

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: P332391-935

Luminaire Tested: **S123RDIW-S340D460U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332391-935
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-S340D460U935-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 460 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2544.4 lumens
Efficiency: N/A
Efficacy: 110.6 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: General Diffuse

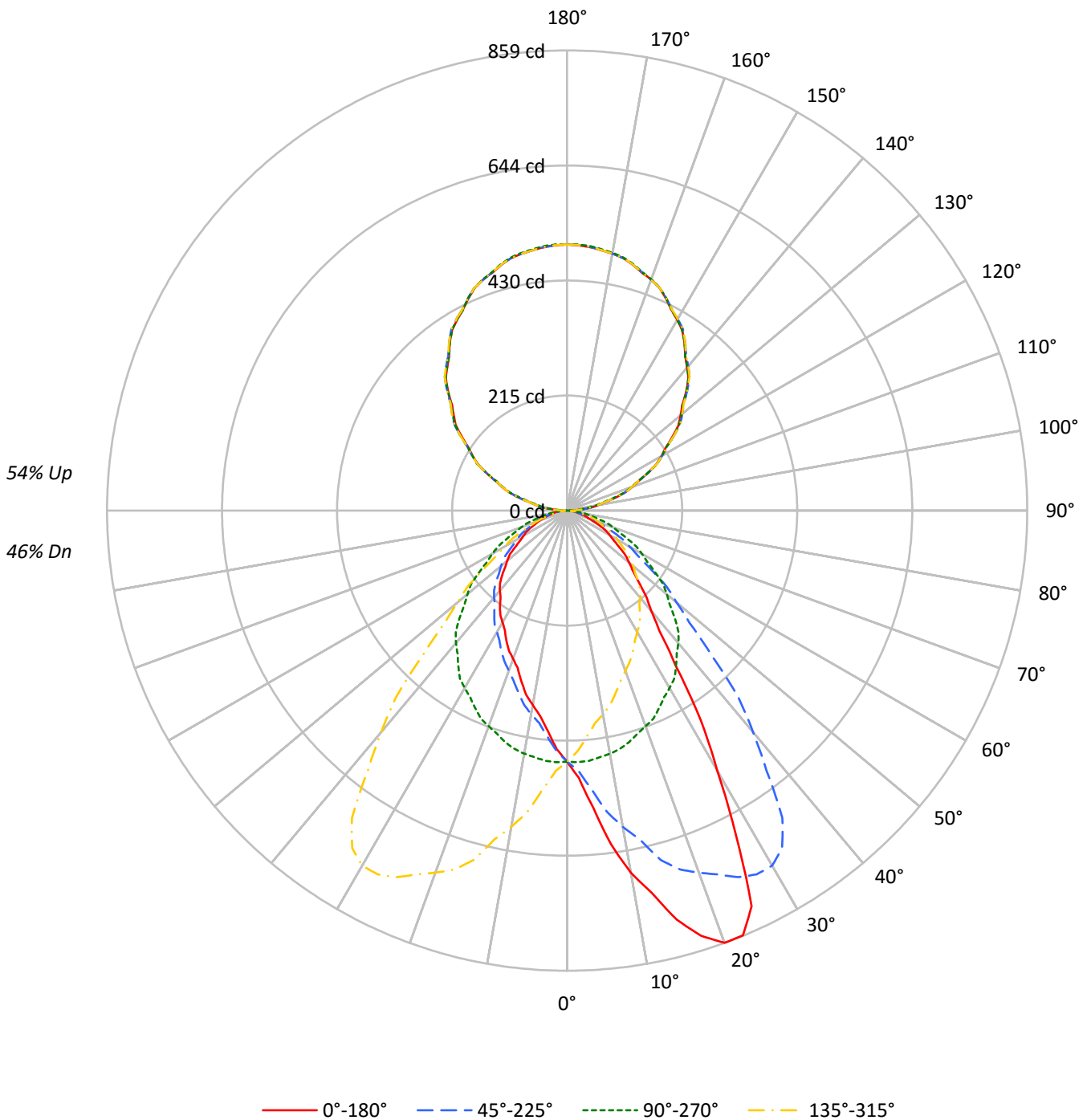
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46				
1	97	93	90	86	89	86	83	80	72	70	68	59	57	56	47	46	45	40				
2	89	82	76	71	82	76	71	66	64	60	57	52	50	48	42	40	39	34				
3	82	73	66	60	75	67	61	56	57	52	48	47	44	41	38	36	34	30				
4	75	65	57	51	69	60	53	48	51	46	42	42	38	35	34	32	29	26				
5	69	58	50	44	63	53	47	41	45	40	36	38	34	31	31	28	26	23				
6	64	52	44	39	58	48	41	36	41	36	32	34	30	27	28	25	23	20				
7	59	47	39	34	54	44	37	32	37	32	28	31	27	24	26	23	21	18				
8	55	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	19	16				
9	51	39	32	27	47	36	30	25	31	26	23	27	23	20	22	19	17	15				
10	48	36	29	24	44	33	27	23	29	24	20	25	21	18	21	18	15	14				

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: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.1	1.8
10°-20°	144.0	5.7
20°-30°	226.2	8.9
30°-40°	236.0	9.3
40°-50°	201.9	7.9
50°-60°	153.9	6.0
60°-70°	98.7	3.9
70°-80°	47.5	1.9
80°-90°	14.0	0.6
90°-100°	32.4	1.3
100°-110°	96.8	3.8
110°-120°	164.7	6.5
120°-130°	216.7	8.5
130°-140°	243.5	9.6
140°-150°	239.4	9.4
150°-160°	201.5	7.9
160°-170°	134.2	5.3
170°-180°	47.0	1.8
0°-30°	416.2	16.4
0°-40°	652.2	25.6
0°-60°	1008.0	39.6
0°-90°	1168.2	45.9
90°-120°	293.9	11.6
90°-150°	993.5	39.0
90°-180°	1376.0	54.1
0°-180°	2544.4	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	8
90°	12	0	12	0	12	6
95°	30	23	30	23	30	31
105°	93	88	93	88	93	99
115°	166	166	166	166	166	165
125°	240	243	240	243	240	215
135°	314	315	314	315	314	242
145°	382	382	382	382	382	238
155°	437	437	437	437	437	201
165°	475	476	475	476	475	134
175°	494	496	494	496	494	47
180°	497	497	497	497	497	



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	4.0	4.2	3.9	4.0	4.0	4.0	4.0	4.0	4.2	4.0	3.9
90°	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1	9.7	9.4	8.3
92.5°	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5	15.2	15.0	14.4
95°	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5	29.2	28.8	28.2
97.5°	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0	45.5	45.2	44.7
100°	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9	57.6	57.3	56.9
102.5°	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6	71.4	71.1	70.5
105°	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0	92.0	92.0	91.3
107.5°	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3	114.0	113.7	113.4
110°	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1	128.7	128.4	128.2



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9	143.4	143.0	143.0
115°	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4	166.3	166.3	166.4
117.5°	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2	189.2	189.2	189.4
120°	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3	204.4	204.5	204.9
122.5°	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6	219.8	220.1	220.3
125°	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4	242.7	243.1	243.2
127.5°	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9	265.4	265.9	266.0
130°	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8	280.2	280.5	280.8
132.5°	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4	294.8	295.2	295.4
135°	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2	316.5	316.8	316.9
137.5°	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4	337.8	338.1	337.9
140°	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4	351.5	351.5	351.5
142.5°	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5	364.5	364.6	364.5
145°	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7	383.8	383.9	383.7
147.5°	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2	413.2	413.2	413.0
152.5°	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4	423.4	423.2	423.1
155°	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5	438.2	437.8	437.7
157.5°	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4	451.0	450.6	450.6
160°	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3	458.9	458.5	458.5
162.5°	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8	466.4	466.0	465.9
165°	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3	475.8	475.3	475.3
167.5°	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0	483.5	482.8	482.8
170°	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2	487.6	487.0	487.0
172.5°	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5	490.9	490.3	490.3
175°	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0	494.5	494.0	494.0
177.5°	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6	496.2	495.8	495.8
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	4.0	3.6	3.7	3.5	3.8	3.8	4.6	5.3	5.5	5.1	5.3
90°	7.1	5.9	4.8	3.9	3.0	2.2	1.3	0.4	1.3	2.2	3.0
92.5°	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5	10.1	10.6	11.2
95°	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0	23.6	24.2	24.9
97.5°	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9	41.3	41.8	42.3
100°	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0	53.6	54.1	54.6
102.5°	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1	67.4	67.8	68.0
105°	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8	88.0	88.2	88.3
107.5°	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8	111.9	112.0	112.1
110°	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8	127.0	127.2	127.3



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4	142.5	142.7	142.8
115°	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8	166.1	166.3	166.6
117.5°	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4	189.6	189.8	189.9
120°	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1	204.6	205.1	205.6
122.5°	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4	219.7	220.2	220.5
125°	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7	243.0	243.2	243.5
127.5°	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2	264.8	265.4	265.9
130°	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6	279.3	280.0	280.7
132.5°	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9	293.6	294.4	295.1
135°	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9	315.4	315.9	316.4
137.5°	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2	335.6	336.0	336.5
140°	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2	349.7	350.1	350.5
142.5°	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1	362.5	362.9	363.3
145°	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0	382.2	382.4	382.5
147.5°	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5	399.8	400.1	400.4
150°	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6	411.8	412.0	412.2
152.5°	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6	421.9	422.1	422.3
155°	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4	437.4	437.4	437.4
157.5°	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8	450.7	450.6	450.5
160°	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3	459.1	458.9	458.7
162.5°	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7	466.5	466.2	466.0
165°	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4	476.1	475.9	475.6
167.5°	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1	483.8	483.5	483.1
170°	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5	488.2	487.8	487.5
172.5°	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0	491.6	491.3	490.9
175°	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5	495.2	494.8	494.5
177.5°	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1	496.7	496.5	496.2
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	5.3	5.9	6.4	6.7	7.1	7.1	7.4	7.5	7.7	7.7	7.8
90°	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1	10.4	10.8	11.0
92.5°	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5	15.8	16.1	16.2
95°	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5	29.9	30.2	30.4
97.5°	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0	46.4	46.8	46.9
100°	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9	58.1	58.4	58.6
102.5°	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6	71.9	72.2	72.2
105°	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0	92.0	92.0	92.1
107.5°	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3	114.5	114.8	114.9
110°	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1	129.4	129.8	129.8



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9	144.3	144.7	144.9
115°	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4	166.5	166.6	166.6
117.5°	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2	189.1	189.1	189.0
120°	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3	204.2	204.1	204.0
122.5°	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6	219.4	219.1	219.0
125°	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4	242.0	241.7	241.3
127.5°	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9	264.4	263.9	263.5
130°	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8	279.5	279.1	278.7
132.5°	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4	293.9	293.5	293.1
135°	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2	315.8	315.5	315.2
137.5°	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4	337.1	336.7	336.3
140°	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4	351.3	351.2	350.9
142.5°	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5	364.4	364.3	364.0
145°	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7	383.7	383.6	383.4
147.5°	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0	402.0	402.0	401.7
150°	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2	413.2	413.2	412.9
152.5°	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4	423.6	423.8	423.6
155°	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5	438.9	439.2	439.0
157.5°	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4	451.8	452.1	452.0
160°	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3	459.8	460.2	460.2
162.5°	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8	467.3	467.7	467.6
165°	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3	476.8	477.3	477.3
167.5°	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0	484.5	485.0	485.0
170°	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2	488.8	489.4	489.4
172.5°	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5	492.0	492.5	492.5
175°	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0	495.5	496.0	496.0
177.5°	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6	497.1	497.4	497.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	8.2	7.9	7.9	8.1	7.9	7.9	8.2	7.8	7.7	7.7	7.5
90°	11.2	11.4	11.5	11.7	11.5	11.4	11.2	11.0	10.8	10.4	10.1
92.5°	16.1	15.9	15.8	15.8	15.8	15.9	16.1	16.2	16.1	15.8	15.5
95°	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.4	30.2	29.9	29.5
97.5°	46.9	46.9	46.8	46.8	46.8	46.9	46.9	46.9	46.8	46.4	46.0
100°	58.8	59.0	59.2	59.3	59.2	59.0	58.8	58.6	58.4	58.1	57.9
102.5°	72.2	72.2	72.2	72.1	72.2	72.2	72.2	72.2	72.2	71.9	71.6
105°	92.4	92.6	92.7	92.9	92.7	92.6	92.4	92.1	92.0	92.0	92.0
107.5°	114.8	114.7	114.6	114.5	114.6	114.7	114.8	114.9	114.8	114.5	114.3
110°	129.7	129.5	129.3	129.2	129.3	129.5	129.7	129.8	129.8	129.4	129.1



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	144.8	144.8	144.8	144.7	144.8	144.8	144.8	144.9	144.7	144.3	143.9
115°	166.5	166.4	166.3	166.3	166.3	166.4	166.5	166.6	166.6	166.5	166.4
117.5°	188.7	188.5	188.2	188.0	188.2	188.5	188.7	189.0	189.1	189.1	189.2
120°	203.8	203.6	203.5	203.3	203.5	203.6	203.8	204.0	204.1	204.2	204.3
122.5°	218.7	218.4	218.2	217.9	218.2	218.4	218.7	219.0	219.1	219.4	219.6
125°	241.0	240.6	240.3	240.0	240.3	240.6	241.0	241.3	241.7	242.0	242.4
127.5°	263.1	262.7	262.3	261.9	262.3	262.7	263.1	263.5	263.9	264.4	264.9
130°	278.1	277.5	276.9	276.2	276.9	277.5	278.1	278.7	279.1	279.5	279.8
132.5°	292.7	292.1	291.7	291.2	291.7	292.1	292.7	293.1	293.5	293.9	294.4
135°	315.0	314.9	314.7	314.5	314.7	314.9	315.0	315.2	315.5	315.8	316.2
137.5°	336.0	335.7	335.4	335.0	335.4	335.7	336.0	336.3	336.7	337.1	337.4
140°	350.3	349.7	349.0	348.4	349.0	349.7	350.3	350.9	351.2	351.3	351.4
142.5°	363.6	363.1	362.7	362.1	362.7	363.1	363.6	364.0	364.3	364.4	364.5
145°	383.1	382.7	382.4	382.0	382.4	382.7	383.1	383.4	383.6	383.7	383.7
147.5°	401.2	400.6	400.1	399.6	400.1	400.6	401.2	401.7	402.0	402.0	402.0
150°	412.4	411.9	411.4	410.9	411.4	411.9	412.4	412.9	413.2	413.2	413.2
152.5°	423.2	422.7	422.2	421.8	422.2	422.7	423.2	423.6	423.8	423.6	423.4
155°	438.4	437.8	437.2	436.6	437.2	437.8	438.4	439.0	439.2	438.9	438.5
157.5°	451.6	451.1	450.6	450.1	450.6	451.1	451.6	452.0	452.1	451.8	451.4
160°	459.9	459.5	459.2	458.8	459.2	459.5	459.9	460.2	460.2	459.8	459.3
162.5°	467.1	466.5	466.0	465.4	466.0	466.5	467.1	467.6	467.7	467.3	466.8
165°	476.6	476.0	475.4	474.8	475.4	476.0	476.6	477.3	477.3	476.8	476.3
167.5°	484.5	484.0	483.5	482.8	483.5	484.0	484.5	485.0	485.0	484.5	484.0
170°	488.8	488.2	487.6	487.0	487.6	488.2	488.8	489.4	489.4	488.8	488.2
172.5°	491.9	491.3	490.7	490.1	490.7	491.3	491.9	492.5	492.5	492.0	491.5
175°	495.4	494.8	494.2	493.6	494.2	494.8	495.4	496.0	496.0	495.5	495.0
177.5°	496.9	496.5	495.9	495.4	495.9	496.5	496.9	497.4	497.4	497.1	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	7.4	7.1	7.1	6.7	6.4	5.9	5.3	5.3	5.1	5.5	5.3
90°	9.7	9.4	8.3	7.1	5.9	4.8	3.9	3.0	2.2	1.3	0.4
92.5°	15.2	15.0	14.4	13.7	13.1	12.4	11.8	11.2	10.6	10.1	9.5
95°	29.2	28.8	28.2	27.5	26.8	26.1	25.5	24.9	24.2	23.6	23.0
97.5°	45.5	45.2	44.7	44.2	43.7	43.1	42.7	42.3	41.8	41.3	40.9
100°	57.6	57.3	56.9	56.5	56.1	55.6	55.1	54.6	54.1	53.6	53.0
102.5°	71.4	71.1	70.5	69.9	69.4	68.8	68.4	68.0	67.8	67.4	67.1
105°	92.0	92.0	91.3	90.5	89.7	88.9	88.5	88.3	88.2	88.0	87.8
107.5°	114.0	113.7	113.4	113.0	112.8	112.4	112.3	112.1	112.0	111.9	111.8
110°	128.7	128.4	128.2	128.0	127.9	127.7	127.5	127.3	127.2	127.0	126.8



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	143.4	143.0	143.0	143.0	142.9	142.9	142.8	142.8	142.7	142.5	142.4
115°	166.3	166.3	166.4	166.6	166.8	166.9	166.9	166.6	166.3	166.1	165.8
117.5°	189.2	189.2	189.4	189.6	189.9	190.0	190.1	189.9	189.8	189.6	189.4
120°	204.4	204.5	204.9	205.3	205.8	206.2	206.1	205.6	205.1	204.6	204.1
122.5°	219.8	220.1	220.3	220.5	220.8	220.9	220.8	220.5	220.2	219.7	219.4
125°	242.7	243.1	243.2	243.4	243.6	243.7	243.7	243.5	243.2	243.0	242.7
127.5°	265.4	265.9	266.0	266.2	266.5	266.7	266.5	265.9	265.4	264.8	264.2
130°	280.2	280.5	280.8	281.0	281.3	281.5	281.4	280.7	280.0	279.3	278.6
132.5°	294.8	295.2	295.4	295.6	295.8	296.0	295.8	295.1	294.4	293.6	292.9
135°	316.5	316.8	316.9	317.0	317.1	317.2	316.9	316.4	315.9	315.4	314.9
137.5°	337.8	338.1	337.9	337.7	337.4	337.3	336.9	336.5	336.0	335.6	335.2
140°	351.5	351.5	351.5	351.4	351.3	351.2	350.9	350.5	350.1	349.7	349.2
142.5°	364.5	364.6	364.5	364.4	364.2	364.0	363.8	363.3	362.9	362.5	362.1
145°	383.8	383.9	383.7	383.4	383.1	382.9	382.7	382.5	382.4	382.2	382.0
147.5°	402.0	402.0	401.7	401.5	401.2	401.0	400.7	400.4	400.1	399.8	399.5
150°	413.2	413.2	413.0	412.8	412.7	412.5	412.3	412.2	412.0	411.8	411.6
152.5°	423.4	423.2	423.1	423.0	422.8	422.8	422.6	422.3	422.1	421.9	421.6
155°	438.2	437.8	437.7	437.6	437.6	437.5	437.4	437.4	437.4	437.4	437.4
157.5°	451.0	450.6	450.6	450.6	450.5	450.4	450.4	450.5	450.6	450.7	450.8
160°	458.9	458.5	458.5	458.5	458.5	458.5	458.6	458.7	458.9	459.1	459.3
162.5°	466.4	466.0	465.9	465.8	465.7	465.7	465.8	466.0	466.2	466.5	466.7
165°	475.8	475.3	475.3	475.3	475.3	475.3	475.4	475.6	475.9	476.1	476.4
167.5°	483.5	482.8	482.8	482.8	482.7	482.6	482.8	483.1	483.5	483.8	484.1
170°	487.6	487.0	487.0	487.0	487.0	487.0	487.2	487.5	487.8	488.2	488.5
172.5°	490.9	490.3	490.3	490.3	490.3	490.3	490.5	490.9	491.3	491.6	492.0
175°	494.5	494.0	494.0	494.0	494.0	494.0	494.1	494.5	494.8	495.2	495.5
177.5°	496.2	495.8	495.8	495.8	495.8	495.8	495.9	496.2	496.5	496.7	497.1
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	4.6	3.8	3.8	3.5	3.7	3.6	4.0	3.9	4.0	4.2	4.0
90°	1.3	2.2	3.0	3.9	4.8	5.9	7.1	8.3	9.4	9.7	10.1
92.5°	10.1	10.6	11.2	11.8	12.4	13.1	13.7	14.4	15.0	15.2	15.5
95°	23.6	24.2	24.9	25.5	26.1	26.8	27.5	28.2	28.8	29.2	29.5
97.5°	41.3	41.8	42.3	42.7	43.1	43.7	44.2	44.7	45.2	45.5	46.0
100°	53.6	54.1	54.6	55.1	55.6	56.1	56.5	56.9	57.3	57.6	57.9
102.5°	67.4	67.8	68.0	68.4	68.8	69.4	69.9	70.5	71.1	71.4	71.6
105°	88.0	88.2	88.3	88.5	88.9	89.7	90.5	91.3	92.0	92.0	92.0
107.5°	111.9	112.0	112.1	112.3	112.4	112.8	113.0	113.4	113.7	114.0	114.3
110°	127.0	127.2	127.3	127.5	127.7	127.9	128.0	128.2	128.4	128.7	129.1



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.5	142.7	142.8	142.8	142.9	142.9	143.0	143.0	143.0	143.4	143.9
115°	166.1	166.3	166.6	166.9	166.9	166.8	166.6	166.4	166.3	166.3	166.4
117.5°	189.6	189.8	189.9	190.1	190.0	189.9	189.6	189.4	189.2	189.2	189.2
120°	204.6	205.1	205.6	206.1	206.2	205.8	205.3	204.9	204.5	204.4	204.3
122.5°	219.7	220.2	220.5	220.8	220.9	220.8	220.5	220.3	220.1	219.8	219.6
125°	243.0	243.2	243.5	243.7	243.7	243.6	243.4	243.2	243.1	242.7	242.4
127.5°	264.8	265.4	265.9	266.5	266.7	266.5	266.2	266.0	265.9	265.4	264.9
130°	279.3	280.0	280.7	281.4	281.5	281.3	281.0	280.8	280.5	280.2	279.8
132.5°	293.6	294.4	295.1	295.8	296.0	295.8	295.6	295.4	295.2	294.8	294.4
135°	315.4	315.9	316.4	316.9	317.2	317.1	317.0	316.9	316.8	316.5	316.2
137.5°	335.6	336.0	336.5	336.9	337.3	337.4	337.7	337.9	338.1	337.8	337.4
140°	349.7	350.1	350.5	350.9	351.2	351.3	351.4	351.5	351.5	351.5	351.4
142.5°	362.5	362.9	363.3	363.8	364.0	364.2	364.4	364.5	364.6	364.5	364.5
145°	382.2	382.4	382.5	382.7	382.9	383.1	383.4	383.7	383.9	383.8	383.7
147.5°	399.8	400.1	400.4	400.7	401.0	401.2	401.5	401.7	402.0	402.0	402.0
150°	411.8	412.0	412.2	412.3	412.5	412.7	412.8	413.0	413.2	413.2	413.2
152.5°	421.9	422.1	422.3	422.6	422.8	422.8	423.0	423.1	423.2	423.4	423.4
155°	437.4	437.4	437.4	437.4	437.5	437.6	437.6	437.7	437.8	438.2	438.5
157.5°	450.7	450.6	450.5	450.4	450.4	450.5	450.6	450.6	450.6	451.0	451.4
160°	459.1	458.9	458.7	458.6	458.5	458.5	458.5	458.5	458.5	458.9	459.3
162.5°	466.5	466.2	466.0	465.8	465.7	465.7	465.8	465.9	466.0	466.4	466.8
165°	476.1	475.9	475.6	475.4	475.3	475.3	475.3	475.3	475.3	475.8	476.3
167.5°	483.8	483.5	483.1	482.8	482.6	482.7	482.8	482.8	482.8	483.5	484.0
170°	488.2	487.8	487.5	487.2	487.0	487.0	487.0	487.0	487.0	487.6	488.2
172.5°	491.6	491.3	490.9	490.5	490.3	490.3	490.3	490.3	490.3	490.9	491.5
175°	495.2	494.8	494.5	494.1	494.0	494.0	494.0	494.0	494.0	494.5	495.0
177.5°	496.7	496.5	496.2	495.9	495.8	495.8	495.8	495.8	495.8	496.2	496.6
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7	496.7



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-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°	4.0	4.0	4.0	4.0	3.9	4.2	4.0
90°	10.4	10.8	11.0	11.2	11.4	11.5	11.7
92.5°	15.8	16.1	16.2	16.1	15.9	15.8	15.8
95°	29.9	30.2	30.4	30.4	30.4	30.4	30.4
97.5°	46.4	46.8	46.9	46.9	46.9	46.8	46.8
100°	58.1	58.4	58.6	58.8	59.0	59.2	59.3
102.5°	71.9	72.2	72.2	72.2	72.2	72.2	72.1
105°	92.0	92.0	92.1	92.4	92.6	92.7	92.9
107.5°	114.5	114.8	114.9	114.8	114.7	114.6	114.5
110°	129.4	129.8	129.8	129.7	129.5	129.3	129.2



TEST NUMBER: P332391-935

CATALOG NUMBER: S123RDIW-S340D460U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	144.3	144.7	144.9	144.8	144.8	144.8	144.7
115°	166.5	166.6	166.6	166.5	166.4	166.3	166.3
117.5°	189.1	189.1	189.0	188.7	188.5	188.2	188.0
120°	204.2	204.1	204.0	203.8	203.6	203.5	203.3
122.5°	219.4	219.1	219.0	218.7	218.4	218.2	217.9
125°	242.0	241.7	241.3	241.0	240.6	240.3	240.0
127.5°	264.4	263.9	263.5	263.1	262.7	262.3	261.9
130°	279.5	279.1	278.7	278.1	277.5	276.9	276.2
132.5°	293.9	293.5	293.1	292.7	292.1	291.7	291.2
135°	315.8	315.5	315.2	315.0	314.9	314.7	314.5
137.5°	337.1	336.7	336.3	336.0	335.7	335.4	335.0
140°	351.3	351.2	350.9	350.3	349.7	349.0	348.4
142.5°	364.4	364.3	364.0	363.6	363.1	362.7	362.1
145°	383.7	383.6	383.4	383.1	382.7	382.4	382.0
147.5°	402.0	402.0	401.7	401.2	400.6	400.1	399.6
150°	413.2	413.2	412.9	412.4	411.9	411.4	410.9
152.5°	423.6	423.8	423.6	423.2	422.7	422.2	421.8
155°	438.9	439.2	439.0	438.4	437.8	437.2	436.6
157.5°	451.8	452.1	452.0	451.6	451.1	450.6	450.1
160°	459.8	460.2	460.2	459.9	459.5	459.2	458.8
162.5°	467.3	467.7	467.6	467.1	466.5	466.0	465.4
165°	476.8	477.3	477.3	476.6	476.0	475.4	474.8
167.5°	484.5	485.0	485.0	484.5	484.0	483.5	482.8
170°	488.8	489.4	489.4	488.8	488.2	487.6	487.0
172.5°	492.0	492.5	492.5	491.9	491.3	490.7	490.1
175°	495.5	496.0	496.0	495.4	494.8	494.2	493.6
177.5°	497.1	497.4	497.4	496.9	496.5	495.9	495.4
180°	496.7	496.7	496.7	496.7	496.7	496.7	496.7

(END OF REPORT)