

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: P331874-940

Luminaire Tested: **S123DIP-S340D585U940-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331874-940
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: S123DIP-S340D585U940-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.6 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

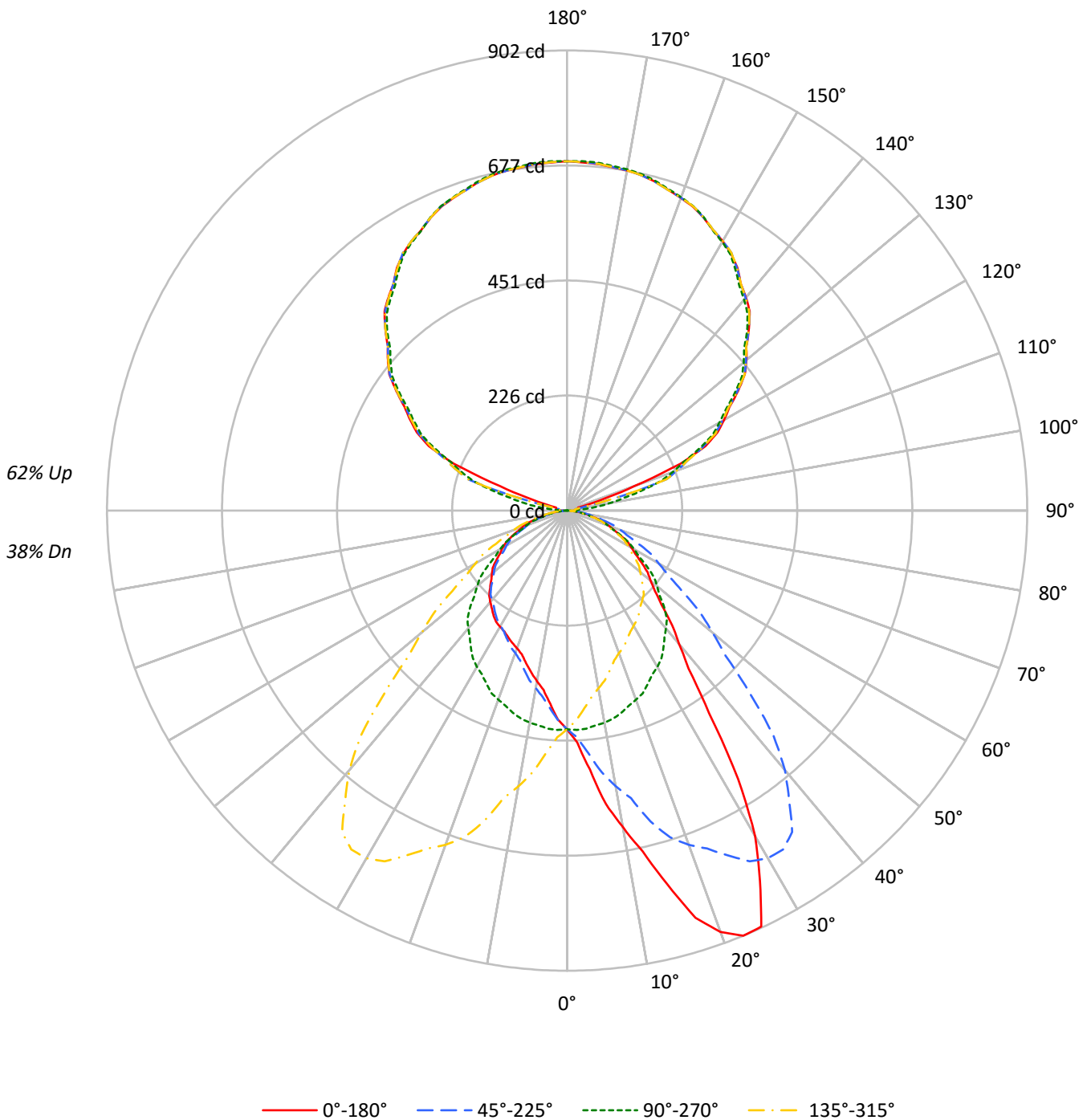
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	27	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.2
10°-20°	135.4	4.0
20°-30°	227.3	6.7
30°-40°	257.4	7.6
40°-50°	230.8	6.8
50°-60°	186.3	5.5
60°-70°	129.8	3.8
70°-80°	68.2	2.0
80°-90°	18.6	0.5
90°-100°	24.9	0.7
100°-110°	118.6	3.5
110°-120°	284.9	8.4
120°-130°	362.8	10.7
130°-140°	387.7	11.5
140°-150°	362.5	10.7
150°-160°	292.4	8.6
160°-170°	188.7	5.6
170°-180°	65.0	1.9
0°-30°	405.0	12.0
0°-40°	662.4	19.6
0°-60°	1079.4	31.9
0°-90°	1296.0	38.3
90°-120°	428.4	12.7
90°-150°	1541.4	45.6
90°-180°	2088.0	61.7
0°-180°	3383.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
90°	15	0	15	0	15	8
95°	19	31	19	31	19	16
105°	22	152	22	152	22	51
115°	299	284	299	284	299	276
125°	409	401	409	401	409	365
135°	504	499	504	499	504	389
145°	581	576	581	576	581	363
155°	633	634	633	634	633	292
165°	667	669	667	669	667	188
175°	682	685	682	685	682	65
180°	685	685	685	685	685	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	8.0	7.7	7.8	7.9	7.7	7.8	7.8	7.9	8.0	8.1	7.9
90°	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1	12.7	12.2	10.7
92.5°	16.9	16.8	16.6	16.5	16.3	15.9	15.2	14.4	13.7	13.0	11.9
95°	19.4	19.4	19.4	19.4	19.4	18.9	18.1	17.4	16.6	15.8	14.5
97.5°	21.0	20.9	20.7	20.6	20.5	20.0	19.1	18.2	17.3	16.4	24.5
100°	21.4	21.2	21.1	21.0	20.9	20.4	19.5	18.5	17.7	16.8	34.4
102.5°	21.8	21.6	21.4	21.1	21.0	22.3	25.1	27.8	30.7	33.4	52.7
105°	22.4	22.1	21.9	21.7	21.5	31.4	51.4	71.3	91.4	111.4	121.5
107.5°	70.3	85.3	100.4	115.5	130.6	145.4	160.2	174.8	189.5	204.1	202.5
110°	139.8	156.0	172.2	188.3	204.5	214.5	218.2	221.9	225.6	229.3	228.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	240.0	243.3	246.7	250.2	253.6	255.3	255.2	255.1	255.1	255.0	253.8
115°	299.1	298.6	298.2	297.7	297.2	296.5	295.3	294.2	293.1	291.9	290.9
117.5°	332.3	332.2	332.1	332.0	331.9	331.4	330.5	329.6	328.7	327.7	327.3
120°	355.0	355.0	355.0	355.0	355.0	354.5	353.7	352.8	351.9	350.9	350.6
122.5°	377.4	377.3	377.2	377.1	377.0	376.7	376.0	375.4	374.8	374.2	373.7
125°	408.9	408.7	408.5	408.2	408.0	407.8	407.5	407.3	407.1	406.9	406.4
127.5°	439.3	439.4	439.7	439.9	440.1	440.1	439.7	439.3	439.0	438.6	438.1
130°	458.8	459.0	459.2	459.4	459.7	459.5	459.1	458.6	458.2	457.7	457.3
132.5°	476.6	477.0	477.2	477.6	478.0	477.9	477.4	477.0	476.5	476.1	475.6
135°	504.0	504.4	504.7	505.1	505.3	505.3	505.1	504.7	504.4	504.0	503.5
137.5°	529.8	529.9	530.2	530.4	530.7	530.5	529.9	529.4	528.9	528.3	528.1
140°	545.2	545.5	545.6	545.9	546.1	546.0	545.5	545.1	544.7	544.2	543.9
142.5°	559.5	559.7	560.1	560.4	560.7	560.7	560.4	560.0	559.6	559.3	558.9
145°	581.3	581.3	581.3	581.3	581.3	581.2	580.9	580.8	580.5	580.3	580.1
147.5°	597.6	598.2	598.6	599.1	599.7	599.9	599.6	599.4	599.1	599.0	598.7
150°	609.8	610.1	610.5	610.8	611.2	611.2	611.0	610.7	610.6	610.3	610.1
152.5°	619.6	620.1	620.6	621.2	621.6	621.7	621.3	620.9	620.5	620.1	619.9
155°	633.2	633.9	634.5	635.3	635.9	636.0	635.4	634.8	634.3	633.7	633.6
157.5°	644.7	645.6	646.5	647.3	648.2	648.4	647.6	646.9	646.3	645.6	645.7
160°	652.0	652.8	653.6	654.4	655.1	655.2	654.5	653.9	653.2	652.6	652.6
162.5°	659.0	659.6	660.3	661.0	661.7	661.7	660.9	660.1	659.4	658.6	658.7
165°	667.3	668.1	668.9	669.7	670.5	670.4	669.5	668.6	667.7	666.7	666.9
167.5°	673.2	674.2	675.1	676.0	676.9	676.9	676.0	675.1	674.2	673.2	673.2
170°	676.9	677.9	678.8	679.7	680.6	680.6	679.7	678.8	677.9	676.9	676.9
172.5°	678.9	679.9	681.0	682.0	683.0	683.0	682.1	681.2	680.3	679.4	679.3
175°	682.0	683.0	683.9	684.7	685.6	685.7	684.9	684.1	683.3	682.5	682.4
177.5°	683.0	683.9	684.7	685.6	686.5	686.6	685.9	685.2	684.5	683.8	683.7
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	8.0	7.8	7.0	6.2	5.6	4.9	4.6	4.1	4.0	4.2	4.3
90°	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5	1.6	2.8	3.9
92.5°	10.8	9.7	8.6	8.2	8.5	8.8	9.2	9.5	9.2	8.8	8.5
95°	13.3	12.0	10.8	12.5	17.1	21.8	26.4	31.0	26.4	21.8	17.1
97.5°	32.6	40.8	49.0	54.0	56.1	58.2	60.3	62.3	60.3	58.2	56.1
100°	52.1	69.6	87.3	95.0	92.7	90.5	88.2	86.0	88.2	90.5	92.7
102.5°	72.0	91.2	110.5	119.3	117.7	116.1	114.4	112.8	114.4	116.1	117.7
105°	131.7	141.9	152.0	156.5	155.2	154.1	152.8	151.6	152.8	154.1	155.2
107.5°	200.9	199.3	197.7	196.4	195.5	194.5	193.4	192.4	193.4	194.5	195.5
110°	226.9	225.6	224.4	223.3	222.4	221.5	220.6	219.7	220.6	221.5	222.4



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	252.5	251.3	250.0	249.0	248.2	247.4	246.6	245.8	246.6	247.4	248.2
115°	289.9	288.9	287.8	287.0	286.3	285.6	285.0	284.3	285.0	285.6	286.3
117.5°	326.7	326.2	325.7	324.9	324.1	323.3	322.4	321.6	322.4	323.3	324.1
120°	350.3	349.9	349.6	348.9	347.9	346.9	345.8	344.8	345.8	346.9	347.9
122.5°	373.3	372.8	372.4	371.8	371.0	370.1	369.3	368.5	369.3	370.1	371.0
125°	406.0	405.6	405.1	404.4	403.5	402.6	401.7	400.7	401.7	402.6	403.5
127.5°	437.6	436.9	436.4	435.7	434.8	433.9	433.0	432.1	433.0	433.9	434.8
130°	456.8	456.4	455.9	455.2	454.3	453.4	452.5	451.7	452.5	453.4	454.3
132.5°	475.3	474.9	474.6	473.9	473.1	472.2	471.3	470.4	471.3	472.2	473.1
135°	503.1	502.7	502.2	501.7	501.0	500.2	499.6	498.9	499.6	500.2	501.0
137.5°	527.8	527.5	527.4	526.7	525.9	525.0	524.2	523.3	524.2	525.0	525.9
140°	543.5	543.1	542.9	542.3	541.6	541.0	540.3	539.6	540.3	541.0	541.6
142.5°	558.6	558.2	557.9	557.4	556.7	556.1	555.4	554.6	555.4	556.1	556.7
145°	579.9	579.6	579.4	578.9	578.1	577.3	576.5	575.7	576.5	577.3	578.1
147.5°	598.4	598.2	598.0	597.6	597.1	596.6	596.1	595.6	596.1	596.6	597.1
150°	609.8	609.7	609.4	609.1	608.8	608.4	608.1	607.8	608.1	608.4	608.8
152.5°	619.8	619.6	619.6	619.4	619.2	619.0	618.9	618.8	618.9	619.0	619.2
155°	633.5	633.4	633.3	633.3	633.6	633.7	634.0	634.2	634.0	633.7	633.6
157.5°	645.9	646.0	646.0	646.1	646.1	646.1	646.2	646.2	646.2	646.1	646.1
160°	652.7	652.8	653.0	653.1	653.2	653.4	653.4	653.5	653.4	653.4	653.2
162.5°	658.9	659.0	659.1	659.2	659.6	659.9	660.1	660.5	660.1	659.9	659.6
165°	667.0	667.1	667.2	667.4	667.8	668.2	668.4	668.8	668.4	668.2	667.8
167.5°	673.2	673.2	673.2	673.5	674.0	674.4	674.8	675.3	674.8	674.4	674.0
170°	676.9	676.9	676.9	677.2	677.6	678.1	678.5	678.9	678.5	678.1	677.6
172.5°	679.2	679.1	679.0	679.2	679.8	680.3	680.9	681.4	680.9	680.3	679.8
175°	682.3	682.2	682.1	682.3	682.9	683.4	684.0	684.6	684.0	683.4	682.9
177.5°	683.6	683.5	683.4	683.6	684.0	684.5	684.9	685.4	684.9	684.5	684.0
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	4.4	4.7	4.9	5.4	5.4	6.0	6.1	5.8	5.9	6.4	5.9
90°	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1	13.6	14.0	14.4
92.5°	8.2	8.6	9.7	10.8	11.9	13.0	13.7	14.4	15.2	15.9	16.3
95°	12.5	10.8	12.0	13.3	14.5	15.8	16.6	17.4	18.1	18.9	19.4
97.5°	54.0	49.0	40.8	32.6	24.5	16.4	17.3	18.2	19.1	20.0	20.5
100°	95.0	87.3	69.6	52.1	34.4	16.8	17.7	18.5	19.5	20.4	20.9
102.5°	119.3	110.5	91.2	72.0	52.7	33.4	30.7	27.8	25.1	22.3	21.0
105°	156.5	152.0	141.9	131.7	121.5	111.4	91.4	71.3	51.4	31.4	21.5
107.5°	196.4	197.7	199.3	200.9	202.5	204.1	189.5	174.8	160.2	145.4	130.6
110°	223.3	224.4	225.6	226.9	228.1	229.3	225.6	221.9	218.2	214.5	204.5



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	249.0	250.0	251.3	252.5	253.8	255.0	255.1	255.1	255.2	255.3	253.6
115°	287.0	287.8	288.9	289.9	290.9	291.9	293.1	294.2	295.3	296.5	297.2
117.5°	324.9	325.7	326.2	326.7	327.3	327.7	328.7	329.6	330.5	331.4	331.9
120°	348.9	349.6	349.9	350.3	350.6	350.9	351.9	352.8	353.7	354.5	355.0
122.5°	371.8	372.4	372.8	373.3	373.7	374.2	374.8	375.4	376.0	376.7	377.0
125°	404.4	405.1	405.6	406.0	406.4	406.9	407.1	407.3	407.5	407.8	408.0
127.5°	435.7	436.4	436.9	437.6	438.1	438.6	439.0	439.3	439.7	440.1	440.1
130°	455.2	455.9	456.4	456.8	457.3	457.7	458.2	458.6	459.1	459.5	459.7
132.5°	473.9	474.6	474.9	475.3	475.6	476.1	476.5	477.0	477.4	477.9	478.0
135°	501.7	502.2	502.7	503.1	503.5	504.0	504.4	504.7	505.1	505.3	505.3
137.5°	526.7	527.4	527.5	527.8	528.1	528.3	528.9	529.4	529.9	530.5	530.7
140°	542.3	542.9	543.1	543.5	543.9	544.2	544.7	545.1	545.5	546.0	546.1
142.5°	557.4	557.9	558.2	558.6	558.9	559.3	559.6	560.0	560.4	560.7	560.7
145°	578.9	579.4	579.6	579.9	580.1	580.3	580.5	580.8	580.9	581.2	581.3
147.5°	597.6	598.0	598.2	598.4	598.7	599.0	599.1	599.4	599.6	599.9	599.7
150°	609.1	609.4	609.7	609.8	610.1	610.3	610.6	610.7	611.0	611.2	611.2
152.5°	619.4	619.6	619.6	619.8	619.9	620.1	620.5	620.9	621.3	621.7	621.6
155°	633.3	633.3	633.4	633.5	633.6	633.7	634.3	634.8	635.4	636.0	635.9
157.5°	646.1	646.0	646.0	645.9	645.7	645.6	646.3	646.9	647.6	648.4	648.2
160°	653.1	653.0	652.8	652.7	652.6	652.6	653.2	653.9	654.5	655.2	655.1
162.5°	659.2	659.1	659.0	658.9	658.7	658.6	659.4	660.1	660.9	661.7	661.7
165°	667.4	667.2	667.1	667.0	666.9	666.7	667.7	668.6	669.5	670.4	670.5
167.5°	673.5	673.2	673.2	673.2	673.2	673.2	674.2	675.1	676.0	676.9	676.9
170°	677.2	676.9	676.9	676.9	676.9	676.9	677.9	678.8	679.7	680.6	680.6
172.5°	679.2	679.0	679.1	679.2	679.3	679.4	680.3	681.2	682.1	683.0	683.0
175°	682.3	682.1	682.2	682.3	682.4	682.5	683.3	684.1	684.9	685.7	685.6
177.5°	683.6	683.4	683.5	683.6	683.7	683.8	684.5	685.2	685.9	686.6	686.5
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	5.9	6.0	5.8	5.7	5.8	6.0	5.9	5.9	6.4	5.9	5.8
90°	14.6	14.8	15.1	15.2	15.1	14.8	14.6	14.4	14.0	13.6	13.1
92.5°	16.5	16.6	16.8	16.9	16.8	16.6	16.5	16.3	15.9	15.2	14.4
95°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4	18.9	18.1	17.4
97.5°	20.6	20.7	20.9	21.0	20.9	20.7	20.6	20.5	20.0	19.1	18.2
100°	21.0	21.1	21.2	21.4	21.2	21.1	21.0	20.9	20.4	19.5	18.5
102.5°	21.1	21.4	21.6	21.8	21.6	21.4	21.1	21.0	22.3	25.1	27.8
105°	21.7	21.9	22.1	22.4	22.1	21.9	21.7	21.5	31.4	51.4	71.3
107.5°	115.5	100.4	85.3	70.3	85.3	100.4	115.5	130.6	145.4	160.2	174.8
110°	188.3	172.2	156.0	139.8	156.0	172.2	188.3	204.5	214.5	218.2	221.9



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	250.2	246.7	243.3	240.0	243.3	246.7	250.2	253.6	255.3	255.2	255.1
115°	297.7	298.2	298.6	299.1	298.6	298.2	297.7	297.2	296.5	295.3	294.2
117.5°	332.0	332.1	332.2	332.3	332.2	332.1	332.0	331.9	331.4	330.5	329.6
120°	355.0	355.0	355.0	355.0	355.0	355.0	355.0	355.0	354.5	353.7	352.8
122.5°	377.1	377.2	377.3	377.4	377.3	377.2	377.1	377.0	376.7	376.0	375.4
125°	408.2	408.5	408.7	408.9	408.7	408.5	408.2	408.0	407.8	407.5	407.3
127.5°	439.9	439.7	439.4	439.3	439.4	439.7	439.9	440.1	440.1	439.7	439.3
130°	459.4	459.2	459.0	458.8	459.0	459.2	459.4	459.7	459.5	459.1	458.6
132.5°	477.6	477.2	477.0	476.6	477.0	477.2	477.6	478.0	477.9	477.4	477.0
135°	505.1	504.7	504.4	504.0	504.4	504.7	505.1	505.3	505.3	505.1	504.7
137.5°	530.4	530.2	529.9	529.8	529.9	530.2	530.4	530.7	530.5	529.9	529.4
140°	545.9	545.6	545.5	545.2	545.5	545.6	545.9	546.1	546.0	545.5	545.1
142.5°	560.4	560.1	559.7	559.5	559.7	560.1	560.4	560.7	560.7	560.4	560.0
145°	581.3	581.3	581.3	581.3	581.3	581.3	581.3	581.3	581.2	580.9	580.8
147.5°	599.1	598.6	598.2	597.6	598.2	598.6	599.1	599.7	599.9	599.6	599.4
150°	610.8	610.5	610.1	609.8	610.1	610.5	610.8	611.2	611.2	611.0	610.7
152.5°	621.2	620.6	620.1	619.6	620.1	620.6	621.2	621.6	621.7	621.3	620.9
155°	635.3	634.5	633.9	633.2	633.9	634.5	635.3	635.9	636.0	635.4	634.8
157.5°	647.3	646.5	645.6	644.7	645.6	646.5	647.3	648.2	648.4	647.6	646.9
160°	654.4	653.6	652.8	652.0	652.8	653.6	654.4	655.1	655.2	654.5	653.9
162.5°	661.0	660.3	659.6	659.0	659.6	660.3	661.0	661.7	661.7	660.9	660.1
165°	669.7	668.9	668.1	667.3	668.1	668.9	669.7	670.5	670.4	669.5	668.6
167.5°	676.0	675.1	674.2	673.2	674.2	675.1	676.0	676.9	676.9	676.0	675.1
170°	679.7	678.8	677.9	676.9	677.9	678.8	679.7	680.6	680.6	679.7	678.8
172.5°	682.0	681.0	679.9	678.9	679.9	681.0	682.0	683.0	683.0	682.1	681.2
175°	684.7	683.9	683.0	682.0	683.0	683.9	684.7	685.6	685.7	684.9	684.1
177.5°	685.6	684.7	683.9	683.0	683.9	684.7	685.6	686.5	686.6	685.9	685.2
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	6.1	6.0	5.4	5.4	4.9	4.7	4.4	4.3	4.2	4.0	4.1
90°	12.7	12.2	10.7	9.3	7.8	6.3	5.0	3.9	2.8	1.6	0.5
92.5°	13.7	13.0	11.9	10.8	9.7	8.6	8.2	8.5	8.8	9.2	9.5
95°	16.6	15.8	14.5	13.3	12.0	10.8	12.5	17.1	21.8	26.4	31.0
97.5°	17.3	16.4	24.5	32.6	40.8	49.0	54.0	56.1	58.2	60.3	62.3
100°	17.7	16.8	34.4	52.1	69.6	87.3	95.0	92.7	90.5	88.2	86.0
102.5°	30.7	33.4	52.7	72.0	91.2	110.5	119.3	117.7	116.1	114.4	112.8
105°	91.4	111.4	121.5	131.7	141.9	152.0	156.5	155.2	154.1	152.8	151.6
107.5°	189.5	204.1	202.5	200.9	199.3	197.7	196.4	195.5	194.5	193.4	192.4
110°	225.6	229.3	228.1	226.9	225.6	224.4	223.3	222.4	221.5	220.6	219.7



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	255.1	255.0	253.8	252.5	251.3	250.0	249.0	248.2	247.4	246.6	245.8
115°	293.1	291.9	290.9	289.9	288.9	287.8	287.0	286.3	285.6	285.0	284.3
117.5°	328.7	327.7	327.3	326.7	326.2	325.7	324.9	324.1	323.3	322.4	321.6
120°	351.9	350.9	350.6	350.3	349.9	349.6	348.9	347.9	346.9	345.8	344.8
122.5°	374.8	374.2	373.7	373.3	372.8	372.4	371.8	371.0	370.1	369.3	368.5
125°	407.1	406.9	406.4	406.0	405.6	405.1	404.4	403.5	402.6	401.7	400.7
127.5°	439.0	438.6	438.1	437.6	436.9	436.4	435.7	434.8	433.9	433.0	432.1
130°	458.2	457.7	457.3	456.8	456.4	455.9	455.2	454.3	453.4	452.5	451.7
132.5°	476.5	476.1	475.6	475.3	474.9	474.6	473.9	473.1	472.2	471.3	470.4
135°	504.4	504.0	503.5	503.1	502.7	502.2	501.7	501.0	500.2	499.6	498.9
137.5°	528.9	528.3	528.1	527.8	527.5	527.4	526.7	525.9	525.0	524.2	523.3
140°	544.7	544.2	543.9	543.5	543.1	542.9	542.3	541.6	541.0	540.3	539.6
142.5°	559.6	559.3	558.9	558.6	558.2	557.9	557.4	556.7	556.1	555.4	554.6
145°	580.5	580.3	580.1	579.9	579.6	579.4	578.9	578.1	577.3	576.5	575.7
147.5°	599.1	599.0	598.7	598.4	598.2	598.0	597.6	597.1	596.6	596.1	595.6
150°	610.6	610.3	610.1	609.8	609.7	609.4	609.1	608.8	608.4	608.1	607.8
152.5°	620.5	620.1	619.9	619.8	619.6	619.6	619.4	619.2	619.0	618.9	618.8
155°	634.3	633.7	633.6	633.5	633.4	633.3	633.3	633.6	633.7	634.0	634.2
157.5°	646.3	645.6	645.7	645.9	646.0	646.0	646.1	646.1	646.1	646.2	646.2
160°	653.2	652.6	652.6	652.7	652.8	653.0	653.1	653.2	653.4	653.4	653.5
162.5°	659.4	658.6	658.7	658.9	659.0	659.1	659.2	659.6	659.9	660.1	660.5
165°	667.7	666.7	666.9	667.0	667.1	667.2	667.4	667.8	668.2	668.4	668.8
167.5°	674.2	673.2	673.2	673.2	673.2	673.2	673.5	674.0	674.4	674.8	675.3
170°	677.9	676.9	676.9	676.9	676.9	676.9	677.2	677.6	678.1	678.5	678.9
172.5°	680.3	679.4	679.3	679.2	679.1	679.0	679.2	679.8	680.3	680.9	681.4
175°	683.3	682.5	682.4	682.3	682.2	682.1	682.3	682.9	683.4	684.0	684.6
177.5°	684.5	683.8	683.7	683.6	683.5	683.4	683.6	684.0	684.5	684.9	685.4
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	4.6	4.9	5.6	6.2	7.0	7.8	8.0	7.9	8.1	8.0	7.9
90°	1.6	2.8	3.9	5.0	6.3	7.8	9.3	10.7	12.2	12.7	13.1
92.5°	9.2	8.8	8.5	8.2	8.6	9.7	10.8	11.9	13.0	13.7	14.4
95°	26.4	21.8	17.1	12.5	10.8	12.0	13.3	14.5	15.8	16.6	17.4
97.5°	60.3	58.2	56.1	54.0	49.0	40.8	32.6	24.5	16.4	17.3	18.2
100°	88.2	90.5	92.7	95.0	87.3	69.6	52.1	34.4	16.8	17.7	18.5
102.5°	114.4	116.1	117.7	119.3	110.5	91.2	72.0	52.7	33.4	30.7	27.8
105°	152.8	154.1	155.2	156.5	152.0	141.9	131.7	121.5	111.4	91.4	71.3
107.5°	193.4	194.5	195.5	196.4	197.7	199.3	200.9	202.5	204.1	189.5	174.8
110°	220.6	221.5	222.4	223.3	224.4	225.6	226.9	228.1	229.3	225.6	221.9



TEST NUMBER: P331874-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	246.6	247.4	248.2	249.0	250.0	251.3	252.5	253.8	255.0	255.1	255.1
115°	285.0	285.6	286.3	287.0	287.8	288.9	289.9	290.9	291.9	293.1	294.2
117.5°	322.4	323.3	324.1	324.9	325.7	326.2	326.7	327.3	327.7	328.7	329.6
120°	345.8	346.9	347.9	348.9	349.6	349.9	350.3	350.6	350.9	351.9	352.8
122.5°	369.3	370.1	371.0	371.8	372.4	372.8	373.3	373.7	374.2	374.8	375.4
125°	401.7	402.6	403.5	404.4	405.1	405.6	406.0	406.4	406.9	407.1	407.3
127.5°	433.0	433.9	434.8	435.7	436.4	436.9	437.6	438.1	438.6	439.0	439.3
130°	452.5	453.4	454.3	455.2	455.9	456.4	456.8	457.3	457.7	458.2	458.6
132.5°	471.3	472.2	473.1	473.9	474.6	474.9	475.3	475.6	476.1	476.5	477.0
135°	499.6	500.2	501.0	501.7	502.2	502.7	503.1	503.5	504.0	504.4	504.7
137.5°	524.2	525.0	525.9	526.7	527.4	527.5	527.8	528.1	528.3	528.9	529.4
140°	540.3	541.0	541.6	542.3	542.9	543.1	543.5	543.9	544.2	544.7	545.1
142.5°	555.4	556.1	556.7	557.4	557.9	558.2	558.6	558.9	559.3	559.6	560.0
145°	576.5	577.3	578.1	578.9	579.4	579.6	579.9	580.1	580.3	580.5	580.8
147.5°	596.1	596.6	597.1	597.6	598.0	598.2	598.4	598.7	599.0	599.1	599.4
150°	608.1	608.4	608.8	609.1	609.4	609.7	609.8	610.1	610.3	610.6	610.7
152.5°	618.9	619.0	619.2	619.4	619.6	619.6	619.8	619.9	620.1	620.5	620.9
155°	634.0	633.7	633.6	633.3	633.3	633.4	633.5	633.6	633.7	634.3	634.8
157.5°	646.2	646.1	646.1	646.1	646.0	646.0	645.9	645.7	645.6	646.3	646.9
160°	653.4	653.4	653.2	653.1	653.0	652.8	652.7	652.6	652.6	653.2	653.9
162.5°	660.1	659.9	659.6	659.2	659.1	659.0	658.9	658.7	658.6	659.4	660.1
165°	668.4	668.2	667.8	667.4	667.2	667.1	667.0	666.9	666.7	667.7	668.6
167.5°	674.8	674.4	674.0	673.5	673.2	673.2	673.2	673.2	673.2	674.2	675.1
170°	678.5	678.1	677.6	677.2	676.9	676.9	676.9	676.9	676.9	677.9	678.8
172.5°	680.9	680.3	679.8	679.2	679.0	679.1	679.2	679.3	679.4	680.3	681.2
175°	684.0	683.4	682.9	682.3	682.1	682.2	682.3	682.4	682.5	683.3	684.1
177.5°	684.9	684.5	684.0	683.6	683.4	683.5	683.6	683.7	683.8	684.5	685.2
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6	684.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	7.8	7.8	7.7	7.9	7.8	7.7	8.0
90°	13.6	14.0	14.4	14.6	14.8	15.1	15.2
92.5°	15.2	15.9	16.3	16.5	16.6	16.8	16.9
95°	18.1	18.9	19.4	19.4	19.4	19.4	19.4
97.5°	19.1	20.0	20.5	20.6	20.7	20.9	21.0
100°	19.5	20.4	20.9	21.0	21.1	21.2	21.4
102.5°	25.1	22.3	21.0	21.1	21.4	21.6	21.8
105°	51.4	31.4	21.5	21.7	21.9	22.1	22.4
107.5°	160.2	145.4	130.6	115.5	100.4	85.3	70.3
110°	218.2	214.5	204.5	188.3	172.2	156.0	139.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	255.2	255.3	253.6	250.2	246.7	243.3	240.0
115°	295.3	296.5	297.2	297.7	298.2	298.6	299.1
117.5°	330.5	331.4	331.9	332.0	332.1	332.2	332.3
120°	353.7	354.5	355.0	355.0	355.0	355.0	355.0
122.5°	376.0	376.7	377.0	377.1	377.2	377.3	377.4
125°	407.5	407.8	408.0	408.2	408.5	408.7	408.9
127.5°	439.7	440.1	440.1	439.9	439.7	439.4	439.3
130°	459.1	459.5	459.7	459.4	459.2	459.0	458.8
132.5°	477.4	477.9	478.0	477.6	477.2	477.0	476.6
135°	505.1	505.3	505.3	505.1	504.7	504.4	504.0
137.5°	529.9	530.5	530.7	530.4	530.2	529.9	529.8
140°	545.5	546.0	546.1	545.9	545.6	545.5	545.2
142.5°	560.4	560.7	560.7	560.4	560.1	559.7	559.5
145°	580.9	581.2	581.3	581.3	581.3	581.3	581.3
147.5°	599.6	599.9	599.7	599.1	598.6	598.2	597.6
150°	611.0	611.2	611.2	610.8	610.5	610.1	609.8
152.5°	621.3	621.7	621.6	621.2	620.6	620.1	619.6
155°	635.4	636.0	635.9	635.3	634.5	633.9	633.2
157.5°	647.6	648.4	648.2	647.3	646.5	645.6	644.7
160°	654.5	655.2	655.1	654.4	653.6	652.8	652.0
162.5°	660.9	661.7	661.7	661.0	660.3	659.6	659.0
165°	669.5	670.4	670.5	669.7	668.9	668.1	667.3
167.5°	676.0	676.9	676.9	676.0	675.1	674.2	673.2
170°	679.7	680.6	680.6	679.7	678.8	677.9	676.9
172.5°	682.1	683.0	683.0	682.0	681.0	679.9	678.9
175°	684.9	685.7	685.6	684.7	683.9	683.0	682.0
177.5°	685.9	686.6	686.5	685.6	684.7	683.9	683.0
180°	684.6	684.6	684.6	684.6	684.6	684.6	684.6

(END OF REPORT)