

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: P332246-935

Luminaire Tested: **S123RDIP-S340D585U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332246-935  
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: S123RDIP-S340D585U935-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3184.3 lumens  
Efficiency: N/A  
Efficacy: 124.4 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

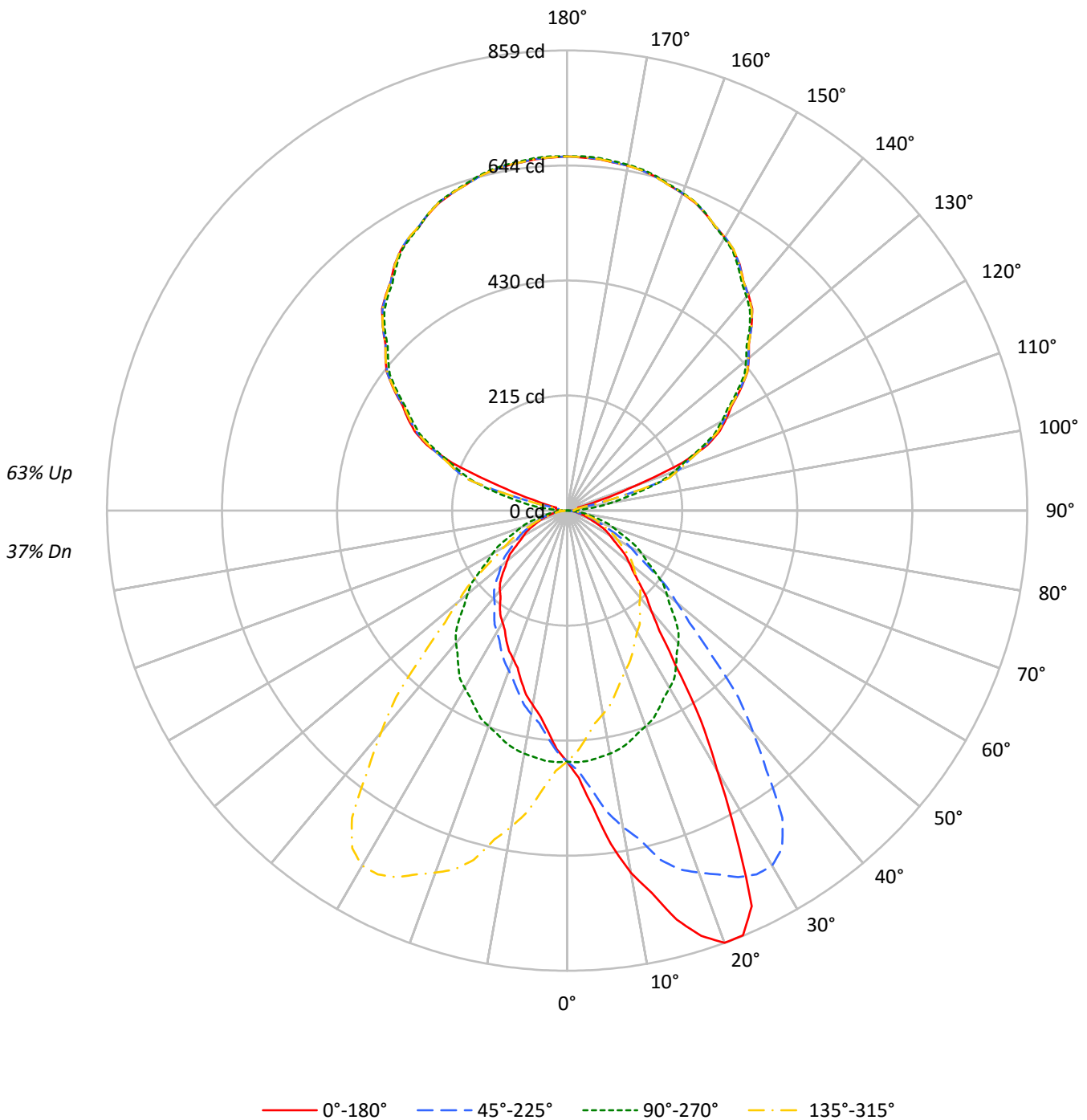
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	39	39	38	32
2	87	80	74	69	79	73	68	64	59	56	53	47	44	42	35	34	33	27
3	80	71	64	58	72	64	59	54	53	48	45	42	39	36	32	30	28	24
4	73	63	55	50	66	57	51	46	47	42	39	37	34	31	28	26	25	21
5	67	56	48	43	61	51	45	40	42	37	33	34	30	27	26	24	22	18
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	38	33	52	42	35	30	35	30	26	28	24	21	22	19	17	14
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	17	15	13
9	49	38	30	26	45	35	28	24	29	24	21	23	20	17	18	16	14	12
10	46	34	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13	11

**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	1.4
10°-20°	144.0	4.5
20°-30°	226.2	7.1
30°-40°	236.0	7.4
40°-50°	201.9	6.3
50°-60°	153.9	4.8
60°-70°	98.7	3.1
70°-80°	47.5	1.5
80°-90°	14.4	0.5
90°-100°	24.0	0.8
100°-110°	114.5	3.6
110°-120°	275.1	8.6
120°-130°	350.3	11.0
130°-140°	374.3	11.8
140°-150°	350.0	11.0
150°-160°	282.3	8.9
160°-170°	182.2	5.7
170°-180°	62.8	2.0
0°-30°	416.2	13.1
0°-40°	652.2	20.5
0°-60°	1008.0	31.7
0°-90°	1168.6	36.7
90°-120°	413.7	13.0
90°-150°	1488.3	46.7
90°-180°	2016.0	63.3
0°-180°	3184.3	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°	15	0	15	0	15	7
95°	19	30	19	30	19	16
105°	22	146	22	146	22	49
115°	289	274	289	274	289	267
125°	395	387	395	387	395	353
135°	487	482	487	482	487	375
145°	561	556	561	556	561	350
155°	611	612	611	612	611	282
165°	644	646	644	646	644	182
175°	658	661	658	661	658	63
180°	661	661	661	661	661	



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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°	4.6	4.8	4.5	4.6	4.6	4.6	4.6	4.5	4.6	4.5	4.3
90°	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7	12.2	11.8	10.3
92.5°	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9	13.3	12.6	11.5
95°	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8	16.0	15.2	14.0
97.5°	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6	16.7	15.8	23.7
100°	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9	17.0	16.2	33.2
102.5°	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9	29.6	32.3	50.9
105°	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9	88.3	107.5	117.4
107.5°	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8	183.0	197.1	195.5
110°	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3	217.8	221.4	220.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3	246.3	246.2	245.0
115°	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0	283.0	281.9	280.9
117.5°	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2	317.4	316.4	316.0
120°	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6	339.8	338.8	338.5
122.5°	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5	361.9	361.3	360.8
125°	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3	393.0	392.9	392.4
127.5°	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2	423.9	423.5	423.0
130°	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8	442.4	442.0	441.5
132.5°	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5	460.1	459.7	459.3
135°	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3	487.0	486.6	486.2
137.5°	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2	510.7	510.1	509.9
140°	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3	525.9	525.5	525.1
142.5°	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7	540.4	540.0	539.7
145°	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8	560.5	560.3	560.1
147.5°	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8	578.5	578.3	578.1
150°	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7	589.5	589.3	589.1
152.5°	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5	599.1	598.7	598.6
155°	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9	612.4	611.9	611.7
157.5°	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7	624.1	623.4	623.5
160°	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4	630.7	630.1	630.2
162.5°	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4	636.7	635.9	636.0
165°	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6	644.7	643.8	643.9
167.5°	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9	651.0	650.1	650.1
170°	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4	654.5	653.6	653.6
172.5°	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7	656.9	656.0	655.9
175°	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6	659.8	659.0	658.9
177.5°	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6	660.9	660.2	660.1
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



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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°	4.4	3.9	4.0	3.7	4.0	3.9	4.6	5.3	5.6	5.2	5.4
90°	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5	1.5	2.7	3.8
92.5°	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1	8.9	8.5	8.2
95°	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0	25.5	21.0	16.5
97.5°	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2	58.2	56.2	54.2
100°	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0	85.2	87.4	89.5
102.5°	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9	110.5	112.1	113.7
105°	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4	147.6	148.8	149.9
107.5°	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8	186.8	187.8	188.7
110°	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2	213.0	213.9	214.7





TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3	238.1	238.8	239.6
115°	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5	275.2	275.8	276.5
117.5°	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6	311.3	312.2	313.0
120°	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9	333.9	334.9	335.9
122.5°	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8	356.5	357.3	358.2
125°	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9	387.9	388.7	389.6
127.5°	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2	418.1	419.0	419.8
130°	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1	437.0	437.8	438.7
132.5°	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2	455.0	455.9	456.8
135°	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7	482.4	483.0	483.7
137.5°	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3	506.2	507.0	507.8
140°	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0	521.7	522.4	523.0
142.5°	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5	536.2	536.9	537.5
145°	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9	556.6	557.4	558.2
147.5°	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1	575.6	576.1	576.5
150°	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9	587.2	587.5	587.8
152.5°	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4	597.6	597.7	597.9
155°	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3	612.2	611.9	611.7
157.5°	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0	624.0	623.9	623.9
160°	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0	630.9	630.9	630.7
162.5°	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7	637.4	637.1	636.9
165°	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8	645.4	645.1	644.8
167.5°	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0	651.6	651.2	650.7
170°	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6	655.1	654.7	654.3
172.5°	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0	657.5	656.9	656.3
175°	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0	660.5	659.9	659.4
177.5°	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8	661.3	660.9	660.5
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-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°	5.4	6.2	6.6	7.1	7.5	7.7	7.9	8.0	8.3	8.4	8.4
90°	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7	13.1	13.5	13.9
92.5°	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9	14.6	15.3	15.8
95°	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8	17.5	18.3	18.7
97.5°	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6	18.4	19.3	19.8
100°	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9	18.9	19.7	20.1
102.5°	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9	24.2	21.5	20.2
105°	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9	49.6	30.3	20.8
107.5°	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8	154.6	140.4	126.1
110°	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3	210.7	207.1	197.4



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3	246.4	246.5	244.9
115°	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0	285.2	286.3	287.0
117.5°	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2	319.1	319.9	320.5
120°	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6	341.5	342.3	342.8
122.5°	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5	363.1	363.7	364.0
125°	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3	393.5	393.7	394.0
127.5°	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2	424.6	424.9	425.0
130°	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8	443.2	443.7	443.8
132.5°	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5	461.0	461.4	461.5
135°	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3	487.7	487.9	487.9
137.5°	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2	511.7	512.2	512.4
140°	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3	526.8	527.2	527.3
142.5°	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7	541.1	541.4	541.4
145°	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8	560.9	561.2	561.3
147.5°	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8	578.9	579.2	579.0
150°	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7	590.0	590.1	590.1
152.5°	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5	599.9	600.3	600.2
155°	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9	613.5	614.1	614.0
157.5°	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7	625.3	626.0	625.9
160°	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4	632.0	632.7	632.6
162.5°	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4	638.2	638.9	638.9
165°	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6	646.4	647.3	647.4
167.5°	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9	652.7	653.6	653.6
170°	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4	656.3	657.1	657.1
172.5°	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7	658.6	659.4	659.4
175°	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6	661.3	662.1	662.0
177.5°	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6	662.3	663.0	662.9
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-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°	8.8	8.4	8.5	8.7	8.5	8.4	8.8	8.4	8.4	8.3	8.0
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.5	13.1	12.7
92.5°	15.9	16.0	16.2	16.3	16.2	16.0	15.9	15.8	15.3	14.6	13.9
95°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.7	18.3	17.5	16.8
97.5°	19.9	20.0	20.1	20.2	20.1	20.0	19.9	19.8	19.3	18.4	17.6
100°	20.3	20.4	20.5	20.7	20.5	20.4	20.3	20.1	19.7	18.9	17.9
102.5°	20.4	20.7	20.8	21.0	20.8	20.7	20.4	20.2	21.5	24.2	26.9
105°	20.9	21.2	21.4	21.6	21.4	21.2	20.9	20.8	30.3	49.6	68.9
107.5°	111.5	96.9	82.4	67.8	82.4	96.9	111.5	126.1	140.4	154.6	168.8
110°	181.8	166.3	150.7	135.0	150.7	166.3	181.8	197.4	207.1	210.7	214.3



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.6	238.2	235.0	231.7	235.0	238.2	241.6	244.9	246.5	246.4	246.3
115°	287.4	287.9	288.3	288.8	288.3	287.9	287.4	287.0	286.3	285.2	284.0
117.5°	320.6	320.6	320.7	320.8	320.7	320.6	320.6	320.5	319.9	319.1	318.2
120°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.3	341.5	340.6
122.5°	364.1	364.2	364.3	364.4	364.3	364.2	364.1	364.0	363.7	363.1	362.5
125°	394.2	394.4	394.6	394.9	394.6	394.4	394.2	394.0	393.7	393.5	393.3
127.5°	424.7	424.6	424.3	424.1	424.3	424.6	424.7	425.0	424.9	424.6	424.2
130°	443.6	443.4	443.2	443.0	443.2	443.4	443.6	443.8	443.7	443.2	442.8
132.5°	461.2	460.8	460.5	460.2	460.5	460.8	461.2	461.5	461.4	461.0	460.5
135°	487.7	487.3	487.0	486.6	487.0	487.3	487.7	487.9	487.9	487.7	487.3
137.5°	512.1	512.0	511.7	511.5	511.7	512.0	512.1	512.4	512.2	511.7	511.2
140°	527.1	526.8	526.7	526.4	526.7	526.8	527.1	527.3	527.2	526.8	526.3
142.5°	541.1	540.8	540.4	540.2	540.4	540.8	541.1	541.4	541.4	541.1	540.7
145°	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.3	561.2	560.9	560.8
147.5°	578.5	578.0	577.6	577.0	577.6	578.0	578.5	579.0	579.2	578.9	578.8
150°	589.8	589.4	589.1	588.8	589.1	589.4	589.8	590.1	590.1	590.0	589.7
152.5°	599.8	599.3	598.7	598.2	598.7	599.3	599.8	600.2	600.3	599.9	599.5
155°	613.4	612.7	612.1	611.4	612.1	612.7	613.4	614.0	614.1	613.5	612.9
157.5°	625.0	624.2	623.4	622.5	623.4	624.2	625.0	625.9	626.0	625.3	624.7
160°	631.9	631.1	630.3	629.6	630.3	631.1	631.9	632.6	632.7	632.0	631.4
162.5°	638.3	637.6	636.9	636.3	636.9	637.6	638.3	638.9	638.9	638.2	637.4
165°	646.6	645.8	645.1	644.3	645.1	645.8	646.6	647.4	647.3	646.4	645.6
167.5°	652.7	651.9	651.0	650.1	651.0	651.9	652.7	653.6	653.6	652.7	651.9
170°	656.3	655.4	654.5	653.6	654.5	655.4	656.3	657.1	657.1	656.3	655.4
172.5°	658.5	657.5	656.5	655.6	656.5	657.5	658.5	659.4	659.4	658.6	657.7
175°	661.2	660.3	659.4	658.5	659.4	660.3	661.2	662.0	662.1	661.3	660.6
177.5°	662.0	661.2	660.3	659.4	660.3	661.2	662.0	662.9	663.0	662.3	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-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°	7.9	7.7	7.5	7.1	6.6	6.2	5.4	5.4	5.2	5.6	5.3
90°	12.2	11.8	10.3	9.0	7.5	6.1	4.8	3.8	2.7	1.5	0.5
92.5°	13.3	12.6	11.5	10.4	9.4	8.3	7.9	8.2	8.5	8.9	9.1
95°	16.0	15.2	14.0	12.8	11.6	10.4	12.1	16.5	21.0	25.5	30.0
97.5°	16.7	15.8	23.7	31.5	39.3	47.3	52.2	54.2	56.2	58.2	60.2
100°	17.0	16.2	33.2	50.3	67.2	84.3	91.7	89.5	87.4	85.2	83.0
102.5°	29.6	32.3	50.9	69.5	88.1	106.7	115.2	113.7	112.1	110.5	108.9
105°	88.3	107.5	117.4	127.2	137.0	146.8	151.1	149.9	148.8	147.6	146.4
107.5°	183.0	197.1	195.5	194.0	192.4	190.9	189.7	188.7	187.8	186.8	185.8
110°	217.8	221.4	220.2	219.0	217.8	216.7	215.6	214.7	213.9	213.0	212.2



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	246.3	246.2	245.0	243.8	242.6	241.4	240.4	239.6	238.8	238.1	237.3
115°	283.0	281.9	280.9	279.9	279.0	277.9	277.2	276.5	275.8	275.2	274.5
117.5°	317.4	316.4	316.0	315.5	315.0	314.4	313.7	313.0	312.2	311.3	310.6
120°	339.8	338.8	338.5	338.2	337.9	337.5	336.9	335.9	334.9	333.9	332.9
122.5°	361.9	361.3	360.8	360.4	360.0	359.6	359.0	358.2	357.3	356.5	355.8
125°	393.0	392.9	392.4	392.0	391.6	391.2	390.5	389.6	388.7	387.9	386.9
127.5°	423.9	423.5	423.0	422.5	421.9	421.4	420.7	419.8	419.0	418.1	417.2
130°	442.4	442.0	441.5	441.1	440.7	440.2	439.5	438.7	437.8	437.0	436.1
132.5°	460.1	459.7	459.3	458.9	458.6	458.2	457.6	456.8	455.9	455.0	454.2
135°	487.0	486.6	486.2	485.8	485.3	484.9	484.4	483.7	483.0	482.4	481.7
137.5°	510.7	510.1	509.9	509.6	509.4	509.2	508.6	507.8	507.0	506.2	505.3
140°	525.9	525.5	525.1	524.8	524.4	524.2	523.7	523.0	522.4	521.7	521.0
142.5°	540.4	540.0	539.7	539.3	539.0	538.6	538.2	537.5	536.9	536.2	535.5
145°	560.5	560.3	560.1	559.9	559.6	559.5	559.0	558.2	557.4	556.6	555.9
147.5°	578.5	578.3	578.1	577.8	577.6	577.4	577.0	576.5	576.1	575.6	575.1
150°	589.5	589.3	589.1	588.8	588.7	588.4	588.1	587.8	587.5	587.2	586.9
152.5°	599.1	598.7	598.6	598.5	598.3	598.2	598.1	597.9	597.7	597.6	597.4
155°	612.4	611.9	611.7	611.7	611.6	611.5	611.5	611.7	611.9	612.2	612.3
157.5°	624.1	623.4	623.5	623.6	623.7	623.8	623.9	623.9	623.9	624.0	624.0
160°	630.7	630.1	630.2	630.3	630.3	630.5	630.6	630.7	630.9	630.9	631.0
162.5°	636.7	635.9	636.0	636.2	636.3	636.4	636.5	636.9	637.1	637.4	637.7
165°	644.7	643.8	643.9	644.0	644.1	644.2	644.5	644.8	645.1	645.4	645.8
167.5°	651.0	650.1	650.1	650.1	650.1	650.1	650.3	650.7	651.2	651.6	652.0
170°	654.5	653.6	653.6	653.6	653.6	653.6	653.8	654.3	654.7	655.1	655.6
172.5°	656.9	656.0	655.9	655.8	655.7	655.7	655.8	656.3	656.9	657.5	658.0
175°	659.8	659.0	658.9	658.8	658.7	658.6	658.8	659.4	659.9	660.5	661.0
177.5°	660.9	660.2	660.1	660.0	660.0	659.9	660.0	660.5	660.9	661.3	661.8
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-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	3.9	4.0	3.7	4.0	3.9	4.4	4.3	4.5	4.6	4.5
90°	1.5	2.7	3.8	4.8	6.1	7.5	9.0	10.3	11.8	12.2	12.7
92.5°	8.9	8.5	8.2	7.9	8.3	9.4	10.4	11.5	12.6	13.3	13.9
95°	25.5	21.0	16.5	12.1	10.4	11.6	12.8	14.0	15.2	16.0	16.8
97.5°	58.2	56.2	54.2	52.2	47.3	39.3	31.5	23.7	15.8	16.7	17.6
100°	85.2	87.4	89.5	91.7	84.3	67.2	50.3	33.2	16.2	17.0	17.9
102.5°	110.5	112.1	113.7	115.2	106.7	88.1	69.5	50.9	32.3	29.6	26.9
105°	147.6	148.8	149.9	151.1	146.8	137.0	127.2	117.4	107.5	88.3	68.9
107.5°	186.8	187.8	188.7	189.7	190.9	192.4	194.0	195.5	197.1	183.0	168.8
110°	213.0	213.9	214.7	215.6	216.7	217.8	219.0	220.2	221.4	217.8	214.3





TEST NUMBER: P332246-935

CATALOG NUMBER: S123RDIP-S340D585U935-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	238.1	238.8	239.6	240.4	241.4	242.6	243.8	245.0	246.2	246.3	246.3
115°	275.2	275.8	276.5	277.2	277.9	279.0	279.9	280.9	281.9	283.0	284.0
117.5°	311.3	312.2	313.0	313.7	314.4	315.0	315.5	316.0	316.4	317.4	318.2
120°	333.9	334.9	335.9	336.9	337.5	337.9	338.2	338.5	338.8	339.8	340.6
122.5°	356.5	357.3	358.2	359.0	359.6	360.0	360.4	360.8	361.3	361.9	362.5
125°	387.9	388.7	389.6	390.5	391.2	391.6	392.0	392.4	392.9	393.0	393.3
127.5°	418.1	419.0	419.8	420.7	421.4	421.9	422.5	423.0	423.5	423.9	424.2
130°	437.0	437.8	438.7	439.5	440.2	440.7	441.1	441.5	442.0	442.4	442.8
132.5°	455.0	455.9	456.8	457.6	458.2	458.6	458.9	459.3	459.7	460.1	460.5
135°	482.4	483.0	483.7	484.4	484.9	485.3	485.8	486.2	486.6	487.0	487.3
137.5°	506.2	507.0	507.8	508.6	509.2	509.4	509.6	509.9	510.1	510.7	511.2
140°	521.7	522.4	523.0	523.7	524.2	524.4	524.8	525.1	525.5	525.9	526.3
142.5°	536.2	536.9	537.5	538.2	538.6	539.0	539.3	539.7	540.0	540.4	540.7
145°	556.6	557.4	558.2	559.0	559.5	559.6	559.9	560.1	560.3	560.5	560.8
147.5°	575.6	576.1	576.5	577.0	577.4	577.6	577.8	578.1	578.3	578.5	578.8
150°	587.2	587.5	587.8	588.1	588.4	588.7	588.8	589.1	589.3	589.5	589.7
152.5°	597.6	597.7	597.9	598.1	598.2	598.3	598.5	598.6	598.7	599.1	599.5
155°	612.2	611.9	611.7	611.5	611.5	611.6	611.7	611.7	611.9	612.4	612.9
157.5°	624.0	623.9	623.9	623.9	623.8	623.7	623.6	623.5	623.4	624.1	624.7
160°	630.9	630.9	630.7	630.6	630.5	630.3	630.3	630.2	630.1	630.7	631.4
162.5°	637.4	637.1	636.9	636.5	636.4	636.3	636.2	636.0	635.9	636.7	637.4
165°	645.4	645.1	644.8	644.5	644.2	644.1	644.0	643.9	643.8	644.7	645.6
167.5°	651.6	651.2	650.7	650.3	650.1	650.1	650.1	650.1	650.1	651.0	651.9
170°	655.1	654.7	654.3	653.8	653.6	653.6	653.6	653.6	653.6	654.5	655.4
172.5°	657.5	656.9	656.3	655.8	655.7	655.7	655.8	655.9	656.0	656.9	657.7
175°	660.5	659.9	659.4	658.8	658.6	658.7	658.8	658.9	659.0	659.8	660.6
177.5°	661.3	660.9	660.5	660.0	659.9	660.0	660.0	660.1	660.2	660.9	661.6
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0	661.0



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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°	4.6	4.6	4.6	4.6	4.5	4.8	4.6
90°	13.1	13.5	13.9	14.1	14.3	14.6	14.7
92.5°	14.6	15.3	15.8	15.9	16.0	16.2	16.3
95°	17.5	18.3	18.7	18.7	18.7	18.7	18.7
97.5°	18.4	19.3	19.8	19.9	20.0	20.1	20.2
100°	18.9	19.7	20.1	20.3	20.4	20.5	20.7
102.5°	24.2	21.5	20.2	20.4	20.7	20.8	21.0
105°	49.6	30.3	20.8	20.9	21.2	21.4	21.6
107.5°	154.6	140.4	126.1	111.5	96.9	82.4	67.8
110°	210.7	207.1	197.4	181.8	166.3	150.7	135.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	246.4	246.5	244.9	241.6	238.2	235.0	231.7
115°	285.2	286.3	287.0	287.4	287.9	288.3	288.8
117.5°	319.1	319.9	320.5	320.6	320.6	320.7	320.8
120°	341.5	342.3	342.8	342.8	342.8	342.8	342.8
122.5°	363.1	363.7	364.0	364.1	364.2	364.3	364.4
125°	393.5	393.7	394.0	394.2	394.4	394.6	394.9
127.5°	424.6	424.9	425.0	424.7	424.6	424.3	424.1
130°	443.2	443.7	443.8	443.6	443.4	443.2	443.0
132.5°	461.0	461.4	461.5	461.2	460.8	460.5	460.2
135°	487.7	487.9	487.9	487.7	487.3	487.0	486.6
137.5°	511.7	512.2	512.4	512.1	512.0	511.7	511.5
140°	526.8	527.2	527.3	527.1	526.8	526.7	526.4
142.5°	541.1	541.4	541.4	541.1	540.8	540.4	540.2
145°	560.9	561.2	561.3	561.3	561.3	561.3	561.3
147.5°	578.9	579.2	579.0	578.5	578.0	577.6	577.0
150°	590.0	590.1	590.1	589.8	589.4	589.1	588.8
152.5°	599.9	600.3	600.2	599.8	599.3	598.7	598.2
155°	613.5	614.1	614.0	613.4	612.7	612.1	611.4
157.5°	625.3	626.0	625.9	625.0	624.2	623.4	622.5
160°	632.0	632.7	632.6	631.9	631.1	630.3	629.6
162.5°	638.2	638.9	638.9	638.3	637.6	636.9	636.3
165°	646.4	647.3	647.4	646.6	645.8	645.1	644.3
167.5°	652.7	653.6	653.6	652.7	651.9	651.0	650.1
170°	656.3	657.1	657.1	656.3	655.4	654.5	653.6
172.5°	658.6	659.4	659.4	658.5	657.5	656.5	655.6
175°	661.3	662.1	662.0	661.2	660.3	659.4	658.5
177.5°	662.3	663.0	662.9	662.0	661.2	660.3	659.4
180°	661.0	661.0	661.0	661.0	661.0	661.0	661.0

(END OF REPORT)