

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: P331875-830

Luminaire Tested: **S123DIP-S340D585U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331875-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DIP-S340D585U830-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3266.1 lumens
Efficiency: N/A
Efficacy: 127.6 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: General Diffuse

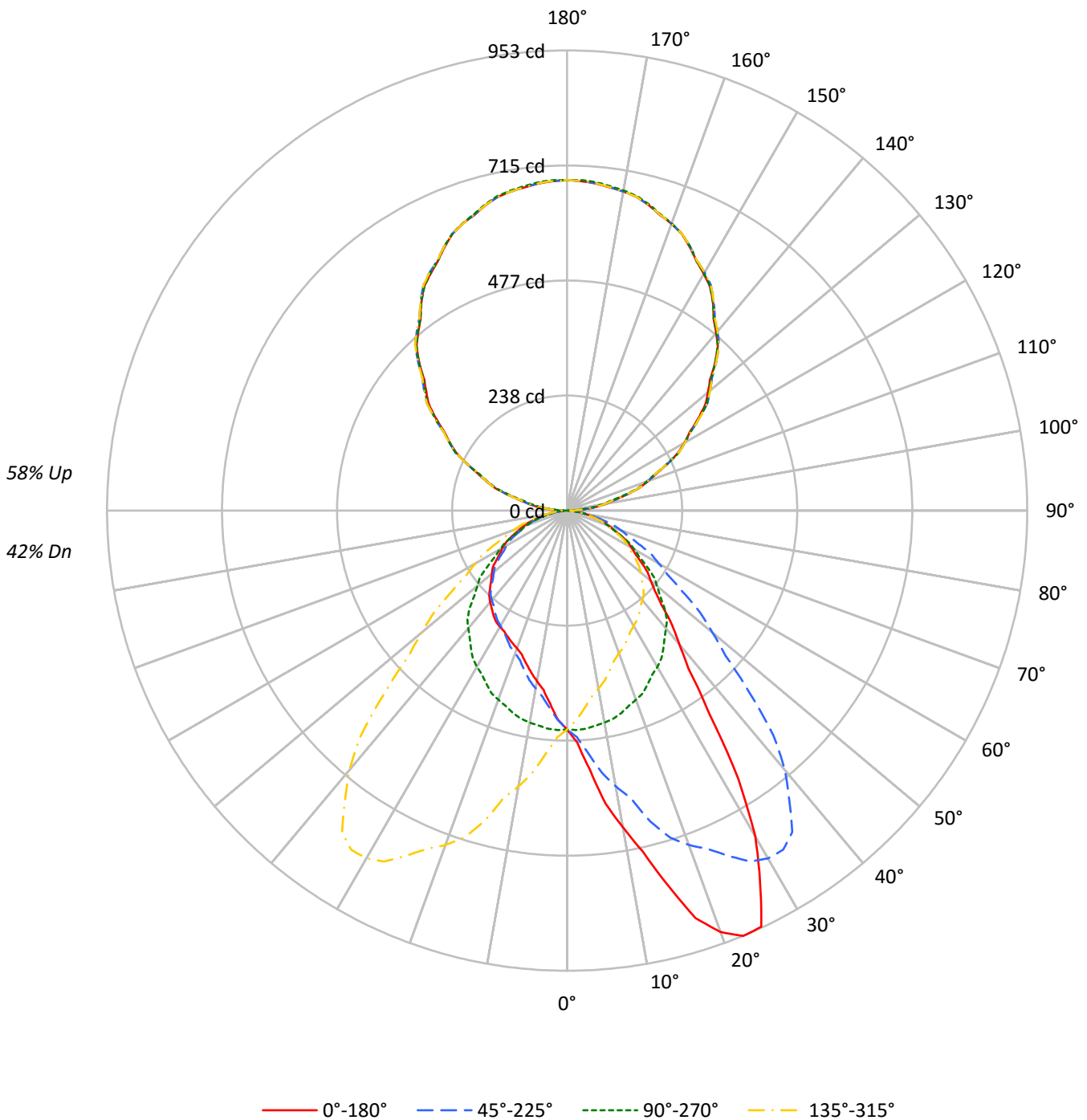
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42	36																				
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30																				
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26																				
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22																				
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20																				
6	62	50	42	37	56	46	39	34	39	33	29	32	28	25	25	22	20	17																				
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15																				
8	53	41	34	28	48	38	31	27	32	27	23	26	22	20	21	18	16	14																				
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12																				
10	46	34	27	23	42	32	25	21	27	22	18	22	19	16	18	15	13	11																				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4878	4878	4878	4878
5°	5817	4900	4341	4900
10°	7282	4875	3922	4875
15°	8931	4835	3651	4835
20°	10639	4774	3477	4774
25°	11297	4700	3437	4700
30°	9684	4645	3455	4645
35°	6734	4568	3491	4568
40°	5073	4477	3481	4477
45°	4211	4341	3436	4341
50°	3773	4068	3404	4068
55°	3526	3772	3363	3772
60°	3309	3460	3328	3460
65°	3110	3156	3222	3156
70°	2917	2807	3068	2807
75°	2612	2458	2816	2458
80°	2287	2015	2424	2015
85°	1791	1470	1630	1470



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.4
10°-20°	143.2	4.4
20°-30°	240.3	7.4
30°-40°	272.0	8.3
40°-50°	244.0	7.5
50°-60°	196.9	6.0
60°-70°	137.2	4.2
70°-80°	72.1	2.2
80°-90°	19.7	0.6
90°-100°	44.6	1.4
100°-110°	133.4	4.1
110°-120°	227.0	6.9
120°-130°	298.5	9.1
130°-140°	335.6	10.3
140°-150°	329.8	10.1
150°-160°	277.7	8.5
160°-170°	184.8	5.7
170°-180°	64.7	2.0
0°-30°	428.1	13.1
0°-40°	700.1	21.4
0°-60°	1140.9	34.9
0°-90°	1369.9	41.9
90°-120°	405.0	12.4
90°-150°	1368.9	41.9
90°-180°	1896.0	58.1
0°-180°	3266.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	538	454	402	454	538	56
15°	801	434	328	434	801	231
25°	951	396	289	396	951	417
35°	512	348	266	348	512	333
45°	277	285	226	285	277	219
55°	188	201	179	201	188	169
65°	122	124	126	124	122	122
75°	63	59	68	59	63	67
85°	14	12	13	12	14	18
90°	16	1	16	1	16	9
95°	42	32	42	32	42	43
105°	128	121	128	121	128	136
115°	229	228	229	228	229	227
125°	331	334	331	334	331	296
135°	433	434	433	434	433	333
145°	526	526	526	526	526	329
155°	602	603	602	603	602	277
165°	654	656	654	656	654	185
175°	680	683	680	683	680	65
180°	684	684	684	684	684	



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	481.0	480.6	479.8	480.4	479.0	477.1	476.9	475.1	470.0	469.8	468.3
5°	538.4	536.7	536.4	536.2	533.1	529.0	521.0	520.4	509.8	504.6	498.2
7.5°	612.8	613.7	610.5	607.8	598.3	592.1	583.6	572.8	559.9	546.7	538.0
10°	666.2	673.4	664.5	658.3	652.6	641.9	629.3	613.7	598.1	579.9	566.1
12.5°	723.5	727.0	725.2	719.4	710.6	694.2	672.0	654.8	640.5	610.1	597.9
15°	801.4	814.8	806.3	786.6	786.9	771.4	742.4	710.6	693.6	667.0	630.8
17.5°	884.6	886.2	882.6	866.1	855.2	833.7	806.9	776.5	742.2	710.0	671.6
20°	928.8	927.5	919.8	911.3	892.4	875.7	846.5	812.5	768.5	736.9	694.9
22.5°	953.4	951.2	947.5	940.4	924.7	906.8	880.5	843.4	801.5	758.0	709.5
25°	951.2	954.0	954.5	952.5	947.1	936.3	915.7	886.0	844.3	788.2	737.8
27.5°	865.2	869.2	880.9	891.4	903.0	914.8	913.2	898.5	867.6	819.3	757.5
30°	779.1	770.2	792.0	819.4	838.1	871.1	889.5	890.6	873.3	831.8	771.6
32.5°	659.6	669.3	678.9	712.7	753.5	790.4	827.2	856.7	860.1	832.5	779.9
35°	512.5	524.6	542.2	559.7	603.6	641.4	706.0	762.1	806.9	812.8	780.6
37.5°	413.0	419.0	430.1	447.7	476.4	521.2	571.1	642.2	707.1	755.4	757.4
40°	361.0	362.8	375.2	388.6	411.9	448.8	493.8	556.7	634.3	701.8	729.9
42.5°	322.0	325.8	331.2	344.0	362.6	390.3	432.2	484.1	555.3	632.9	687.9
45°	276.6	281.1	284.4	292.9	306.1	324.8	353.9	401.4	455.6	535.7	609.7
47.5°	246.8	247.0	249.5	256.0	264.9	279.0	299.6	330.1	379.8	444.9	520.8
50°	225.3	228.8	229.7	234.7	241.8	252.0	269.2	295.1	335.9	393.0	462.9
52.5°	210.2	211.2	213.7	217.4	223.5	231.5	246.4	266.6	298.7	347.4	411.6
55°	187.9	187.9	190.4	193.2	196.7	204.0	213.9	228.8	253.2	291.0	344.1
57.5°	167.4	168.5	170.2	171.1	174.1	178.9	187.1	198.5	216.6	245.7	287.9
60°	153.7	155.7	155.4	157.2	159.9	163.6	170.6	179.8	196.0	219.3	255.0
62.5°	141.8	141.7	141.6	143.7	146.3	149.9	154.5	162.4	176.3	196.9	227.2
65°	122.1	121.7	123.2	124.5	125.4	128.0	131.5	138.6	147.8	163.2	186.6
67.5°	104.6	103.3	104.2	104.6	106.1	108.2	111.5	115.8	123.1	135.4	153.2
70°	92.7	91.5	91.3	91.8	93.1	94.6	97.1	101.2	108.0	117.9	130.8
72.5°	80.4	79.6	79.6	80.6	81.2	82.2	83.9	87.7	93.1	100.6	112.6
75°	62.8	62.8	62.8	63.1	63.7	64.6	65.9	67.9	72.0	77.3	85.4
77.5°	47.0	47.0	46.8	46.8	47.7	48.1	48.4	50.2	52.6	56.1	62.0
80°	36.9	35.8	36.2	36.9	37.3	37.5	38.2	38.6	40.6	42.6	46.8
82.5°	27.4	26.5	26.6	27.6	27.7	27.9	28.6	29.1	29.9	31.7	33.9
85°	14.5	14.5	14.7	14.7	14.9	14.7	15.4	15.6	15.6	16.7	18.0
87.5°	8.5	8.1	8.2	8.4	8.1	8.2	8.3	8.4	8.5	8.6	8.4
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4	21.0	20.6	19.8
95°	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7	40.2	39.8	38.8
97.5°	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3	62.8	62.3	61.5
100°	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7	79.4	79.0	78.4
102.5°	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7	98.3	97.9	97.2
105°	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9	126.9	126.9	125.8
107.5°	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4	157.0	156.7	156.3
110°	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9	177.4	176.9	176.6



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2	197.7	197.1	197.1
115°	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2	229.1	229.0	229.2
117.5°	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6	260.6	260.6	261.0
120°	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4	281.6	281.7	282.3
122.5°	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6	302.9	303.2	303.5
125°	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9	334.4	335.0	335.2
127.5°	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0	365.7	366.4	366.6
130°	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6	386.1	386.5	386.9
132.5°	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6	406.1	406.8	407.0
135°	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5	436.1	436.6	436.7
137.5°	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9	465.4	465.9	465.6
140°	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2	484.3	484.4	484.3
142.5°	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2	502.4	502.5	502.3
145°	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8	528.9	529.0	528.7
147.5°	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8	553.8	553.8	553.6
150°	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3	569.3	569.3	569.1
152.5°	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5	583.2	583.1	583.0
155°	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2	603.7	603.2	603.1
157.5°	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0	621.4	620.9	620.9
160°	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9	632.3	631.7	631.7
162.5°	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2	642.6	642.1	642.0
165°	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3	655.5	654.8	654.8
167.5°	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8	666.1	665.3	665.2
170°	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6	671.8	670.9	670.9
172.5°	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1	676.5	675.7	675.7
175°	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0	681.4	680.6	680.6
177.5°	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3	683.6	683.1	683.1
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	467.2	465.9	464.5	462.0	459.9	456.9	456.0	455.0	451.8	449.0	446.9
5°	495.8	490.5	482.9	475.8	470.1	462.4	458.1	453.5	446.9	440.9	436.1
7.5°	525.7	515.3	503.3	490.5	478.4	466.8	457.5	449.1	439.9	431.2	424.3
10°	549.4	534.4	517.7	499.7	484.4	469.5	456.9	446.0	434.1	423.8	415.2
12.5°	576.5	554.3	531.3	509.4	491.3	470.5	455.3	441.4	427.9	415.6	406.0
15°	608.4	580.3	553.1	523.0	495.4	469.5	451.5	433.9	418.3	405.6	393.2
17.5°	637.6	605.8	569.9	533.3	499.9	469.2	444.0	424.1	404.6	389.1	376.8
20°	654.1	617.9	577.3	539.3	502.4	468.2	440.5	416.8	395.7	379.2	365.4
22.5°	668.4	625.9	583.9	543.3	502.2	465.3	433.9	409.5	386.7	370.6	355.9
25°	683.2	632.4	590.2	542.6	496.7	458.5	423.4	395.7	372.9	353.9	338.8
27.5°	695.8	632.0	581.9	530.7	488.0	449.7	412.2	382.5	358.3	337.7	322.3
30°	704.2	632.8	573.3	522.6	479.6	440.1	403.6	373.7	348.3	327.4	312.9
32.5°	709.5	632.3	565.4	511.3	466.2	431.2	394.3	363.4	337.1	316.7	302.7
35°	712.6	628.4	551.8	488.1	444.7	410.6	379.7	347.6	320.2	301.0	285.2
37.5°	706.3	620.3	536.0	465.7	418.1	384.7	358.5	331.3	305.0	284.0	270.3
40°	696.7	615.0	523.7	449.9	399.8	367.6	345.4	318.6	292.7	272.7	260.0
42.5°	678.3	604.4	510.2	432.3	380.9	348.6	328.2	305.8	281.3	262.5	249.8
45°	633.3	581.0	489.8	406.0	352.9	319.5	301.5	285.2	263.1	244.9	233.8
47.5°	570.8	545.9	460.5	378.2	323.6	291.5	272.8	259.8	243.6	228.8	218.3
50°	527.4	517.1	440.7	359.2	304.2	272.7	254.7	242.9	231.2	216.5	206.9
52.5°	477.4	483.7	417.5	339.6	284.3	253.4	236.5	227.1	216.5	204.3	196.0
55°	406.9	429.9	377.5	306.5	254.7	225.3	209.2	201.0	194.7	185.8	178.5
57.5°	340.9	370.2	334.1	272.5	225.6	200.3	184.9	175.9	171.9	167.2	161.5
60°	301.7	330.6	303.2	249.7	206.2	182.0	168.4	160.7	156.7	153.4	148.6
62.5°	266.7	296.1	273.1	226.5	187.0	164.7	152.8	145.2	142.2	140.5	136.4
65°	218.7	243.9	228.6	190.4	159.7	139.9	129.1	123.9	121.0	120.4	117.7
67.5°	178.0	197.2	186.1	157.9	133.7	116.7	107.5	103.0	100.9	100.6	98.6
70°	151.3	169.3	160.7	135.3	114.4	101.0	93.1	89.2	87.8	87.7	86.5
72.5°	130.5	143.1	136.3	115.1	99.0	86.8	81.0	76.8	75.4	75.7	74.9
75°	96.6	106.0	102.1	87.4	74.5	66.5	61.7	59.1	57.8	58.4	57.5
77.5°	69.6	75.5	71.9	61.7	53.7	48.1	44.5	42.9	41.7	41.7	41.3
80°	52.5	56.0	54.0	47.9	41.3	36.5	33.6	32.5	31.9	31.6	31.4
82.5°	37.4	40.3	38.0	33.8	29.3	26.4	24.8	23.4	22.9	23.0	22.8
85°	18.9	20.0	19.1	16.5	14.7	13.4	12.5	11.9	11.4	11.6	11.2
87.5°	8.5	8.3	7.4	6.5	5.9	5.2	4.9	4.3	4.2	4.4	4.5
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0	13.9	14.6	15.5
95°	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8	32.5	33.4	34.2
97.5°	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4	56.9	57.6	58.2
100°	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1	73.8	74.6	75.3
102.5°	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5	92.9	93.3	93.8
105°	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9	121.2	121.4	121.7
107.5°	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1	154.2	154.4	154.5
110°	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7	174.9	175.2	175.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2	196.3	196.5	196.6
115°	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5	228.8	229.2	229.6
117.5°	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0	261.2	261.5	261.6
120°	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2	281.9	282.6	283.3
122.5°	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3	302.7	303.3	303.8
125°	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4	334.8	335.1	335.5
127.5°	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1	364.9	365.6	366.4
130°	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9	384.8	385.8	386.7
132.5°	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6	404.6	405.6	406.5
135°	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9	434.6	435.3	436.0
137.5°	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8	462.4	463.0	463.6
140°	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2	481.7	482.4	483.0
142.5°	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8	499.4	500.0	500.6
145°	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3	526.6	526.8	527.1
147.5°	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4	550.8	551.3	551.7
150°	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2	567.4	567.7	567.9
152.5°	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0	581.3	581.6	581.9
155°	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
157.5°	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1	621.0	620.9	620.8
160°	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7	632.5	632.3	632.1
162.5°	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1	642.7	642.4	642.1
165°	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4	656.1	655.7	655.3
167.5°	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0	666.6	666.1	665.6
170°	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1	672.6	672.1	671.7
172.5°	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8	677.3	676.8	676.4
175°	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8	682.3	681.8	681.4
177.5°	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9	684.5	684.1	683.6
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	445.6	444.4	442.7	440.1	437.9	434.6	434.6	435.1	435.1	435.0	434.6
5°	432.2	428.9	424.9	420.3	415.5	410.6	409.7	407.9	406.7	405.8	404.7
7.5°	417.8	412.0	406.2	399.8	393.9	389.1	385.7	382.9	381.1	379.1	377.7
10°	408.2	401.0	394.2	387.4	379.8	373.9	370.2	367.6	365.6	363.8	363.0
12.5°	396.8	388.5	381.0	374.5	366.4	360.2	356.7	355.4	353.2	349.4	347.5
15°	380.1	372.4	363.4	353.5	349.6	342.1	337.9	335.9	334.6	331.8	330.9
17.5°	365.8	355.8	345.6	338.3	330.9	324.9	322.5	320.1	318.4	316.0	315.3
20°	354.4	345.4	336.2	328.3	320.6	314.0	312.0	310.3	308.5	307.5	306.5
22.5°	342.8	333.8	326.1	318.8	310.6	306.2	304.2	302.2	301.0	300.2	299.4
25°	326.5	318.6	310.0	303.5	296.9	294.0	292.7	291.6	290.7	289.6	289.4
27.5°	312.0	303.3	296.4	290.2	285.5	283.1	281.8	281.3	281.5	281.9	282.2
30°	301.0	293.1	287.5	282.2	277.8	275.6	275.3	275.3	276.3	276.4	276.9
32.5°	291.1	284.6	278.8	273.7	270.4	268.9	269.8	269.8	270.4	271.0	271.8
35°	276.4	270.7	266.4	261.9	259.1	259.8	260.2	260.6	261.7	263.1	263.9
37.5°	262.5	257.6	253.0	249.6	248.3	249.4	250.5	251.4	252.7	253.7	254.6
40°	252.5	248.7	244.4	241.3	241.8	242.4	243.3	244.4	245.5	246.2	247.0
42.5°	243.2	239.3	235.9	233.4	234.0	234.9	235.4	235.9	237.2	238.5	238.9
45°	229.0	225.9	222.9	221.3	221.8	222.3	222.6	223.3	224.4	225.3	225.6
47.5°	213.1	210.9	208.9	207.4	208.1	207.9	208.5	209.9	210.2	210.8	212.0
50°	202.9	201.0	198.5	198.0	198.0	198.0	198.3	200.0	200.0	201.0	201.8
52.5°	191.6	190.4	188.9	188.0	187.7	187.7	188.6	189.5	189.8	191.1	192.0
55°	175.0	173.7	172.4	171.7	171.3	171.7	173.4	173.9	175.0	175.7	176.3
57.5°	157.7	156.7	155.6	155.2	155.1	155.7	156.7	158.0	158.3	160.3	161.3
60°	146.3	144.7	143.8	143.8	143.4	145.3	145.0	147.1	147.6	148.9	150.4
62.5°	134.5	132.4	132.1	132.1	132.7	133.3	133.8	134.8	136.0	137.6	138.8
65°	115.5	114.4	115.9	115.7	115.3	116.6	116.6	117.7	119.0	120.6	123.0
67.5°	97.6	97.0	97.1	97.1	97.7	98.5	99.2	100.1	101.7	103.3	104.9
70°	85.4	86.1	85.0	85.9	86.5	86.7	87.2	88.5	90.2	91.3	93.1
72.5°	73.6	73.6	73.7	74.1	74.7	75.1	75.6	77.1	79.0	79.9	81.3
75°	56.6	56.5	57.1	57.1	58.2	58.6	59.1	59.8	61.5	62.8	63.9
77.5°	41.4	41.7	41.5	42.2	41.9	42.0	43.4	44.0	44.2	46.8	47.4
80°	31.2	31.6	31.9	32.0	32.2	31.9	33.4	34.0	34.0	35.5	36.7
82.5°	22.4	22.6	23.2	23.5	23.5	23.9	24.0	24.5	25.1	25.7	27.1
85°	11.2	11.9	12.1	11.9	12.1	11.6	12.3	12.5	12.7	12.7	12.7
87.5°	4.6	5.0	5.2	5.7	5.7	6.3	6.4	6.1	6.2	6.8	6.2
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4	21.8	22.1	22.3
95°	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7	41.2	41.7	41.9
97.5°	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3	63.9	64.5	64.7
100°	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7	80.1	80.5	80.8
102.5°	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7	99.1	99.3	99.5
105°	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9	126.9	126.9	127.0
107.5°	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4	157.8	158.2	158.3
110°	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9	178.3	178.8	178.9



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2	198.8	199.3	199.6
115°	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2	229.4	229.5	229.5
117.5°	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6	260.5	260.5	260.3
120°	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4	281.3	281.3	281.1
122.5°	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6	302.3	302.0	301.6
125°	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9	333.5	333.0	332.5
127.5°	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0	364.3	363.6	363.1
130°	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6	385.1	384.7	384.0
132.5°	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6	405.0	404.4	403.9
135°	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5	435.1	434.6	434.2
137.5°	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9	464.4	463.9	463.4
140°	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2	484.0	483.9	483.4
142.5°	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2	502.1	502.0	501.6
145°	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8	528.7	528.6	528.2
147.5°	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8	553.8	553.8	553.5
150°	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3	569.3	569.3	569.0
152.5°	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5	583.7	583.9	583.6
155°	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2	604.6	605.1	604.9
157.5°	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0	622.5	622.9	622.8
160°	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9	633.5	634.0	634.1
162.5°	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2	643.9	644.4	644.3
165°	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3	657.0	657.7	657.6
167.5°	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8	667.6	668.4	668.4
170°	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6	673.4	674.3	674.3
172.5°	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1	677.9	678.6	678.6
175°	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0	682.8	683.5	683.4
177.5°	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3	684.9	685.4	685.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	433.4	433.2	434.4	433.6	434.4	433.2	433.4	434.6	435.0	435.1	435.1
5°	403.4	404.1	401.8	401.8	401.8	404.1	403.4	404.7	405.8	406.7	407.9
7.5°	376.6	375.7	375.8	374.6	375.8	375.7	376.6	377.7	379.1	381.1	382.9
10°	360.3	359.0	358.5	358.8	358.5	359.0	360.3	363.0	363.8	365.6	367.6
12.5°	346.8	346.6	343.7	343.7	343.7	346.6	346.8	347.5	349.4	353.2	355.4
15°	330.9	326.8	326.3	327.6	326.3	326.8	330.9	330.9	331.8	334.6	335.9
17.5°	315.0	312.7	312.9	312.3	312.9	312.7	315.0	315.3	316.0	318.4	320.1
20°	306.5	305.2	305.0	303.5	305.0	305.2	306.5	306.5	307.5	308.5	310.3
22.5°	298.8	298.4	298.5	296.8	298.5	298.4	298.8	299.4	300.2	301.0	302.2
25°	289.2	290.3	289.4	289.4	289.4	290.3	289.2	289.4	289.6	290.7	291.6
27.5°	282.7	282.7	282.2	282.2	282.2	282.7	282.7	282.2	281.9	281.5	281.3
30°	277.8	277.6	278.0	278.0	278.0	277.6	277.8	276.9	276.4	276.3	275.3
32.5°	272.9	273.1	273.2	273.4	273.2	273.1	272.9	271.8	271.0	270.4	269.8
35°	265.2	265.5	266.2	265.7	266.2	265.5	265.2	263.9	263.1	261.7	260.6
37.5°	255.0	256.0	255.8	256.1	255.8	256.0	255.0	254.6	253.7	252.7	251.4
40°	247.2	247.9	247.7	247.7	247.7	247.9	247.2	247.0	246.2	245.5	244.4
42.5°	239.3	239.8	239.2	238.9	239.2	239.8	239.3	238.9	238.5	237.2	235.9
45°	226.4	225.9	226.6	225.7	226.6	225.9	226.4	225.6	225.3	224.4	223.3
47.5°	211.9	212.4	212.5	213.2	212.5	212.4	211.9	212.0	210.8	210.2	209.9
50°	202.3	203.6	203.6	203.3	203.6	203.6	202.3	201.8	201.0	200.0	200.0
52.5°	192.7	193.3	194.3	194.2	194.3	193.3	192.7	192.0	191.1	189.8	189.5
55°	178.0	178.5	179.0	179.2	179.0	178.5	178.0	176.3	175.7	175.0	173.9
57.5°	162.9	162.7	163.7	164.1	163.7	162.7	162.9	161.3	160.3	158.3	158.0
60°	152.1	152.1	153.9	154.6	153.9	152.1	152.1	150.4	148.9	147.6	147.1
62.5°	140.7	141.5	143.2	142.3	143.2	141.5	140.7	138.8	137.6	136.0	134.8
65°	124.0	125.8	125.6	126.5	125.6	125.8	124.0	123.0	120.6	119.0	117.7
67.5°	106.6	107.7	109.3	109.4	109.3	107.7	106.6	104.9	103.3	101.7	100.1
70°	94.8	96.0	96.8	97.5	96.8	96.0	94.8	93.1	91.3	90.2	88.5
72.5°	83.4	84.0	86.1	85.2	86.1	84.0	83.4	81.3	79.9	79.0	77.1
75°	65.4	67.0	68.3	67.7	68.3	67.0	65.4	63.9	62.8	61.5	59.8
77.5°	48.4	50.0	50.5	50.0	50.5	50.0	48.4	47.4	46.8	44.2	44.0
80°	38.2	38.0	39.3	39.1	39.3	38.0	38.2	36.7	35.5	34.0	34.0
82.5°	28.0	27.8	28.4	28.6	28.4	27.8	28.0	27.1	25.7	25.1	24.5
85°	13.6	14.2	13.4	13.2	13.4	14.2	13.6	12.7	12.7	12.7	12.5
87.5°	6.2	6.3	6.1	6.0	6.1	6.3	6.2	6.2	6.8	6.2	6.1
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	22.1	22.0	21.9	21.7	21.9	22.0	22.1	22.3	22.1	21.8	21.4
95°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7	41.2	40.7
97.5°	64.7	64.6	64.6	64.5	64.6	64.6	64.7	64.7	64.5	63.9	63.3
100°	81.0	81.2	81.4	81.7	81.4	81.2	81.0	80.8	80.5	80.1	79.7
102.5°	99.5	99.4	99.4	99.3	99.4	99.4	99.5	99.5	99.3	99.1	98.7
105°	127.2	127.4	127.7	128.0	127.7	127.4	127.2	127.0	126.9	126.9	126.9
107.5°	158.2	158.1	157.9	157.8	157.9	158.1	158.2	158.3	158.2	157.8	157.4
110°	178.7	178.4	178.2	178.0	178.2	178.4	178.7	178.9	178.8	178.3	177.9



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	199.6	199.5	199.5	199.4	199.5	199.5	199.6	199.6	199.3	198.8	198.2
115°	229.4	229.2	229.1	229.0	229.1	229.2	229.4	229.5	229.5	229.4	229.2
117.5°	260.0	259.7	259.4	259.0	259.4	259.7	260.0	260.3	260.5	260.5	260.6
120°	280.8	280.6	280.3	280.1	280.3	280.6	280.8	281.1	281.3	281.3	281.4
122.5°	301.3	301.0	300.7	300.3	300.7	301.0	301.3	301.6	302.0	302.3	302.6
125°	332.1	331.6	331.1	330.6	331.1	331.6	332.1	332.5	333.0	333.5	333.9
127.5°	362.5	361.9	361.4	360.8	361.4	361.9	362.5	363.1	363.6	364.3	365.0
130°	383.1	382.3	381.4	380.6	381.4	382.3	383.1	384.0	384.7	385.1	385.6
132.5°	403.2	402.6	401.9	401.2	401.9	402.6	403.2	403.9	404.4	405.0	405.6
135°	434.0	433.8	433.6	433.3	433.6	433.8	434.0	434.2	434.6	435.1	435.5
137.5°	463.0	462.5	462.0	461.6	462.0	462.5	463.0	463.4	463.9	464.4	464.9
140°	482.6	481.7	480.9	480.1	480.9	481.7	482.6	483.4	483.9	484.0	484.2
142.5°	501.0	500.3	499.6	499.0	499.6	500.3	501.0	501.6	502.0	502.1	502.2
145°	527.7	527.3	526.8	526.3	526.8	527.3	527.7	528.2	528.6	528.7	528.8
147.5°	552.8	552.0	551.4	550.6	551.4	552.0	552.8	553.5	553.8	553.8	553.8
150°	568.3	567.5	566.8	566.1	566.8	567.5	568.3	569.0	569.3	569.3	569.3
152.5°	583.1	582.4	581.8	581.2	581.8	582.4	583.1	583.6	583.9	583.7	583.5
155°	604.1	603.2	602.5	601.6	602.5	603.2	604.1	604.9	605.1	604.6	604.2
157.5°	622.2	621.5	620.9	620.2	620.9	621.5	622.2	622.8	622.9	622.5	622.0
160°	633.7	633.2	632.7	632.3	632.7	633.2	633.7	634.1	634.0	633.5	632.9
162.5°	643.6	642.8	642.1	641.3	642.1	642.8	643.6	644.3	644.4	643.9	643.2
165°	656.8	655.9	655.2	654.3	655.2	655.9	656.8	657.6	657.7	657.0	656.3
167.5°	667.6	666.8	666.1	665.3	666.1	666.8	667.6	668.4	668.4	667.6	666.8
170°	673.4	672.6	671.8	670.9	671.8	672.6	673.4	674.3	674.3	673.4	672.6
172.5°	677.8	676.9	676.1	675.2	676.1	676.9	677.8	678.6	678.6	677.9	677.1
175°	682.6	681.7	680.9	680.0	680.9	681.7	682.6	683.4	683.5	682.8	682.0
177.5°	684.7	684.0	683.3	682.7	683.3	684.0	684.7	685.3	685.4	684.9	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	434.6	434.6	437.9	440.1	442.7	444.4	445.6	446.9	449.0	451.8	455.0
5°	409.7	410.6	415.5	420.3	424.9	428.9	432.2	436.1	440.9	446.9	453.5
7.5°	385.7	389.1	393.9	399.8	406.2	412.0	417.8	424.3	431.2	439.9	449.1
10°	370.2	373.9	379.8	387.4	394.2	401.0	408.2	415.2	423.8	434.1	446.0
12.5°	356.7	360.2	366.4	374.5	381.0	388.5	396.8	406.0	415.6	427.9	441.4
15°	337.9	342.1	349.6	353.5	363.4	372.4	380.1	393.2	405.6	418.3	433.9
17.5°	322.5	324.9	330.9	338.3	345.6	355.8	365.8	376.8	389.1	404.6	424.1
20°	312.0	314.0	320.6	328.3	336.2	345.4	354.4	365.4	379.2	395.7	416.8
22.5°	304.2	306.2	310.6	318.8	326.1	333.8	342.8	355.9	370.6	386.7	409.5
25°	292.7	294.0	296.9	303.5	310.0	318.6	326.5	338.8	353.9	372.9	395.7
27.5°	281.8	283.1	285.5	290.2	296.4	303.3	312.0	322.3	337.7	358.3	382.5
30°	275.3	275.6	277.8	282.2	287.5	293.1	301.0	312.9	327.4	348.3	373.7
32.5°	269.8	268.9	270.4	273.7	278.8	284.6	291.1	302.7	316.7	337.1	363.4
35°	260.2	259.8	259.1	261.9	266.4	270.7	276.4	285.2	301.0	320.2	347.6
37.5°	250.5	249.4	248.3	249.6	253.0	257.6	262.5	270.3	284.0	305.0	331.3
40°	243.3	242.4	241.8	241.3	244.4	248.7	252.5	260.0	272.7	292.7	318.6
42.5°	235.4	234.9	234.0	233.4	235.9	239.3	243.2	249.8	262.5	281.3	305.8
45°	222.6	222.3	221.8	221.3	222.9	225.9	229.0	233.8	244.9	263.1	285.2
47.5°	208.5	207.9	208.1	207.4	208.9	210.9	213.1	218.3	228.8	243.6	259.8
50°	198.3	198.0	198.0	198.0	198.5	201.0	202.9	206.9	216.5	231.2	242.9
52.5°	188.6	187.7	187.7	188.0	188.9	190.4	191.6	196.0	204.3	216.5	227.1
55°	173.4	171.7	171.3	171.7	172.4	173.7	175.0	178.5	185.8	194.7	201.0
57.5°	156.7	155.7	155.1	155.2	155.6	156.7	157.7	161.5	167.2	171.9	175.9
60°	145.0	145.3	143.4	143.8	143.8	144.7	146.3	148.6	153.4	156.7	160.7
62.5°	133.8	133.3	132.7	132.1	132.1	132.4	134.5	136.4	140.5	142.2	145.2
65°	116.6	116.6	115.3	115.7	115.9	114.4	115.5	117.7	120.4	121.0	123.9
67.5°	99.2	98.5	97.7	97.1	97.1	97.0	97.6	98.6	100.6	100.9	103.0
70°	87.2	86.7	86.5	85.9	85.0	86.1	85.4	86.5	87.7	87.8	89.2
72.5°	75.6	75.1	74.7	74.1	73.7	73.6	73.6	74.9	75.7	75.4	76.8
75°	59.1	58.6	58.2	57.1	57.1	56.5	56.6	57.5	58.4	57.8	59.1
77.5°	43.4	42.0	41.9	42.2	41.5	41.7	41.4	41.3	41.7	41.7	42.9
80°	33.4	31.9	32.2	32.0	31.9	31.6	31.2	31.4	31.6	31.9	32.5
82.5°	24.0	23.9	23.5	23.5	23.2	22.6	22.4	22.8	23.0	22.9	23.4
85°	12.3	11.6	12.1	11.9	12.1	11.9	11.2	11.2	11.6	11.4	11.9
87.5°	6.4	6.3	5.7	5.7	5.2	5.0	4.6	4.5	4.4	4.2	4.3
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	21.0	20.6	19.8	18.9	18.0	17.2	16.3	15.5	14.6	13.9	13.0
95°	40.2	39.8	38.8	37.9	36.9	36.0	35.1	34.2	33.4	32.5	31.8
97.5°	62.8	62.3	61.5	60.9	60.1	59.5	58.8	58.2	57.6	56.9	56.4
100°	79.4	79.0	78.4	77.9	77.2	76.6	76.0	75.3	74.6	73.8	73.1
102.5°	98.3	97.9	97.2	96.4	95.6	94.8	94.2	93.8	93.3	92.9	92.5
105°	126.9	126.9	125.8	124.7	123.7	122.5	122.0	121.7	121.4	121.2	120.9
107.5°	157.0	156.7	156.3	155.8	155.3	155.0	154.7	154.5	154.4	154.2	154.1
110°	177.4	176.9	176.6	176.4	176.2	175.9	175.7	175.4	175.2	174.9	174.7



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	197.7	197.1	197.1	197.0	197.0	196.9	196.8	196.6	196.5	196.3	196.2
115°	229.1	229.0	229.2	229.5	229.7	230.0	229.9	229.6	229.2	228.8	228.5
117.5°	260.6	260.6	261.0	261.3	261.6	261.8	261.9	261.6	261.5	261.2	261.0
120°	281.6	281.7	282.3	283.0	283.5	284.1	284.1	283.3	282.6	281.9	281.2
122.5°	302.9	303.2	303.5	303.9	304.2	304.4	304.3	303.8	303.3	302.7	302.3
125°	334.4	335.0	335.2	335.5	335.6	335.9	335.8	335.5	335.1	334.8	334.4
127.5°	365.7	366.4	366.6	366.8	367.1	367.4	367.1	366.4	365.6	364.9	364.1
130°	386.1	386.5	386.9	387.3	387.7	388.0	387.7	386.7	385.8	384.8	383.9
132.5°	406.1	406.8	407.0	407.3	407.6	407.8	407.5	406.5	405.6	404.6	403.6
135°	436.1	436.6	436.7	436.8	436.9	437.1	436.7	436.0	435.3	434.6	433.9
137.5°	465.4	465.9	465.6	465.2	465.0	464.7	464.2	463.6	463.0	462.4	461.8
140°	484.3	484.4	484.3	484.2	484.0	483.9	483.5	483.0	482.4	481.7	481.2
142.5°	502.4	502.5	502.3	502.0	501.8	501.6	501.1	500.6	500.0	499.4	498.8
145°	528.9	529.0	528.7	528.3	527.9	527.5	527.3	527.1	526.8	526.6	526.3
147.5°	553.8	553.8	553.6	553.2	552.9	552.5	552.1	551.7	551.3	550.8	550.4
150°	569.3	569.3	569.1	568.8	568.6	568.4	568.2	567.9	567.7	567.4	567.2
152.5°	583.2	583.1	583.0	582.8	582.7	582.5	582.3	581.9	581.6	581.3	581.0
155°	603.7	603.2	603.1	602.9	602.9	602.8	602.7	602.7	602.7	602.7	602.7
157.5°	621.4	620.9	620.9	620.8	620.7	620.6	620.6	620.8	620.9	621.0	621.1
160°	632.3	631.7	631.7	631.7	631.7	631.7	631.8	632.1	632.3	632.5	632.7
162.5°	642.6	642.1	642.0	641.9	641.8	641.7	641.8	642.1	642.4	642.7	643.1
165°	655.5	654.8	654.8	654.8	654.8	654.8	655.0	655.3	655.7	656.1	656.4
167.5°	666.1	665.3	665.2	665.2	665.1	665.0	665.2	665.6	666.1	666.6	667.0
170°	671.8	670.9	670.9	670.9	670.9	670.9	671.2	671.7	672.1	672.6	673.1
172.5°	676.5	675.7	675.7	675.7	675.7	675.7	675.9	676.4	676.8	677.3	677.8
175°	681.4	680.6	680.6	680.6	680.6	680.6	680.9	681.4	681.8	682.3	682.8
177.5°	683.6	683.1	683.1	683.1	683.1	683.1	683.2	683.6	684.1	684.5	684.9
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	456.0	456.9	459.9	462.0	464.5	465.9	467.2	468.3	469.8	470.0	475.1
5°	458.1	462.4	470.1	475.8	482.9	490.5	495.8	498.2	504.6	509.8	520.4
7.5°	457.5	466.8	478.4	490.5	503.3	515.3	525.7	538.0	546.7	559.9	572.8
10°	456.9	469.5	484.4	499.7	517.7	534.4	549.4	566.1	579.9	598.1	613.7
12.5°	455.3	470.5	491.3	509.4	531.3	554.3	576.5	597.9	610.1	640.5	654.8
15°	451.5	469.5	495.4	523.0	553.1	580.3	608.4	630.8	667.0	693.6	710.6
17.5°	444.0	469.2	499.9	533.3	569.9	605.8	637.6	671.6	710.0	742.2	776.5
20°	440.5	468.2	502.4	539.3	577.3	617.9	654.1	694.9	736.9	768.5	812.5
22.5°	433.9	465.3	502.2	543.3	583.9	625.9	668.4	709.5	758.0	801.5	843.4
25°	423.4	458.5	496.7	542.6	590.2	632.4	683.2	737.8	788.2	844.3	886.0
27.5°	412.2	449.7	488.0	530.7	581.9	632.0	695.8	757.5	819.3	867.6	898.5
30°	403.6	440.1	479.6	522.6	573.3	632.8	704.2	771.6	831.8	873.3	890.6
32.5°	394.3	431.2	466.2	511.3	565.4	632.3	709.5	779.9	832.5	860.1	856.7
35°	379.7	410.6	444.7	488.1	551.8	628.4	712.6	780.6	812.8	806.9	762.1
37.5°	358.5	384.7	418.1	465.7	536.0	620.3	706.3	757.4	755.4	707.1	642.2
40°	345.4	367.6	399.8	449.9	523.7	615.0	696.7	729.9	701.8	634.3	556.7
42.5°	328.2	348.6	380.9	432.3	510.2	604.4	678.3	687.9	632.9	555.3	484.1
45°	301.5	319.5	352.9	406.0	489.8	581.0	633.3	609.7	535.7	455.6	401.4
47.5°	272.8	291.5	323.6	378.2	460.5	545.9	570.8	520.8	444.9	379.8	330.1
50°	254.7	272.7	304.2	359.2	440.7	517.1	527.4	462.9	393.0	335.9	295.1
52.5°	236.5	253.4	284.3	339.6	417.5	483.7	477.4	411.6	347.4	298.7	266.6
55°	209.2	225.3	254.7	306.5	377.5	429.9	406.9	344.1	291.0	253.2	228.8
57.5°	184.9	200.3	225.6	272.5	334.1	370.2	340.9	287.9	245.7	216.6	198.5
60°	168.4	182.0	206.2	249.7	303.2	330.6	301.7	255.0	219.3	196.0	179.8
62.5°	152.8	164.7	187.0	226.5	273.1	296.1	266.7	227.2	196.9	176.3	162.4
65°	129.1	139.9	159.7	190.4	228.6	243.9	218.7	186.6	163.2	147.8	138.6
67.5°	107.5	116.7	133.7	157.9	186.1	197.2	178.0	153.2	135.4	123.1	115.8
70°	93.1	101.0	114.4	135.3	160.7	169.3	151.3	130.8	117.9	108.0	101.2
72.5°	81.0	86.8	99.0	115.1	136.3	143.1	130.5	112.6	100.6	93.1	87.7
75°	61.7	66.5	74.5	87.4	102.1	106.0	96.6	85.4	77.3	72.0	67.9
77.5°	44.5	48.1	53.7	61.7	71.9	75.5	69.6	62.0	56.1	52.6	50.2
80°	33.6	36.5	41.3	47.9	54.0	56.0	52.5	46.8	42.6	40.6	38.6
82.5°	24.8	26.4	29.3	33.8	38.0	40.3	37.4	33.9	31.7	29.9	29.1
85°	12.5	13.4	14.7	16.5	19.1	20.0	18.9	18.0	16.7	15.6	15.6
87.5°	4.9	5.2	5.9	6.5	7.4	8.3	8.5	8.4	8.6	8.5	8.4
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	13.9	14.6	15.5	16.3	17.2	18.0	18.9	19.8	20.6	21.0	21.4
95°	32.5	33.4	34.2	35.1	36.0	36.9	37.9	38.8	39.8	40.2	40.7
97.5°	56.9	57.6	58.2	58.8	59.5	60.1	60.9	61.5	62.3	62.8	63.3
100°	73.8	74.6	75.3	76.0	76.6	77.2	77.9	78.4	79.0	79.4	79.7
102.5°	92.9	93.3	93.8	94.2	94.8	95.6	96.4	97.2	97.9	98.3	98.7
105°	121.2	121.4	121.7	122.0	122.5	123.7	124.7	125.8	126.9	126.9	126.9
107.5°	154.2	154.4	154.5	154.7	155.0	155.3	155.8	156.3	156.7	157.0	157.4
110°	174.9	175.2	175.4	175.7	175.9	176.2	176.4	176.6	176.9	177.4	177.9



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	196.3	196.5	196.6	196.8	196.9	197.0	197.0	197.1	197.1	197.7	198.2
115°	228.8	229.2	229.6	229.9	230.0	229.7	229.5	229.2	229.0	229.1	229.2
117.5°	261.2	261.5	261.6	261.9	261.8	261.6	261.3	261.0	260.6	260.6	260.6
120°	281.9	282.6	283.3	284.1	284.1	283.5	283.0	282.3	281.7	281.6	281.4
122.5°	302.7	303.3	303.8	304.3	304.4	304.2	303.9	303.5	303.2	302.9	302.6
125°	334.8	335.1	335.5	335.8	335.9	335.6	335.5	335.2	335.0	334.4	333.9
127.5°	364.9	365.6	366.4	367.1	367.4	367.1	366.8	366.6	366.4	365.7	365.0
130°	384.8	385.8	386.7	387.7	388.0	387.7	387.3	386.9	386.5	386.1	385.6
132.5°	404.6	405.6	406.5	407.5	407.8	407.6	407.3	407.0	406.8	406.1	405.6
135°	434.6	435.3	436.0	436.7	437.1	436.9	436.8	436.7	436.6	436.1	435.5
137.5°	462.4	463.0	463.6	464.2	464.7	465.0	465.2	465.6	465.9	465.4	464.9
140°	481.7	482.4	483.0	483.5	483.9	484.0	484.2	484.3	484.4	484.3	484.2
142.5°	499.4	500.0	500.6	501.1	501.6	501.8	502.0	502.3	502.5	502.4	502.2
145°	526.6	526.8	527.1	527.3	527.5	527.9	528.3	528.7	529.0	528.9	528.8
147.5°	550.8	551.3	551.7	552.1	552.5	552.9	553.2	553.6	553.8	553.8	553.8
150°	567.4	567.7	567.9	568.2	568.4	568.6	568.8	569.1	569.3	569.3	569.3
152.5°	581.3	581.6	581.9	582.3	582.5	582.7	582.8	583.0	583.1	583.2	583.5
155°	602.7	602.7	602.7	602.7	602.8	602.9	602.9	603.1	603.2	603.7	604.2
157.5°	621.0	620.9	620.8	620.6	620.6	620.7	620.8	620.9	620.9	621.4	622.0
160°	632.5	632.3	632.1	631.8	631.7	631.7	631.7	631.7	631.7	632.3	632.9
162.5°	642.7	642.4	642.1	641.8	641.7	641.8	641.9	642.0	642.1	642.6	643.2
165°	656.1	655.7	655.3	655.0	654.8	654.8	654.8	654.8	654.8	655.5	656.3
167.5°	666.6	666.1	665.6	665.2	665.0	665.1	665.2	665.2	665.3	666.1	666.8
170°	672.6	672.1	671.7	671.2	670.9	670.9	670.9	670.9	670.9	671.8	672.6
172.5°	677.3	676.8	676.4	675.9	675.7	675.7	675.7	675.7	675.7	676.5	677.1
175°	682.3	681.8	681.4	680.9	680.6	680.6	680.6	680.6	680.6	681.4	682.0
177.5°	684.5	684.1	683.6	683.2	683.1	683.1	683.1	683.1	683.1	683.6	684.3
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4	684.4



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	476.9	477.1	479.0	480.4	479.8	480.6	481.0
5°	521.0	529.0	533.1	536.2	536.4	536.7	538.4
7.5°	583.6	592.1	598.3	607.8	610.5	613.7	612.8
10°	629.3	641.9	652.6	658.3	664.5	673.4	666.2
12.5°	672.0	694.2	710.6	719.4	725.2	727.0	723.5
15°	742.4	771.4	786.9	786.6	806.3	814.8	801.4
17.5°	806.9	833.7	855.2	866.1	882.6	886.2	884.6
20°	846.5	875.7	892.4	911.3	919.8	927.5	928.8
22.5°	880.5	906.8	924.7	940.4	947.5	951.2	953.4
25°	915.7	936.3	947.1	952.5	954.5	954.0	951.2
27.5°	913.2	914.8	903.0	891.4	880.9	869.2	865.2
30°	889.5	871.1	838.1	819.4	792.0	770.2	779.1
32.5°	827.2	790.4	753.5	712.7	678.9	669.3	659.6
35°	706.0	641.4	603.6	559.7	542.2	524.6	512.5
37.5°	571.1	521.2	476.4	447.7	430.1	419.0	413.0
40°	493.8	448.8	411.9	388.6	375.2	362.8	361.0
42.5°	432.2	390.3	362.6	344.0	331.2	325.8	322.0
45°	353.9	324.8	306.1	292.9	284.4	281.1	276.6
47.5°	299.6	279.0	264.9	256.0	249.5	247.0	246.8
50°	269.2	252.0	241.8	234.7	229.7	228.8	225.3
52.5°	246.4	231.5	223.5	217.4	213.7	211.2	210.2
55°	213.9	204.0	196.7	193.2	190.4	187.9	187.9
57.5°	187.1	178.9	174.1	171.1	170.2	168.5	167.4
60°	170.6	163.6	159.9	157.2	155.4	155.7	153.7
62.5°	154.5	149.9	146.3	143.7	141.6	141.7	141.8
65°	131.5	128.0	125.4	124.5	123.2	121.7	122.1
67.5°	111.5	108.2	106.1	104.6	104.2	103.3	104.6
70°	97.1	94.6	93.1	91.8	91.3	91.5	92.7
72.5°	83.9	82.2	81.2	80.6	79.6	79.6	80.4
75°	65.9	64.6	63.7	63.1	62.8	62.8	62.8
77.5°	48.4	48.1	47.7	46.8	46.8	47.0	47.0
80°	38.2	37.5	37.3	36.9	36.2	35.8	36.9
82.5°	28.6	27.9	27.7	27.6	26.6	26.5	27.4
85°	15.4	14.7	14.9	14.7	14.7	14.5	14.5
87.5°	8.3	8.2	8.1	8.4	8.2	8.1	8.5
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	21.8	22.1	22.3	22.1	22.0	21.9	21.7
95°	41.2	41.7	41.9	41.9	41.9	41.9	41.9
97.5°	63.9	64.5	64.7	64.7	64.6	64.6	64.5
100°	80.1	80.5	80.8	81.0	81.2	81.4	81.7
102.5°	99.1	99.3	99.5	99.5	99.4	99.4	99.3
105°	126.9	126.9	127.0	127.2	127.4	127.7	128.0
107.5°	157.8	158.2	158.3	158.2	158.1	157.9	157.8
110°	178.3	178.8	178.9	178.7	178.4	178.2	178.0



TEST NUMBER: P331875-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	198.8	199.3	199.6	199.6	199.5	199.5	199.4
115°	229.4	229.5	229.5	229.4	229.2	229.1	229.0
117.5°	260.5	260.5	260.3	260.0	259.7	259.4	259.0
120°	281.3	281.3	281.1	280.8	280.6	280.3	280.1
122.5°	302.3	302.0	301.6	301.3	301.0	300.7	300.3
125°	333.5	333.0	332.5	332.1	331.6	331.1	330.6
127.5°	364.3	363.6	363.1	362.5	361.9	361.4	360.8
130°	385.1	384.7	384.0	383.1	382.3	381.4	380.6
132.5°	405.0	404.4	403.9	403.2	402.6	401.9	401.2
135°	435.1	434.6	434.2	434.0	433.8	433.6	433.3
137.5°	464.4	463.9	463.4	463.0	462.5	462.0	461.6
140°	484.0	483.9	483.4	482.6	481.7	480.9	480.1
142.5°	502.1	502.0	501.6	501.0	500.3	499.6	499.0
145°	528.7	528.6	528.2	527.7	527.3	526.8	526.3
147.5°	553.8	553.8	553.5	552.8	552.0	551.4	550.6
150°	569.3	569.3	569.0	568.3	567.5	566.8	566.1
152.5°	583.7	583.9	583.6	583.1	582.4	581.8	581.2
155°	604.6	605.1	604.9	604.1	603.2	602.5	601.6
157.5°	622.5	622.9	622.8	622.2	621.5	620.9	620.2
160°	633.5	634.0	634.1	633.7	633.2	632.7	632.3
162.5°	643.9	644.4	644.3	643.6	642.8	642.1	641.3
165°	657.0	657.7	657.6	656.8	655.9	655.2	654.3
167.5°	667.6	668.4	668.4	667.6	666.8	666.1	665.3
170°	673.4	674.3	674.3	673.4	672.6	671.8	670.9
172.5°	677.9	678.6	678.6	677.8	676.9	676.1	675.2
175°	682.8	683.5	683.4	682.6	681.7	680.9	680.0
177.5°	684.9	685.4	685.3	684.7	684.0	683.3	682.7
180°	684.4	684.4	684.4	684.4	684.4	684.4	684.4

(END OF REPORT)