.2	197.4	206.6	219.8	239.9	267.0	315.1	380.3	461.2
47.5°	166.3	165.5	168.7	172.0	178.2	187.3	200.7	222.7	257.1	309.4	378.0
50°	151.3	151.0	153.3	155.8	161.7	168.3	179.3	196.0	223.3	266.6	329.4
52.5°	137.2	137.8	139.5	142.7	146.9	152.2	162.1	174.2	197.6	235.0	287.3
55°	118.4	119.0	121.1	123.0	126.0	131.4	137.6	147.7	163.7	189.8	232.9
57.5°	102.5	102.2	104.3	104.8	108.1	112.5	117.4	125.2	136.8	156.2	185.2
60°	91.9	91.3	93.1	94.5	96.3	99.9	103.9	111.5	120.8	135.0	159.9
62.5°	82.2	82.0	83.3	84.7	86.2	89.5	92.8	98.7	106.0	118.0	137.8
65°	68.2	68.8	69.4	70.0	70.8	72.8	76.0	80.1	85.1	93.5	107.7
67.5°	53.6	54.2	54.4	55.6	57.3	58.6	60.6	64.1	67.7	74.7	82.8
70°	43.3	43.1	43.3	43.9	46.1	48.3	51.0	53.6	55.8	60.8	67.6
72.5°	37.2	36.9	37.4	37.5	38.6	39.2	40.8	43.3	46.1	49.5	54.4
75°	28.8	28.8	28.8	28.8	29.7	30.0	30.7	31.3	32.3	33.9	37.5
77.5°	21.4	21.4	21.7	21.9	22.0	22.3	22.6	23.2	23.6	24.5	26.0
80°	16.9	17.0	16.9	17.0	17.0	17.5	17.7	18.3	18.4	19.5	20.1
82.5°	12.7	12.6	12.7	12.9	12.9	13.3	13.3	13.8	13.8	14.3	14.9
85°	6.8	6.5	6.8	6.6	7.1	6.6	6.8	7.2	7.2	7.4	8.3
87.5°	6.8	7.1	6.7	6.8	6.7	6.7	6.5	6.5	6.6	6.3	5.9
90°	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5	21.7	20.9	18.4
92.5°	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7	34.1	33.5	32.0
95°	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1	65.3	64.6	63.0
97.5°	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8	101.9	101.0	99.9
100°	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4	128.8	128.2	127.3
102.5°	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1	159.5	158.9	157.6
105°	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9	205.9	205.9	204.1
107.5°	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5	254.8	254.2	253.5
110°	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5	287.7	287.0	286.6



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7	320.7	319.8	319.7
115°	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0	371.8	371.6	372.0
117.5°	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8	422.8	422.9	423.4
120°	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7	456.8	457.1	458.1
122.5°	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9	491.5	492.0	492.5
125°	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9	542.7	543.5	543.8
127.5°	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2	593.3	594.3	594.8
130°	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6	626.4	627.2	627.8
132.5°	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1	659.0	660.0	660.4
135°	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7	707.5	708.3	708.5
137.5°	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3	755.1	756.0	755.4
140°	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6	785.7	785.9	785.7
142.5°	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9	815.0	815.3	814.9
145°	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0	858.2	858.3	857.7
147.5°	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6	898.6	898.6	898.1
150°	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8	923.8	923.8	923.3
152.5°	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7	946.4	946.1	945.9
155°	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2	979.5	978.7	978.5
157.5°	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1	1008.3	1007.5	1007.4
160°	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9	1025.9	1024.9	1024.9
162.5°	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6	1042.7	1041.7	1041.6
165°	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8	1063.6	1062.5	1062.5
167.5°	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5	1079.4
170°	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6	1088.6
172.5°	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7	1097.5	1096.3	1096.3
175°	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6	1105.5	1104.3	1104.3
177.5°	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2	1109.2	1108.4	1108.4
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	483.8	483.4	481.1	478.5	475.2	472.9	471.1	470.2	467.3	463.7	461.4
5°	513.8	507.7	501.3	493.4	486.2	478.8	474.2	468.8	462.2	454.8	449.5
7.5°	545.7	533.9	521.2	508.1	495.2	483.5	473.2	464.4	453.9	443.2	435.8
10°	570.3	553.0	535.2	516.9	500.3	484.7	472.6	460.8	448.2	435.9	426.6
12.5°	592.6	569.9	549.3	526.8	505.6	486.9	469.6	455.6	440.4	427.4	416.9
15°	620.9	597.5	572.7	538.6	510.3	486.6	465.5	447.3	428.9	412.8	402.6
17.5°	647.2	612.3	578.8	550.4	513.6	484.1	458.3	436.5	416.2	399.2	386.6
20°	658.1	624.2	588.0	551.6	515.6	482.4	452.5	428.4	407.4	388.1	376.5
22.5°	664.7	626.4	588.1	549.1	510.7	476.3	446.8	420.3	397.4	379.2	364.8
25°	672.4	626.6	584.5	546.0	506.9	469.6	434.5	406.4	381.8	362.3	347.1
27.5°	677.4	623.6	573.9	531.1	491.4	454.3	422.1	392.3	367.2	346.6	330.3
30°	678.4	621.2	565.7	519.4	479.1	444.9	410.8	382.4	355.9	334.0	318.7
32.5°	679.7	615.3	554.6	505.4	464.1	430.3	399.4	372.2	345.1	323.6	308.0
35°	674.4	612.0	537.8	481.2	439.9	407.2	379.4	354.2	327.6	306.7	290.8
37.5°	651.6	599.0	520.4	454.0	410.8	380.6	357.8	336.0	311.5	289.0	274.1
40°	628.7	586.2	506.9	437.5	392.4	361.3	340.8	323.0	299.3	278.2	262.2
42.5°	594.5	568.6	494.0	420.2	371.5	341.6	324.3	307.5	286.8	265.4	250.3
45°	531.8	535.2	467.8	392.5	342.6	312.5	296.3	284.6	266.2	248.6	233.1
47.5°	453.1	485.0	437.0	363.2	312.2	284.0	269.8	259.6	247.1	229.8	215.7
50°	401.8	447.3	412.2	343.5	293.1	265.0	251.0	242.7	231.9	218.3	204.8
52.5°	354.5	403.4	382.4	321.4	272.3	246.7	233.0	226.2	217.6	204.7	192.6
55°	289.0	338.6	333.8	288.3	241.3	218.3	207.8	200.2	194.4	184.8	175.1
57.5°	233.8	280.8	283.3	251.3	214.0	191.1	182.2	176.4	172.6	165.4	156.4
60°	199.0	242.1	250.6	226.4	194.4	174.4	165.5	160.8	157.9	152.1	145.3
62.5°	170.1	206.8	216.4	199.1	175.6	156.8	149.9	145.5	143.4	138.4	132.4
65°	130.2	160.7	169.9	160.3	148.0	133.0	127.3	123.6	121.7	119.0	114.5
67.5°	97.9	120.1	130.3	123.5	119.0	109.5	106.0	103.9	102.3	100.4	96.7
70°	78.6	95.1	105.5	103.8	100.1	95.1	92.5	91.1	89.5	87.8	84.6
72.5°	63.2	74.6	84.3	85.2	82.3	81.3	79.0	78.4	77.4	75.5	73.7
75°	41.9	49.8	56.6	59.2	60.4	61.4	60.4	60.2	60.0	58.4	57.3
77.5°	27.5	31.7	36.0	40.5	42.4	43.7	44.0	44.8	44.2	43.4	42.9
80°	21.1	22.0	25.1	28.8	31.9	33.1	33.9	34.3	34.1	33.9	33.1
82.5°	15.3	16.1	17.6	20.2	22.7	24.7	25.2	25.1	25.6	25.7	25.1
85°	8.3	8.4	8.9	9.2	10.6	12.8	13.4	13.9	14.2	14.2	13.0
87.5°	5.8	5.1	4.9	4.5	4.6	4.3	4.9	5.3	5.9	5.6	6.0
90°	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9	2.8	4.7	6.7
92.5°	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1	22.4	23.8	25.1
95°	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5	52.8	54.2	55.5
97.5°	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4	92.4	93.4	94.5
100°	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6	119.8	121.0	122.1
102.5°	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1	150.8	151.4	152.1
105°	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3	196.7	197.1	197.4
107.5°	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0	250.2	250.5	250.7
110°	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5	283.9	284.3	284.6



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4	318.7	318.8	319.1
115°	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7	371.3	371.9	372.5
117.5°	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4	423.8	424.2	424.6
120°	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2	457.4	458.6	459.7
122.5°	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4	491.3	492.1	492.9
125°	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6	543.1	543.7	544.3
127.5°	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7	591.9	593.2	594.4
130°	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8	624.4	625.9	627.5
132.5°	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9	656.4	658.0	659.6
135°	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0	705.1	706.3	707.4
137.5°	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3	750.3	751.2	752.2
140°	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7	781.7	782.6	783.6
142.5°	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3	810.3	811.2	812.2
145°	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9	854.4	854.7	855.1
147.5°	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0	893.7	894.4	895.2
150°	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2	920.7	921.0	921.4
152.5°	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6	943.1	943.7	944.3
155°	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8	977.8	977.8	977.8
157.5°	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9	1007.6	1007.4	1007.1
160°	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7	1026.3	1025.9	1025.5
162.5°	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4	1042.9	1042.3	1041.8
165°	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1	1064.5	1063.9	1063.3
167.5°	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4	1081.6	1080.8	1080.0
170°	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1	1091.3	1090.5	1089.8
172.5°	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8	1099.0	1098.2	1097.4
175°	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8	1107.1	1106.3	1105.5
177.5°	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1	1110.5	1109.9	1109.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	460.5	458.5	457.0	453.8	451.8	449.5	447.3	448.7	448.5	448.4	448.4
5°	445.1	440.5	436.3	430.8	427.5	423.3	420.1	419.7	420.4	417.7	416.0
7.5°	429.8	423.5	417.5	411.6	405.2	400.1	397.0	395.5	393.5	391.8	389.9
10°	419.0	411.6	405.8	398.4	391.6	385.6	381.8	379.1	377.7	376.3	373.7
12.5°	407.9	400.7	393.3	384.9	378.4	371.4	368.6	365.7	363.0	361.4	357.8
15°	391.8	382.4	374.5	365.7	358.4	351.6	347.7	341.8	341.0	339.0	335.4
17.5°	375.5	365.3	354.5	347.9	339.8	332.7	326.6	324.7	318.9	316.8	313.6
20°	362.7	353.3	345.0	336.4	324.6	318.0	313.1	310.6	305.9	303.1	301.1
22.5°	351.6	342.0	332.5	322.4	312.7	305.2	301.7	297.6	295.2	291.2	289.0
25°	335.8	325.4	313.9	303.1	296.1	290.5	284.8	281.2	277.6	275.8	271.8
27.5°	317.5	306.5	295.8	287.6	279.0	273.5	268.4	265.2	260.8	257.8	255.5
30°	307.3	294.5	285.2	277.8	266.8	261.6	257.8	253.7	250.6	247.4	245.1
32.5°	295.6	283.9	275.2	266.0	257.5	251.8	246.8	243.3	240.6	237.5	235.3
35°	277.2	267.4	258.4	249.2	242.9	237.1	231.3	228.3	225.7	222.8	220.8
37.5°	260.6	251.4	242.8	234.1	226.4	221.6	217.0	214.6	211.1	209.2	207.2
40°	250.4	241.3	232.1	223.7	215.7	212.1	207.8	204.4	201.2	199.8	197.6
42.5°	239.1	230.1	222.3	213.3	206.6	201.7	197.9	194.2	191.7	189.7	188.5
45°	222.5	214.5	206.8	197.8	191.6	187.4	183.0	179.5	177.4	175.9	173.7
47.5°	206.3	198.3	190.5	182.7	176.7	171.9	167.4	165.1	162.1	160.4	158.9
50°	194.6	187.4	179.2	171.9	165.9	161.1	157.5	154.5	151.9	149.6	148.6
52.5°	183.8	176.2	169.0	162.3	155.9	150.5	147.2	144.0	142.1	139.6	138.4
55°	166.1	158.7	152.7	146.0	139.8	135.2	131.2	128.4	126.4	123.6	122.0
57.5°	149.5	142.8	135.6	129.8	123.5	119.6	116.2	112.4	109.9	107.8	106.2
60°	138.2	130.6	124.3	119.0	113.3	108.3	105.3	102.3	99.7	97.5	96.1
62.5°	126.5	119.9	113.9	108.1	102.9	98.5	95.1	92.6	90.2	88.9	87.4
65°	108.5	103.3	97.3	92.5	87.6	84.5	81.6	79.5	77.8	76.8	75.6
67.5°	92.0	87.0	81.7	77.0	73.7	71.3	69.5	67.6	66.7	65.4	64.7
70°	81.3	76.0	71.4	67.8	64.6	62.8	61.6	60.2	59.4	57.8	57.0
72.5°	69.6	65.8	62.4	59.5	56.9	55.3	53.7	52.0	50.7	48.9	48.1
75°	54.8	51.3	48.7	46.8	45.1	43.0	40.7	38.9	38.3	37.7	37.5
77.5°	40.6	38.4	36.5	34.8	32.8	31.3	30.7	30.3	30.2	29.9	29.9
80°	31.9	29.9	28.5	26.5	25.3	25.3	25.3	24.9	25.1	25.1	25.1
82.5°	23.7	21.9	21.1	20.4	20.1	20.3	20.3	20.4	20.2	20.6	20.4
85°	12.2	12.4	12.8	12.7	12.8	12.8	13.3	13.0	13.3	12.8	13.3
87.5°	6.2	7.1	7.8	8.4	9.1	9.5	9.8	10.0	10.2	10.4	10.5
90°	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5	23.2	24.0	24.6
92.5°	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7	35.4	36.0	36.2
95°	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1	66.9	67.7	68.0
97.5°	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8	103.7	104.6	105.0
100°	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4	130.0	130.5	131.0
102.5°	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1	160.7	161.3	161.5
105°	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9	205.9	205.9	206.0
107.5°	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5	256.1	256.7	256.8
110°	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5	289.3	290.1	290.2



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7	322.5	323.5	323.9
115°	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0	372.2	372.4	372.4
117.5°	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8	422.8	422.8	422.4
120°	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7	456.5	456.3	456.0
122.5°	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9	490.4	490.0	489.4
125°	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9	541.1	540.4	539.6
127.5°	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2	591.2	590.0	589.0
130°	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6	624.8	624.1	623.0
132.5°	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1	657.2	656.3	655.3
135°	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7	705.9	705.2	704.6
137.5°	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3	753.5	752.7	751.9
140°	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6	785.3	785.1	784.4
142.5°	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9	814.7	814.5	813.8
145°	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0	857.7	857.6	857.0
147.5°	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6	898.6	898.6	898.0
150°	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8	923.8	923.8	923.2
152.5°	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7	947.0	947.4	947.0
155°	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2	981.0	981.8	981.5
157.5°	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1	1010.0	1010.7	1010.6
160°	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9	1027.9	1028.8	1028.9
162.5°	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6	1044.6	1045.6	1045.4
165°	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8	1065.9	1067.1	1067.0
167.5°	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3
170°	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1
172.5°	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7	1099.9	1101.1	1101.0
175°	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6	1107.8	1109.0	1108.9
177.5°	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2	1111.1	1112.1	1112.0
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	446.4	446.3	446.4	445.8	446.4	446.3	446.4	448.4	448.4	448.5	448.7
5°	415.4	415.3	414.7	412.8	414.7	415.3	415.4	416.0	417.7	420.4	419.7
7.5°	388.3	388.1	386.3	386.3	386.3	388.1	388.3	389.9	391.8	393.5	395.5
10°	372.3	372.5	370.1	368.7	370.1	372.5	372.3	373.7	376.3	377.7	379.1
12.5°	356.7	355.9	353.9	352.3	353.9	355.9	356.7	357.8	361.4	363.0	365.7
15°	336.2	334.2	329.4	329.8	329.4	334.2	336.2	335.4	339.0	341.0	341.8
17.5°	312.0	310.6	310.5	307.6	310.5	310.6	312.0	313.6	316.8	318.9	324.7
20°	297.9	296.9	297.3	294.5	297.3	296.9	297.9	301.1	303.1	305.9	310.6
22.5°	286.8	285.8	284.1	283.3	284.1	285.8	286.8	289.0	291.2	295.2	297.6
25°	270.6	269.0	267.4	268.4	267.4	269.0	270.6	271.8	275.8	277.6	281.2
27.5°	254.4	253.2	251.6	251.4	251.6	253.2	254.4	255.5	257.8	260.8	265.2
30°	244.1	242.9	242.1	241.1	242.1	242.9	244.1	245.1	247.4	250.6	253.7
32.5°	233.7	233.4	232.0	231.8	232.0	233.4	233.7	235.3	237.5	240.6	243.3
35°	220.1	218.9	218.4	218.6	218.4	218.9	220.1	220.8	222.8	225.7	228.3
37.5°	207.1	205.5	204.7	204.1	204.7	205.5	207.1	207.2	209.2	211.1	214.6
40°	197.8	196.2	195.8	195.4	195.8	196.2	197.8	197.6	199.8	201.2	204.4
42.5°	187.4	186.8	186.5	185.7	186.5	186.8	187.4	188.5	189.7	191.7	194.2
45°	173.1	172.9	171.7	172.1	171.7	172.9	173.1	173.7	175.9	177.4	179.5
47.5°	158.1	157.2	156.4	157.0	156.4	157.2	158.1	158.9	160.4	162.1	165.1
50°	147.8	147.4	145.6	146.0	145.6	147.4	147.8	148.6	149.6	151.9	154.5
52.5°	137.6	136.0	135.3	135.1	135.3	136.0	137.6	138.4	139.6	142.1	144.0
55°	120.5	118.7	118.0	117.5	118.0	118.7	120.5	122.0	123.6	126.4	128.4
57.5°	103.8	103.4	102.7	103.1	102.7	103.4	103.8	106.2	107.8	109.9	112.4
60°	94.1	94.1	94.1	93.8	94.1	94.1	94.1	96.1	97.5	99.7	102.3
62.5°	86.5	86.0	85.9	86.2	85.9	86.0	86.5	87.4	88.9	90.2	92.6
65°	75.0	74.8	74.0	73.8	74.0	74.8	75.0	75.6	76.8	77.8	79.5
67.5°	64.1	63.5	63.2	62.9	63.2	63.5	64.1	64.7	65.4	66.7	67.6
70°	56.0	55.5	54.3	54.6	54.3	55.5	56.0	57.0	57.8	59.4	60.2
72.5°	47.2	46.8	46.5	46.2	46.5	46.8	47.2	48.1	48.9	50.7	52.0
75°	37.3	37.1	36.9	37.7	36.9	37.1	37.3	37.5	37.7	38.3	38.9
77.5°	29.9	29.9	30.0	29.7	30.0	29.9	29.9	29.9	29.9	30.2	30.3
80°	25.1	25.1	24.9	24.9	24.9	25.1	25.1	25.1	25.1	25.1	24.9
82.5°	20.1	20.2	20.4	20.1	20.4	20.2	20.1	20.4	20.6	20.2	20.4
85°	13.3	13.0	13.4	13.3	13.4	13.0	13.3	13.3	12.8	13.3	13.0
87.5°	10.9	10.7	10.8	11.0	10.8	10.7	10.9	10.5	10.4	10.2	10.0
90°	25.0	25.4	25.7	26.2	25.7	25.4	25.0	24.6	24.0	23.2	22.5
92.5°	35.9	35.7	35.5	35.2	35.5	35.7	35.9	36.2	36.0	35.4	34.7
95°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	68.0	67.7	66.9	66.1
97.5°	104.9	104.9	104.8	104.7	104.8	104.9	104.9	105.0	104.6	103.7	102.8
100°	131.4	131.8	132.2	132.6	132.2	131.8	131.4	131.0	130.5	130.0	129.4
102.5°	161.4	161.4	161.3	161.2	161.3	161.4	161.4	161.5	161.3	160.7	160.1
105°	206.5	206.8	207.2	207.6	207.2	206.8	206.5	206.0	205.9	205.9	205.9
107.5°	256.7	256.4	256.1	255.9	256.1	256.4	256.7	256.8	256.7	256.1	255.5
110°	289.9	289.5	289.1	288.7	289.1	289.5	289.9	290.2	290.1	289.3	288.5



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	323.8	323.7	323.7	323.6	323.7	323.7	323.8	323.9	323.5	322.5	321.7
115°	372.2	372.0	371.8	371.6	371.8	372.0	372.2	372.4	372.4	372.2	372.0
117.5°	421.9	421.4	420.8	420.3	420.8	421.4	421.9	422.4	422.8	422.8	422.8
120°	455.6	455.2	454.9	454.4	454.9	455.2	455.6	456.0	456.3	456.5	456.7
122.5°	488.9	488.4	487.8	487.2	487.8	488.4	488.9	489.4	490.0	490.4	490.9
125°	538.8	538.0	537.3	536.5	537.3	538.0	538.8	539.6	540.4	541.1	541.9
127.5°	588.1	587.3	586.3	585.5	586.3	587.3	588.1	589.0	590.0	591.2	592.2
130°	621.6	620.3	619.0	617.6	619.0	620.3	621.6	623.0	624.1	624.8	625.6
132.5°	654.2	653.2	652.1	651.1	652.1	653.2	654.2	655.3	656.3	657.2	658.1
135°	704.2	703.9	703.4	703.1	703.4	703.9	704.2	704.6	705.2	705.9	706.7
137.5°	751.1	750.4	749.7	749.0	749.7	750.4	751.1	751.9	752.7	753.5	754.3
140°	783.0	781.7	780.3	778.9	780.3	781.7	783.0	784.4	785.1	785.3	785.6
142.5°	812.8	811.8	810.7	809.7	810.7	811.8	812.8	813.8	814.5	814.7	814.9
145°	856.3	855.5	854.7	853.9	854.7	855.5	856.3	857.0	857.6	857.7	858.0
147.5°	896.9	895.7	894.6	893.4	894.6	895.7	896.9	898.0	898.6	898.6	898.6
150°	922.0	920.8	919.7	918.5	919.7	920.8	922.0	923.2	923.8	923.8	923.8
152.5°	946.0	944.9	943.9	943.0	943.9	944.9	946.0	947.0	947.4	947.0	946.7
155°	980.2	978.8	977.5	976.1	977.5	978.8	980.2	981.5	981.8	981.0	980.2
157.5°	1009.5	1008.5	1007.4	1006.3	1007.4	1008.5	1009.5	1010.6	1010.7	1010.0	1009.1
160°	1028.1	1027.3	1026.6	1025.8	1026.6	1027.3	1028.1	1028.9	1028.8	1027.9	1026.9
162.5°	1044.2	1042.9	1041.7	1040.4	1041.7	1042.9	1044.2	1045.4	1045.6	1044.6	1043.6
165°	1065.7	1064.3	1062.9	1061.6	1062.9	1064.3	1065.7	1067.0	1067.1	1065.9	1064.8
167.5°	1083.1	1081.9	1080.7	1079.5	1080.7	1081.9	1083.1	1084.3	1084.3	1083.1	1081.9
170°	1092.7	1091.3	1089.9	1088.6	1089.9	1091.3	1092.7	1094.1	1094.1	1092.7	1091.3
172.5°	1099.7	1098.3	1096.9	1095.6	1096.9	1098.3	1099.7	1101.0	1101.1	1099.9	1098.7
175°	1107.5	1106.1	1104.8	1103.5	1104.8	1106.1	1107.5	1108.9	1109.0	1107.8	1106.6
177.5°	1110.9	1109.8	1108.7	1107.7	1108.7	1109.8	1110.9	1112.0	1112.1	1111.1	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	447.3	449.5	451.8	453.8	457.0	458.5	460.5	461.4	463.7	467.3	470.2
5°	420.1	423.3	427.5	430.8	436.3	440.5	445.1	449.5	454.8	462.2	468.8
7.5°	397.0	400.1	405.2	411.6	417.5	423.5	429.8	435.8	443.2	453.9	464.4
10°	381.8	385.6	391.6	398.4	405.8	411.6	419.0	426.6	435.9	448.2	460.8
12.5°	368.6	371.4	378.4	384.9	393.3	400.7	407.9	416.9	427.4	440.4	455.6
15°	347.7	351.6	358.4	365.7	374.5	382.4	391.8	402.6	412.8	428.9	447.3
17.5°	326.6	332.7	339.8	347.9	354.5	365.3	375.5	386.6	399.2	416.2	436.5
20°	313.1	318.0	324.6	336.4	345.0	353.3	362.7	376.5	388.1	407.4	428.4
22.5°	301.7	305.2	312.7	322.4	332.5	342.0	351.6	364.8	379.2	397.4	420.3
25°	284.8	290.5	296.1	303.1	313.9	325.4	335.8	347.1	362.3	381.8	406.4
27.5°	268.4	273.5	279.0	287.6	295.8	306.5	317.5	330.3	346.6	367.2	392.3
30°	257.8	261.6	266.8	277.8	285.2	294.5	307.3	318.7	334.0	355.9	382.4
32.5°	246.8	251.8	257.5	266.0	275.2	283.9	295.6	308.0	323.6	345.1	372.2
35°	231.3	237.1	242.9	249.2	258.4	267.4	277.2	290.8	306.7	327.6	354.2
37.5°	217.0	221.6	226.4	234.1	242.8	251.4	260.6	274.1	289.0	311.5	336.0
40°	207.8	212.1	215.7	223.7	232.1	241.3	250.4	262.2	278.2	299.3	323.0
42.5°	197.9	201.7	206.6	213.3	222.3	230.1	239.1	250.3	265.4	286.8	307.5
45°	183.0	187.4	191.6	197.8	206.8	214.5	222.5	233.1	248.6	266.2	284.6
47.5°	167.4	171.9	176.7	182.7	190.5	198.3	206.3	215.7	229.8	247.1	259.6
50°	157.5	161.1	165.9	171.9	179.2	187.4	194.6	204.8	218.3	231.9	242.7
52.5°	147.2	150.5	155.9	162.3	169.0	176.2	183.8	192.6	204.7	217.6	226.2
55°	131.2	135.2	139.8	146.0	152.7	158.7	166.1	175.1	184.8	194.4	200.2
57.5°	116.2	119.6	123.5	129.8	135.6	142.8	149.5	156.4	165.4	172.6	176.4
60°	105.3	108.3	113.3	119.0	124.3	130.6	138.2	145.3	152.1	157.9	160.8
62.5°	95.1	98.5	102.9	108.1	113.9	119.9	126.5	132.4	138.4	143.4	145.5
65°	81.6	84.5	87.6	92.5	97.3	103.3	108.5	114.5	119.0	121.7	123.6
67.5°	69.5	71.3	73.7	77.0	81.7	87.0	92.0	96.7	100.4	102.3	103.9
70°	61.6	62.8	64.6	67.8	71.4	76.0	81.3	84.6	87.8	89.5	91.1
72.5°	53.7	55.3	56.9	59.5	62.4	65.8	69.6	73.7	75.5	77.4	78.4
75°	40.7	43.0	45.1	46.8	48.7	51.3	54.8	57.3	58.4	60.0	60.2
77.5°	30.7	31.3	32.8	34.8	36.5	38.4	40.6	42.9	43.4	44.2	44.8
80°	25.3	25.3	25.3	26.5	28.5	29.9	31.9	33.1	33.9	34.1	34.3
82.5°	20.3	20.3	20.1	20.4	21.1	21.9	23.7	25.1	25.7	25.6	25.1
85°	13.3	12.8	12.8	12.7	12.8	12.4	12.2	13.0	14.2	14.2	13.9
87.5°	9.8	9.5	9.1	8.4	7.8	7.1	6.2	6.0	5.6	5.9	5.3
90°	21.7	20.9	18.4	15.9	13.3	10.8	8.6	6.7	4.7	2.8	0.9
92.5°	34.1	33.5	32.0	30.7	29.2	27.7	26.3	25.1	23.8	22.4	21.1
95°	65.3	64.6	63.0	61.5	59.9	58.4	56.9	55.5	54.2	52.8	51.5
97.5°	101.9	101.0	99.9	98.8	97.6	96.5	95.5	94.5	93.4	92.4	91.4
100°	128.8	128.2	127.3	126.3	125.4	124.3	123.3	122.1	121.0	119.8	118.6
102.5°	159.5	158.9	157.6	156.4	155.1	153.8	152.8	152.1	151.4	150.8	150.1
105°	205.9	205.9	204.1	202.3	200.6	198.9	197.9	197.4	197.1	196.7	196.3
107.5°	254.8	254.2	253.5	252.8	252.1	251.4	250.9	250.7	250.5	250.2	250.0
110°	287.7	287.0	286.6	286.2	285.9	285.4	285.1	284.6	284.3	283.9	283.5



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	320.7	319.8	319.7	319.6	319.5	319.4	319.3	319.1	318.8	318.7	318.4
115°	371.8	371.6	372.0	372.4	372.7	373.2	373.1	372.5	371.9	371.3	370.7
117.5°	422.8	422.9	423.4	423.9	424.4	424.9	425.0	424.6	424.2	423.8	423.4
120°	456.8	457.1	458.1	459.0	459.9	461.0	460.9	459.7	458.6	457.4	456.2
122.5°	491.5	492.0	492.5	493.0	493.5	494.0	493.8	492.9	492.1	491.3	490.4
125°	542.7	543.5	543.8	544.2	544.6	545.0	544.9	544.3	543.7	543.1	542.6
127.5°	593.3	594.3	594.8	595.2	595.6	596.1	595.6	594.4	593.2	591.9	590.7
130°	626.4	627.2	627.8	628.4	629.0	629.5	629.0	627.5	625.9	624.4	622.8
132.5°	659.0	660.0	660.4	660.8	661.2	661.7	661.2	659.6	658.0	656.4	654.9
135°	707.5	708.3	708.5	708.7	708.9	709.0	708.6	707.4	706.3	705.1	704.0
137.5°	755.1	756.0	755.4	754.9	754.4	753.9	753.2	752.2	751.2	750.3	749.3
140°	785.7	785.9	785.7	785.6	785.3	785.1	784.5	783.6	782.6	781.7	780.7
142.5°	815.0	815.3	814.9	814.5	814.2	813.8	813.2	812.2	811.2	810.3	809.3
145°	858.2	858.3	857.7	857.2	856.6	856.0	855.5	855.1	854.7	854.4	853.9
147.5°	898.6	898.6	898.1	897.6	897.0	896.5	895.9	895.2	894.4	893.7	893.0
150°	923.8	923.8	923.3	923.0	922.6	922.2	921.8	921.4	921.0	920.7	920.2
152.5°	946.4	946.1	945.9	945.6	945.4	945.1	944.8	944.3	943.7	943.1	942.6
155°	979.5	978.7	978.5	978.4	978.1	977.9	977.8	977.8	977.8	977.8	977.8
157.5°	1008.3	1007.5	1007.4	1007.2	1007.0	1006.9	1006.9	1007.1	1007.4	1007.6	1007.9
160°	1025.9	1024.9	1024.9	1024.9	1024.9	1024.9	1025.1	1025.5	1025.9	1026.3	1026.7
162.5°	1042.7	1041.7	1041.6	1041.4	1041.2	1041.0	1041.3	1041.8	1042.3	1042.9	1043.4
165°	1063.6	1062.5	1062.5	1062.5	1062.5	1062.5	1062.7	1063.3	1063.9	1064.5	1065.1
167.5°	1080.7	1079.5	1079.4	1079.3	1079.1	1078.9	1079.3	1080.0	1080.8	1081.6	1082.4
170°	1089.9	1088.6	1088.6	1088.6	1088.6	1088.6	1089.0	1089.8	1090.5	1091.3	1092.1
172.5°	1097.5	1096.3	1096.3	1096.3	1096.3	1096.3	1096.7	1097.4	1098.2	1099.0	1099.8
175°	1105.5	1104.3	1104.3	1104.3	1104.3	1104.3	1104.7	1105.5	1106.3	1107.1	1107.8
177.5°	1109.2	1108.4	1108.4	1108.4	1108.4	1108.4	1108.6	1109.2	1109.9	1110.5	1111.1
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	471.1	472.9	475.2	478.5	481.1	483.4	483.8	484.5	486.1	488.8	490.9
5°	474.2	478.8	486.2	493.4	501.3	507.7	513.8	518.0	521.9	530.4	537.2
7.5°	473.2	483.5	495.2	508.1	521.2	533.9	545.7	556.3	566.8	579.1	593.1
10°	472.6	484.7	500.3	516.9	535.2	553.0	570.3	583.8	599.3	613.5	631.3
12.5°	469.6	486.9	505.6	526.8	549.3	569.9	592.6	611.1	629.0	649.4	670.1
15°	465.5	486.6	510.3	538.6	572.7	597.5	620.9	653.2	675.2	697.2	726.9
17.5°	458.3	484.1	513.6	550.4	578.8	612.3	647.2	672.8	702.5	733.6	760.4
20°	452.5	482.4	515.6	551.6	588.0	624.2	658.1	688.6	719.4	755.3	777.3
22.5°	446.8	476.3	510.7	549.1	588.1	626.4	664.7	700.5	735.0	771.3	799.4
25°	434.5	469.6	506.9	546.0	584.5	626.6	672.4	712.3	755.0	792.4	819.1
27.5°	422.1	454.3	491.4	531.1	573.9	623.6	677.4	722.8	765.6	792.4	800.7
30°	410.8	444.9	479.1	519.4	565.7	621.2	678.4	730.4	765.4	777.1	768.4
32.5°	399.4	430.3	464.1	505.4	554.6	615.3	679.7	725.9	747.0	738.1	703.0
35°	379.4	407.2	439.9	481.2	537.8	612.0	674.4	705.7	700.5	650.3	584.1
37.5°	357.8	380.6	410.8	454.0	520.4	599.0	651.6	656.3	611.1	534.1	457.6
40°	340.8	361.3	392.4	437.5	506.9	586.2	628.7	610.0	540.0	454.3	390.5
42.5°	324.3	341.6	371.5	420.2	494.0	568.6	594.5	553.9	473.1	392.1	334.1
45°	296.3	312.5	342.6	392.5	467.8	535.2	531.8	461.2	380.3	315.1	267.0
47.5°	269.8	284.0	312.2	363.2	437.0	485.0	453.1	378.0	309.4	257.1	222.7
50°	251.0	265.0	293.1	343.5	412.2	447.3	401.8	329.4	266.6	223.3	196.0
52.5°	233.0	246.7	272.3	321.4	382.4	403.4	354.5	287.3	235.0	197.6	174.2
55°	207.8	218.3	241.3	288.3	333.8	338.6	289.0	232.9	189.8	163.7	147.7
57.5°	182.2	191.1	214.0	251.3	283.3	280.8	233.8	185.2	156.2	136.8	125.2
60°	165.5	174.4	194.4	226.4	250.6	242.1	199.0	159.9	135.0	120.8	111.5
62.5°	149.9	156.8	175.6	199.1	216.4	206.8	170.1	137.8	118.0	106.0	98.7
65°	127.3	133.0	148.0	160.3	169.9	160.7	130.2	107.7	93.5	85.1	80.1
67.5°	106.0	109.5	119.0	123.5	130.3	120.1	97.9	82.8	74.7	67.7	64.1
70°	92.5	95.1	100.1	103.8	105.5	95.1	78.6	67.6	60.8	55.8	53.6
72.5°	79.0	81.3	82.3	85.2	84.3	74.6	63.2	54.4	49.5	46.1	43.3
75°	60.4	61.4	60.4	59.2	56.6	49.8	41.9	37.5	33.9	32.3	31.3
77.5°	44.0	43.7	42.4	40.5	36.0	31.7	27.5	26.0	24.5	23.6	23.2
80°	33.9	33.1	31.9	28.8	25.1	22.0	21.1	20.1	19.5	18.4	18.3
82.5°	25.2	24.7	22.7	20.2	17.6	16.1	15.3	14.9	14.3	13.8	13.8
85°	13.4	12.8	10.6	9.2	8.9	8.4	8.3	8.3	7.4	7.2	7.2
87.5°	4.9	4.3	4.6	4.5	4.9	5.1	5.8	5.9	6.3	6.6	6.5
90°	2.8	4.7	6.7	8.6	10.8	13.3	15.9	18.4	20.9	21.7	22.5
92.5°	22.4	23.8	25.1	26.3	27.7	29.2	30.7	32.0	33.5	34.1	34.7
95°	52.8	54.2	55.5	56.9	58.4	59.9	61.5	63.0	64.6	65.3	66.1
97.5°	92.4	93.4	94.5	95.5	96.5	97.6	98.8	99.9	101.0	101.9	102.8
100°	119.8	121.0	122.1	123.3	124.3	125.4	126.3	127.3	128.2	128.8	129.4
102.5°	150.8	151.4	152.1	152.8	153.8	155.1	156.4	157.6	158.9	159.5	160.1
105°	196.7	197.1	197.4	197.9	198.9	200.6	202.3	204.1	205.9	205.9	205.9
107.5°	250.2	250.5	250.7	250.9	251.4	252.1	252.8	253.5	254.2	254.8	255.5
110°	283.9	284.3	284.6	285.1	285.4	285.9	286.2	286.6	287.0	287.7	288.5



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	318.7	318.8	319.1	319.3	319.4	319.5	319.6	319.7	319.8	320.7	321.7
115°	371.3	371.9	372.5	373.1	373.2	372.7	372.4	372.0	371.6	371.8	372.0
117.5°	423.8	424.2	424.6	425.0	424.9	424.4	423.9	423.4	422.9	422.8	422.8
120°	457.4	458.6	459.7	460.9	461.0	459.9	459.0	458.1	457.1	456.8	456.7
122.5°	491.3	492.1	492.9	493.8	494.0	493.5	493.0	492.5	492.0	491.5	490.9
125°	543.1	543.7	544.3	544.9	545.0	544.6	544.2	543.8	543.5	542.7	541.9
127.5°	591.9	593.2	594.4	595.6	596.1	595.6	595.2	594.8	594.3	593.3	592.2
130°	624.4	625.9	627.5	629.0	629.5	629.0	628.4	627.8	627.2	626.4	625.6
132.5°	656.4	658.0	659.6	661.2	661.7	661.2	660.8	660.4	660.0	659.0	658.1
135°	705.1	706.3	707.4	708.6	709.0	708.9	708.7	708.5	708.3	707.5	706.7
137.5°	750.3	751.2	752.2	753.2	753.9	754.4	754.9	755.4	756.0	755.1	754.3
140°	781.7	782.6	783.6	784.5	785.1	785.3	785.6	785.7	785.9	785.7	785.6
142.5°	810.3	811.2	812.2	813.2	813.8	814.2	814.5	814.9	815.3	815.0	814.9
145°	854.4	854.7	855.1	855.5	856.0	856.6	857.2	857.7	858.3	858.2	858.0
147.5°	893.7	894.4	895.2	895.9	896.5	897.0	897.6	898.1	898.6	898.6	898.6
150°	920.7	921.0	921.4	921.8	922.2	922.6	923.0	923.3	923.8	923.8	923.8
152.5°	943.1	943.7	944.3	944.8	945.1	945.4	945.6	945.9	946.1	946.4	946.7
155°	977.8	977.8	977.8	977.8	977.9	978.1	978.4	978.5	978.7	979.5	980.2
157.5°	1007.6	1007.4	1007.1	1006.9	1006.9	1007.0	1007.2	1007.4	1007.5	1008.3	1009.1
160°	1026.3	1025.9	1025.5	1025.1	1024.9	1024.9	1024.9	1024.9	1024.9	1025.9	1026.9
162.5°	1042.9	1042.3	1041.8	1041.3	1041.0	1041.2	1041.4	1041.6	1041.7	1042.7	1043.6
165°	1064.5	1063.9	1063.3	1062.7	1062.5	1062.5	1062.5	1062.5	1062.5	1063.6	1064.8
167.5°	1081.6	1080.8	1080.0	1079.3	1078.9	1079.1	1079.3	1079.4	1079.5	1080.7	1081.9
170°	1091.3	1090.5	1089.8	1089.0	1088.6	1088.6	1088.6	1088.6	1088.6	1089.9	1091.3
172.5°	1099.0	1098.2	1097.4	1096.7	1096.3	1096.3	1096.3	1096.3	1096.3	1097.5	1098.7
175°	1107.1	1106.3	1105.5	1104.7	1104.3	1104.3	1104.3	1104.3	1104.3	1105.5	1106.6
177.5°	1110.5	1109.9	1109.2	1108.6	1108.4	1108.4	1108.4	1108.4	1108.4	1109.2	1110.2
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	468.6	468.6	468.6	468.6	468.6	468.6	468.6
2.5°	494.3	494.3	494.9	497.3	497.7	499.7	499.1
5°	543.2	547.0	548.5	554.5	558.0	559.6	556.5
7.5°	603.0	613.8	618.9	625.3	630.8	632.5	628.1
10°	646.7	658.0	667.4	673.2	678.6	682.3	686.8
12.5°	688.9	702.7	711.7	719.9	725.5	730.0	730.8
15°	734.8	755.6	771.5	783.2	788.9	791.9	790.7
17.5°	781.0	800.4	811.7	823.5	831.6	832.0	832.2
20°	807.2	826.0	839.1	847.9	857.0	856.5	858.6
22.5°	824.7	839.6	849.5	855.9	859.0	857.5	857.9
25°	832.8	837.3	835.5	825.3	822.6	813.2	814.9
27.5°	790.7	769.8	748.2	720.5	698.5	681.1	681.9
30°	733.4	696.5	654.4	619.1	587.4	578.5	559.6
32.5°	653.3	598.0	548.6	515.7	488.5	481.1	464.7
35°	517.5	463.7	413.0	382.5	370.5	353.6	353.4
37.5°	402.3	354.9	328.1	305.2	293.3	283.0	282.1
40°	338.4	301.5	281.2	264.8	253.0	245.3	243.5
42.5°	293.8	264.0	245.0	234.8	225.7	221.7	218.8
45°	239.9	219.8	206.6	197.4	193.2	190.2	188.6
47.5°	200.7	187.3	178.2	172.0	168.7	165.5	166.3
50°	179.3	168.3	161.7	155.8	153.3	151.0	151.3
52.5°	162.1	152.2	146.9	142.7	139.5	137.8	137.2
55°	137.6	131.4	126.0	123.0	121.1	119.0	118.4
57.5°	117.4	112.5	108.1	104.8	104.3	102.2	102.5
60°	103.9	99.9	96.3	94.5	93.1	91.3	91.9
62.5°	92.8	89.5	86.2	84.7	83.3	82.0	82.2
65°	76.0	72.8	70.8	70.0	69.4	68.8	68.2
67.5°	60.6	58.6	57.3	55.6	54.4	54.2	53.6
70°	51.0	48.3	46.1	43.9	43.3	43.1	43.3
72.5°	40.8	39.2	38.6	37.5	37.4	36.9	37.2
75°	30.7	30.0	29.7	28.8	28.8	28.8	28.8
77.5°	22.6	22.3	22.0	21.9	21.7	21.4	21.4
80°	17.7	17.5	17.0	17.0	16.9	17.0	16.9
82.5°	13.3	13.3	12.9	12.9	12.7	12.6	12.7
85°	6.8	6.6	7.1	6.6	6.8	6.5	6.8
87.5°	6.5	6.7	6.7	6.8	6.7	7.1	6.8
90°	23.2	24.0	24.6	25.0	25.4	25.7	26.2
92.5°	35.4	36.0	36.2	35.9	35.7	35.5	35.2
95°	66.9	67.7	68.0	68.0	68.0	68.0	68.0
97.5°	103.7	104.6	105.0	104.9	104.9	104.8	104.7
100°	130.0	130.5	131.0	131.4	131.8	132.2	132.6
102.5°	160.7	161.3	161.5	161.4	161.4	161.3	161.2
105°	205.9	205.9	206.0	206.5	206.8	207.2	207.6
107.5°	256.1	256.7	256.8	256.7	256.4	256.1	255.9
110°	289.3	290.1	290.2	289.9	289.5	289.1	288.7



TEST NUMBER: P332399-935

CATALOG NUMBER: S123RDIW-S340D1030U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	322.5	323.5	323.9	323.8	323.7	323.7	323.6
115°	372.2	372.4	372.4	372.2	372.0	371.8	371.6
117.5°	422.8	422.8	422.4	421.9	421.4	420.8	420.3
120°	456.5	456.3	456.0	455.6	455.2	454.9	454.4
122.5°	490.4	490.0	489.4	488.9	488.4	487.8	487.2
125°	541.1	540.4	539.6	538.8	538.0	537.3	536.5
127.5°	591.2	590.0	589.0	588.1	587.3	586.3	585.5
130°	624.8	624.1	623.0	621.6	620.3	619.0	617.6
132.5°	657.2	656.3	655.3	654.2	653.2	652.1	651.1
135°	705.9	705.2	704.6	704.2	703.9	703.4	703.1
137.5°	753.5	752.7	751.9	751.1	750.4	749.7	749.0
140°	785.3	785.1	784.4	783.0	781.7	780.3	778.9
142.5°	814.7	814.5	813.8	812.8	811.8	810.7	809.7
145°	857.7	857.6	857.0	856.3	855.5	854.7	853.9
147.5°	898.6	898.6	898.0	896.9	895.7	894.6	893.4
150°	923.8	923.8	923.2	922.0	920.8	919.7	918.5
152.5°	947.0	947.4	947.0	946.0	944.9	943.9	943.0
155°	981.0	981.8	981.5	980.2	978.8	977.5	976.1
157.5°	1010.0	1010.7	1010.6	1009.5	1008.5	1007.4	1006.3
160°	1027.9	1028.8	1028.9	1028.1	1027.3	1026.6	1025.8
162.5°	1044.6	1045.6	1045.4	1044.2	1042.9	1041.7	1040.4
165°	1065.9	1067.1	1067.0	1065.7	1064.3	1062.9	1061.6
167.5°	1083.1	1084.3	1084.3	1083.1	1081.9	1080.7	1079.5
170°	1092.7	1094.1	1094.1	1092.7	1091.3	1089.9	1088.6
172.5°	1099.9	1101.1	1101.0	1099.7	1098.3	1096.9	1095.6
175°	1107.8	1109.0	1108.9	1107.5	1106.1	1104.8	1103.5
177.5°	1111.1	1112.1	1112.0	1110.9	1109.8	1108.7	1107.7
180°	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4	1110.4

(END OF REPORT)