

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: P332390-935

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332390-935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
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-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 460 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2756.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 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: General Diffuse

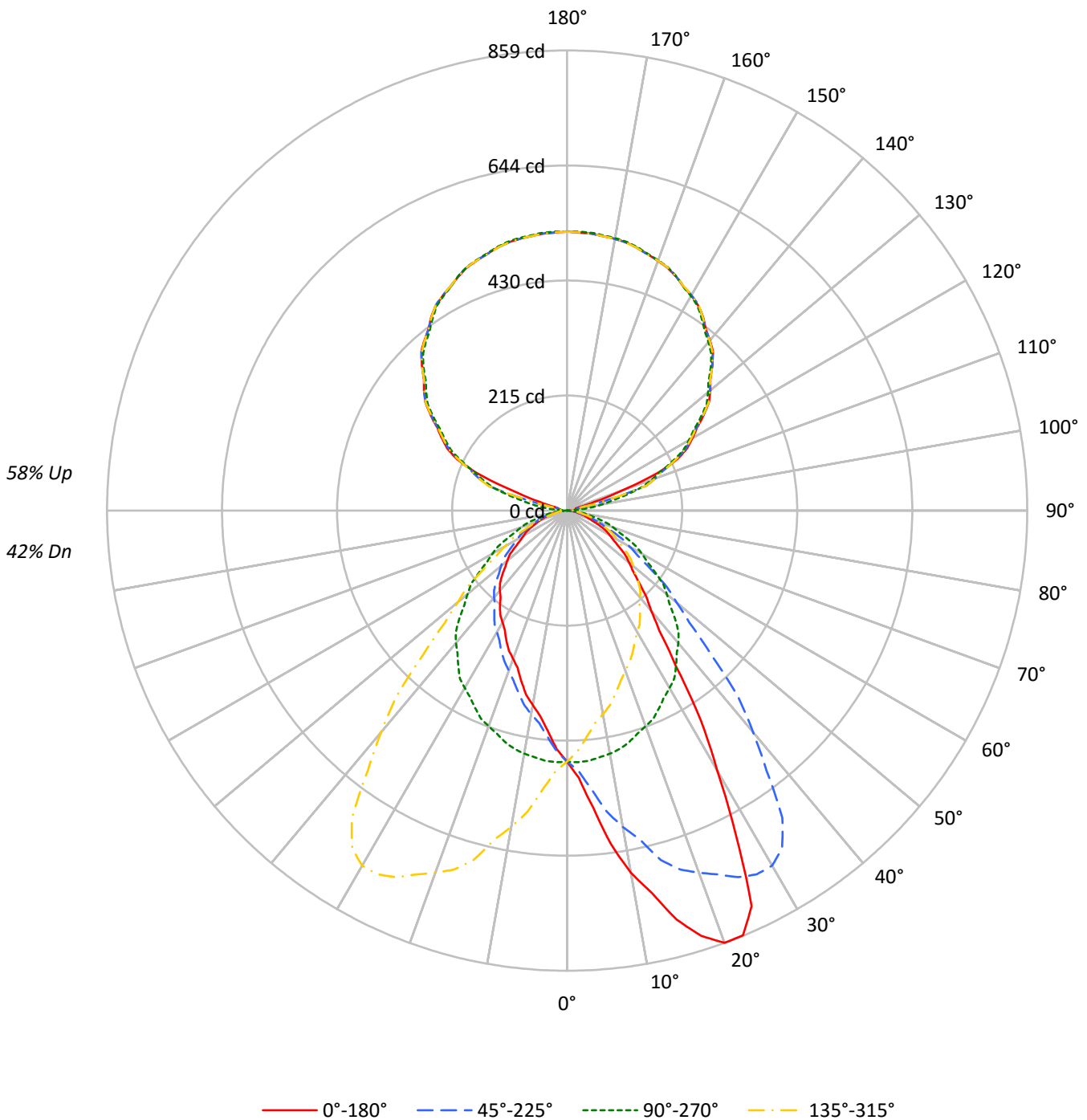
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot



58% Up

42% Dn



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**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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	97	92	89	86	88	85	82	79	70	68	66	57	55	54	44	43	42	37
2	88	81	76	71	81	75	70	65	62	58	55	50	48	46	39	38	36	32
3	81	72	65	59	74	66	60	55	55	51	47	45	42	39	35	33	32	27
4	74	64	56	51	68	59	52	47	49	44	40	40	37	34	32	30	28	24
5	68	57	49	44	62	53	46	41	44	39	35	36	33	30	29	26	24	21
6	63	51	44	38	57	47	41	36	40	35	31	33	29	26	26	24	22	19
7	58	46	39	33	53	43	36	31	36	31	27	30	26	23	24	21	19	17
8	54	42	35	30	49	39	32	28	33	28	24	28	24	21	22	20	17	15
9	50	39	31	26	46	36	29	25	30	25	22	25	22	19	21	18	16	14
10	47	35	28	24	43	33	27	22	28	23	20	23	20	17	19	16	14	12

**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



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.1	1.7
10°-20°	144.0	5.2
20°-30°	226.2	8.2
30°-40°	236.0	8.6
40°-50°	201.9	7.3
50°-60°	153.9	5.6
60°-70°	98.7	3.6
70°-80°	47.5	1.7
80°-90°	14.0	0.5
90°-100°	18.9	0.7
100°-110°	90.2	3.3
110°-120°	216.7	7.9
120°-130°	276.0	10.0
130°-140°	294.8	10.7
140°-150°	275.7	10.0
150°-160°	222.4	8.1
160°-170°	143.5	5.2
170°-180°	49.5	1.8
0°-30°	416.2	15.1
0°-40°	652.2	23.7
0°-60°	1008.0	36.6
0°-90°	1168.2	42.4
90°-120°	325.9	11.8
90°-150°	1172.4	42.5
90°-180°	1588.0	57.6
0°-180°	2756.0	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	5
95°	15	24	15	24	15	12
105°	17	115	17	115	17	39
115°	228	216	228	216	228	210
125°	311	305	311	305	311	278
135°	383	379	383	379	383	296
145°	442	438	442	438	442	276
155°	482	482	482	482	482	222
165°	508	509	508	509	508	143
175°	519	521	519	521	519	49
180°	521	521	521	521	521	



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**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	4.1	4.0	3.9
90°	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0	9.6	9.3	8.2
92.5°	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0	10.4	9.9	9.0
95°	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2	12.6	12.0	11.0
97.5°	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9	13.2	12.5	18.7
100°	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1	13.4	12.7	26.2
102.5°	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2	23.3	25.5	40.1
105°	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2	69.5	84.7	92.5
107.5°	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9	144.1	155.2	154.0
110°	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8	171.6	174.4	173.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1	194.0	194.0	193.0
115°	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8	222.9	222.1	221.3
117.5°	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6	249.9	249.3	248.9
120°	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3	267.6	266.9	266.7
122.5°	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5	285.0	284.6	284.2
125°	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8	309.6	309.4	309.1
127.5°	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2	333.9	333.6	333.2
130°	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8	348.4	348.1	347.8
132.5°	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7	362.4	362.1	361.8
135°	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8	383.6	383.3	383.0
137.5°	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7	402.3	401.8	401.7
140°	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6	414.2	413.9	413.6
142.5°	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9	425.6	425.3	425.1
145°	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7	441.5	441.3	441.2
147.5°	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9	455.7	455.6	455.4
150°	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5	464.3	464.2	464.0
152.5°	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3	471.9	471.7	471.5
155°	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8	482.4	482.0	481.9
157.5°	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1	491.5	491.0	491.1
160°	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3	496.8	496.3	496.4
162.5°	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1	501.5	500.9	501.0
165°	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5	507.8	507.1	507.2
167.5°	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5	512.8	512.1	512.1
170°	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3	515.6	514.9	514.9
172.5°	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1	517.4	516.7	516.7
175°	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3	519.7	519.1	519.0
177.5°	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2	520.6	520.0	520.0
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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**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	3.8	2.9	2.1	1.2	0.3	1.2	2.1	2.9
92.5°	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2	7.0	6.7	6.5
95°	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6	20.1	16.5	13.0
97.5°	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4	45.8	44.3	42.7
100°	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3	67.1	68.8	70.5
102.5°	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8	87.0	88.3	89.5
105°	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3	116.2	117.2	118.1
107.5°	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4	147.1	147.9	148.6
110°	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1	167.8	168.5	169.2





TEST NUMBER: P332390-935

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9	187.5	188.1	188.7
115°	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2	216.7	217.2	217.7
117.5°	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6	245.3	245.9	246.5
120°	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3	263.0	263.8	264.6
122.5°	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3	280.9	281.5	282.1
125°	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8	305.5	306.2	306.9
127.5°	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6	329.3	330.0	330.7
130°	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5	344.2	344.9	345.6
132.5°	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7	358.4	359.1	359.8
135°	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4	380.0	380.5	381.0
137.5°	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0	398.7	399.3	400.0
140°	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4	411.0	411.5	412.0
142.5°	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9	422.4	422.9	423.4
145°	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9	438.5	439.1	439.7
147.5°	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0	453.4	453.7	454.2
150°	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3	462.5	462.8	463.0
152.5°	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6	470.7	470.9	471.0
155°	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3	482.2	482.0	481.9
157.5°	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5	491.5	491.5	491.5
160°	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1	497.0	496.9	496.8
162.5°	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3	502.1	501.9	501.7
165°	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7	508.4	508.2	507.9
167.5°	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7	513.3	513.0	512.6
170°	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4	516.1	515.7	515.4
172.5°	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2	517.9	517.5	517.0
175°	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6	520.2	519.8	519.4
177.5°	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2	520.9	520.6	520.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332390-935

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

**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	6.3	6.7	7.1	7.1	7.4	7.5	7.7	7.7	7.8
90°	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0	10.3	10.7	10.9
92.5°	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0	11.5	12.1	12.4
95°	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2	13.8	14.4	14.7
97.5°	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9	14.6	15.2	15.6
100°	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1	14.8	15.5	15.9
102.5°	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2	19.0	17.0	15.9
105°	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2	39.1	23.8	16.4
107.5°	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9	121.8	110.6	99.4
110°	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8	165.9	163.1	155.6



TEST NUMBER: P332390-935

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1	194.1	194.2	192.9
115°	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8	224.6	225.5	226.1
117.5°	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6	251.3	252.0	252.4
120°	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3	269.0	269.7	270.0
122.5°	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5	286.0	286.5	286.7
125°	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8	310.0	310.1	310.3
127.5°	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2	334.4	334.7	334.8
130°	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8	349.1	349.5	349.6
132.5°	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7	363.1	363.4	363.5
135°	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8	384.1	384.4	384.4
137.5°	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7	403.0	403.5	403.6
140°	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6	414.9	415.3	415.3
142.5°	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9	426.2	426.5	426.5
145°	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7	441.9	442.0	442.1
147.5°	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9	456.1	456.2	456.1
150°	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5	464.7	464.9	464.9
152.5°	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3	472.5	472.9	472.8
155°	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8	483.3	483.7	483.6
157.5°	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1	492.6	493.1	493.0
160°	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3	497.8	498.3	498.3
162.5°	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1	502.7	503.3	503.3
165°	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5	509.2	509.9	509.9
167.5°	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5	514.1	514.8	514.8
170°	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3	516.9	517.6	517.6
172.5°	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1	518.8	519.4	519.4
175°	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3	520.9	521.5	521.5
177.5°	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2	521.7	522.3	522.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332390-935

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

**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	7.8	7.9	8.1	7.9	7.8	8.2	7.8	7.7	7.7	7.5
90°	11.1	11.3	11.5	11.6	11.5	11.3	11.1	10.9	10.7	10.3	10.0
92.5°	12.6	12.7	12.7	12.8	12.7	12.7	12.6	12.4	12.1	11.5	11.0
95°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.4	13.8	13.2
97.5°	15.7	15.8	15.8	15.9	15.8	15.8	15.7	15.6	15.2	14.6	13.9
100°	16.0	16.1	16.2	16.3	16.2	16.1	16.0	15.9	15.5	14.8	14.1
102.5°	16.1	16.3	16.4	16.5	16.4	16.3	16.1	15.9	17.0	19.0	21.2
105°	16.5	16.7	16.9	17.0	16.9	16.7	16.5	16.4	23.8	39.1	54.2
107.5°	87.8	76.4	64.9	53.5	64.9	76.4	87.8	99.4	110.6	121.8	132.9
110°	143.3	131.0	118.6	106.4	118.6	131.0	143.3	155.6	163.1	165.9	168.8



TEST NUMBER: P332390-935

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	190.3	187.7	185.1	182.5	185.1	187.7	190.3	192.9	194.2	194.1	194.1
115°	226.4	226.8	227.1	227.5	227.1	226.8	226.4	226.1	225.5	224.6	223.8
117.5°	252.4	252.5	252.6	252.7	252.6	252.5	252.4	252.4	252.0	251.3	250.6
120°	270.0	270.0	270.0	270.0	270.0	270.0	270.0	270.0	269.7	269.0	268.3
122.5°	286.8	286.9	287.0	287.1	287.0	286.9	286.8	286.7	286.5	286.0	285.5
125°	310.5	310.6	310.8	311.0	310.8	310.6	310.5	310.3	310.1	310.0	309.8
127.5°	334.6	334.4	334.2	334.1	334.2	334.4	334.6	334.8	334.7	334.4	334.2
130°	349.4	349.2	349.0	348.9	349.0	349.2	349.4	349.6	349.5	349.1	348.8
132.5°	363.3	363.0	362.7	362.6	362.7	363.0	363.3	363.5	363.4	363.1	362.7
135°	384.1	383.8	383.6	383.3	383.6	383.8	384.1	384.4	384.4	384.1	383.8
137.5°	403.5	403.3	403.1	402.9	403.1	403.3	403.5	403.6	403.5	403.0	402.7
140°	415.2	415.0	414.8	414.7	414.8	415.0	415.2	415.3	415.3	414.9	414.6
142.5°	426.2	426.0	425.8	425.5	425.8	426.0	426.2	426.5	426.5	426.2	425.9
145°	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.1	442.0	441.9	441.7
147.5°	455.7	455.3	455.0	454.5	455.0	455.3	455.7	456.1	456.2	456.1	455.9
150°	464.6	464.3	464.1	463.8	464.1	464.3	464.6	464.9	464.9	464.7	464.5
152.5°	472.4	472.0	471.7	471.2	471.7	472.0	472.4	472.8	472.9	472.5	472.3
155°	483.1	482.6	482.1	481.6	482.1	482.6	483.1	483.6	483.7	483.3	482.8
157.5°	492.3	491.7	491.0	490.3	491.0	491.7	492.3	493.0	493.1	492.6	492.1
160°	497.7	497.1	496.5	495.9	496.5	497.1	497.7	498.3	498.3	497.8	497.3
162.5°	502.7	502.2	501.7	501.2	501.7	502.2	502.7	503.3	503.3	502.7	502.1
165°	509.3	508.8	508.2	507.6	508.2	508.8	509.3	509.9	509.9	509.2	508.5
167.5°	514.1	513.5	512.8	512.1	512.8	513.5	514.1	514.8	514.8	514.1	513.5
170°	516.9	516.3	515.6	514.9	515.6	516.3	516.9	517.6	517.6	516.9	516.3
172.5°	518.7	517.9	517.2	516.4	517.2	517.9	518.7	519.4	519.4	518.8	518.1
175°	520.8	520.1	519.4	518.8	519.4	520.1	520.8	521.5	521.5	520.9	520.3
177.5°	521.5	520.8	520.1	519.4	520.1	520.8	521.5	522.2	522.3	521.7	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332390-935

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

**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	6.3	5.9	5.3	5.3	5.1	5.5	5.3
90°	9.6	9.3	8.2	7.1	5.9	4.8	3.8	2.9	2.1	1.2	0.3
92.5°	10.4	9.9	9.0	8.2	7.4	6.5	6.2	6.5	6.7	7.0	7.2
95°	12.6	12.0	11.0	10.1	9.1	8.2	9.5	13.0	16.5	20.1	23.6
97.5°	13.2	12.5	18.7	24.8	31.0	37.2	41.1	42.7	44.3	45.8	47.4
100°	13.4	12.7	26.2	39.6	53.0	66.4	72.2	70.5	68.8	67.1	65.3
102.5°	23.3	25.5	40.1	54.8	69.4	84.0	90.7	89.5	88.3	87.0	85.8
105°	69.5	84.7	92.5	100.2	107.9	115.6	119.1	118.1	117.2	116.2	115.3
107.5°	144.1	155.2	154.0	152.8	151.6	150.4	149.4	148.6	147.9	147.1	146.4
110°	171.6	174.4	173.5	172.5	171.6	170.7	169.9	169.2	168.5	167.8	167.1



TEST NUMBER: P332390-935

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	194.0	194.0	193.0	192.1	191.1	190.2	189.4	188.7	188.1	187.5	186.9
115°	222.9	222.1	221.3	220.5	219.7	219.0	218.3	217.7	217.2	216.7	216.2
117.5°	249.9	249.3	248.9	248.5	248.1	247.7	247.2	246.5	245.9	245.3	244.6
120°	267.6	266.9	266.7	266.4	266.1	265.9	265.4	264.6	263.8	263.0	262.3
122.5°	285.0	284.6	284.2	283.9	283.6	283.3	282.8	282.1	281.5	280.9	280.3
125°	309.6	309.4	309.1	308.8	308.4	308.1	307.5	306.9	306.2	305.5	304.8
127.5°	333.9	333.6	333.2	332.8	332.3	331.9	331.4	330.7	330.0	329.3	328.6
130°	348.4	348.1	347.8	347.5	347.2	346.8	346.3	345.6	344.9	344.2	343.5
132.5°	362.4	362.1	361.8	361.5	361.3	360.9	360.5	359.8	359.1	358.4	357.7
135°	383.6	383.3	383.0	382.6	382.3	381.9	381.5	381.0	380.5	380.0	379.4
137.5°	402.3	401.8	401.7	401.5	401.3	401.1	400.6	400.0	399.3	398.7	398.0
140°	414.2	413.9	413.6	413.4	413.1	412.8	412.5	412.0	411.5	411.0	410.4
142.5°	425.6	425.3	425.1	424.8	424.6	424.3	424.0	423.4	422.9	422.4	421.9
145°	441.5	441.3	441.2	441.0	440.8	440.7	440.3	439.7	439.1	438.5	437.9
147.5°	455.7	455.6	455.4	455.2	455.0	454.9	454.5	454.2	453.7	453.4	453.0
150°	464.3	464.2	464.0	463.8	463.6	463.5	463.3	463.0	462.8	462.5	462.3
152.5°	471.9	471.7	471.5	471.4	471.3	471.2	471.1	471.0	470.9	470.7	470.6
155°	482.4	482.0	481.9	481.8	481.7	481.6	481.7	481.9	482.0	482.2	482.3
157.5°	491.5	491.0	491.1	491.2	491.3	491.4	491.5	491.5	491.5	491.5	491.5
160°	496.8	496.3	496.4	496.5	496.5	496.6	496.7	496.8	496.9	497.0	497.1
162.5°	501.5	500.9	501.0	501.1	501.2	501.3	501.4	501.7	501.9	502.1	502.3
165°	507.8	507.1	507.2	507.3	507.4	507.5	507.6	507.9	508.2	508.4	508.7
167.5°	512.8	512.1	512.1	512.1	512.1	512.1	512.3	512.6	513.0	513.3	513.7
170°	515.6	514.9	514.9	514.9	514.9	514.9	515.1	515.4	515.7	516.1	516.4
172.5°	517.4	516.7	516.7	516.6	516.5	516.4	516.6	517.0	517.5	517.9	518.2
175°	519.7	519.1	519.0	518.9	518.8	518.8	518.9	519.4	519.8	520.2	520.6
177.5°	520.6	520.0	520.0	519.9	519.9	519.8	519.9	520.2	520.6	520.9	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



TEST NUMBER: P332390-935

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

**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	4.1	4.0
90°	1.2	2.1	2.9	3.8	4.8	5.9	7.1	8.2	9.3	9.6	10.0
92.5°	7.0	6.7	6.5	6.2	6.5	7.4	8.2	9.0	9.9	10.4	11.0
95°	20.1	16.5	13.0	9.5	8.2	9.1	10.1	11.0	12.0	12.6	13.2
97.5°	45.8	44.3	42.7	41.1	37.2	31.0	24.8	18.7	12.5	13.2	13.9
100°	67.1	68.8	70.5	72.2	66.4	53.0	39.6	26.2	12.7	13.4	14.1
102.5°	87.0	88.3	89.5	90.7	84.0	69.4	54.8	40.1	25.5	23.3	21.2
105°	116.2	117.2	118.1	119.1	115.6	107.9	100.2	92.5	84.7	69.5	54.2
107.5°	147.1	147.9	148.6	149.4	150.4	151.6	152.8	154.0	155.2	144.1	132.9
110°	167.8	168.5	169.2	169.9	170.7	171.6	172.5	173.5	174.4	171.6	168.8





TEST NUMBER: P332390-935

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	187.5	188.1	188.7	189.4	190.2	191.1	192.1	193.0	194.0	194.0	194.1
115°	216.7	217.2	217.7	218.3	219.0	219.7	220.5	221.3	222.1	222.9	223.8
117.5°	245.3	245.9	246.5	247.2	247.7	248.1	248.5	248.9	249.3	249.9	250.6
120°	263.0	263.8	264.6	265.4	265.9	266.1	266.4	266.7	266.9	267.6	268.3
122.5°	280.9	281.5	282.1	282.8	283.3	283.6	283.9	284.2	284.6	285.0	285.5
125°	305.5	306.2	306.9	307.5	308.1	308.4	308.8	309.1	309.4	309.6	309.8
127.5°	329.3	330.0	330.7	331.4	331.9	332.3	332.8	333.2	333.6	333.9	334.2
130°	344.2	344.9	345.6	346.3	346.8	347.2	347.5	347.8	348.1	348.4	348.8
132.5°	358.4	359.1	359.8	360.5	360.9	361.3	361.5	361.8	362.1	362.4	362.7
135°	380.0	380.5	381.0	381.5	381.9	382.3	382.6	383.0	383.3	383.6	383.8
137.5°	398.7	399.3	400.0	400.6	401.1	401.3	401.5	401.7	401.8	402.3	402.7
140°	411.0	411.5	412.0	412.5	412.8	413.1	413.4	413.6	413.9	414.2	414.6
142.5°	422.4	422.9	423.4	424.0	424.3	424.6	424.8	425.1	425.3	425.6	425.9
145°	438.5	439.1	439.7	440.3	440.7	440.8	441.0	441.2	441.3	441.5	441.7
147.5°	453.4	453.7	454.2	454.5	454.9	455.0	455.2	455.4	455.6	455.7	455.9
150°	462.5	462.8	463.0	463.3	463.5	463.6	463.8	464.0	464.2	464.3	464.5
152.5°	470.7	470.9	471.0	471.1	471.2	471.3	471.4	471.5	471.7	471.9	472.3
155°	482.2	482.0	481.9	481.7	481.6	481.7	481.8	481.9	482.0	482.4	482.8
157.5°	491.5	491.5	491.5	491.5	491.4	491.3	491.2	491.1	491.0	491.5	492.1
160°	497.0	496.9	496.8	496.7	496.6	496.5	496.5	496.4	496.3	496.8	497.3
162.5°	502.1	501.9	501.7	501.4	501.3	501.2	501.1	501.0	500.9	501.5	502.1
165°	508.4	508.2	507.9	507.6	507.5	507.4	507.3	507.2	507.1	507.8	508.5
167.5°	513.3	513.0	512.6	512.3	512.1	512.1	512.1	512.1	512.1	512.8	513.5
170°	516.1	515.7	515.4	515.1	514.9	514.9	514.9	514.9	514.9	515.6	516.3
172.5°	517.9	517.5	517.0	516.6	516.4	516.5	516.6	516.7	516.7	517.4	518.1
175°	520.2	519.8	519.4	518.9	518.8	518.8	518.9	519.0	519.1	519.7	520.3
177.5°	520.9	520.6	520.2	519.9	519.8	519.9	519.9	520.0	520.0	520.6	521.2
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6	520.6



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**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°	10.3	10.7	10.9	11.1	11.3	11.5	11.6
92.5°	11.5	12.1	12.4	12.6	12.7	12.7	12.8
95°	13.8	14.4	14.7	14.7	14.7	14.7	14.7
97.5°	14.6	15.2	15.6	15.7	15.8	15.8	15.9
100°	14.8	15.5	15.9	16.0	16.1	16.2	16.3
102.5°	19.0	17.0	15.9	16.1	16.3	16.4	16.5
105°	39.1	23.8	16.4	16.5	16.7	16.9	17.0
107.5°	121.8	110.6	99.4	87.8	76.4	64.9	53.5
110°	165.9	163.1	155.6	143.3	131.0	118.6	106.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	194.1	194.2	192.9	190.3	187.7	185.1	182.5
115°	224.6	225.5	226.1	226.4	226.8	227.1	227.5
117.5°	251.3	252.0	252.4	252.4	252.5	252.6	252.7
120°	269.0	269.7	270.0	270.0	270.0	270.0	270.0
122.5°	286.0	286.5	286.7	286.8	286.9	287.0	287.1
125°	310.0	310.1	310.3	310.5	310.6	310.8	311.0
127.5°	334.4	334.7	334.8	334.6	334.4	334.2	334.1
130°	349.1	349.5	349.6	349.4	349.2	349.0	348.9
132.5°	363.1	363.4	363.5	363.3	363.0	362.7	362.6
135°	384.1	384.4	384.4	384.1	383.8	383.6	383.3
137.5°	403.0	403.5	403.6	403.5	403.3	403.1	402.9
140°	414.9	415.3	415.3	415.2	415.0	414.8	414.7
142.5°	426.2	426.5	426.5	426.2	426.0	425.8	425.5
145°	441.9	442.0	442.1	442.1	442.1	442.1	442.1
147.5°	456.1	456.2	456.1	455.7	455.3	455.0	454.5
150°	464.7	464.9	464.9	464.6	464.3	464.1	463.8
152.5°	472.5	472.9	472.8	472.4	472.0	471.7	471.2
155°	483.3	483.7	483.6	483.1	482.6	482.1	481.6
157.5°	492.6	493.1	493.0	492.3	491.7	491.0	490.3
160°	497.8	498.3	498.3	497.7	497.1	496.5	495.9
162.5°	502.7	503.3	503.3	502.7	502.2	501.7	501.2
165°	509.2	509.9	509.9	509.3	508.8	508.2	507.6
167.5°	514.1	514.8	514.8	514.1	513.5	512.8	512.1
170°	516.9	517.6	517.6	516.9	516.3	515.6	514.9
172.5°	518.8	519.4	519.4	518.7	517.9	517.2	516.4
175°	520.9	521.5	521.5	520.8	520.1	519.4	518.8
177.5°	521.7	522.3	522.2	521.5	520.8	520.1	519.4
180°	520.6	520.6	520.6	520.6	520.6	520.6	520.6

(END OF REPORT)