

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: P331876-940

Luminaire Tested: **S123DIP-S340D585U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331876-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17,
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-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 585 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3186.3 lumens
Efficiency: N/A
Efficacy: 124.5 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

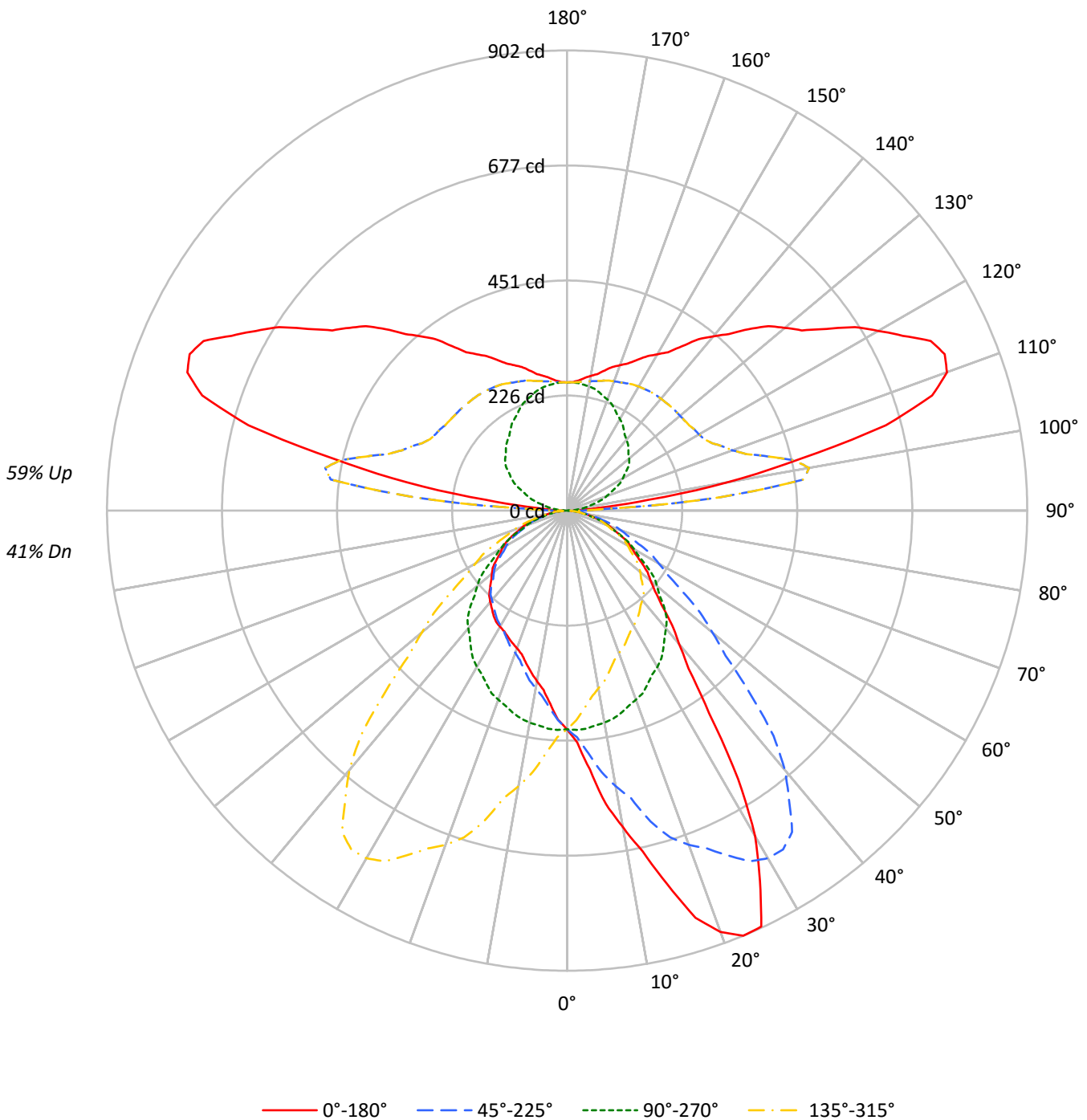
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	42	41	41	35
2	87	80	74	69	79	73	68	64	60	57	54	49	46	44	38	36	34	29
3	80	71	64	58	73	65	59	54	53	49	45	43	40	37	33	31	30	25
4	73	63	55	49	66	57	51	46	48	43	39	38	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	28	24	22	22	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

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	1.3
10°-20°	135.4	4.3
20°-30°	227.3	7.1
30°-40°	257.4	8.1
40°-50°	230.8	7.2
50°-60°	186.3	5.8
60°-70°	129.8	4.1
70°-80°	68.2	2.1
80°-90°	18.6	0.6
90°-100°	139.8	4.4
100°-110°	395.9	12.4
110°-120°	389.5	12.2
120°-130°	310.7	9.7
130°-140°	244.9	7.7
140°-150°	182.8	5.7
150°-160°	127.4	4.0
160°-170°	74.9	2.3
170°-180°	24.4	0.8
0°-30°	405.0	12.7
0°-40°	662.4	20.8
0°-60°	1079.4	33.9
0°-90°	1296.0	40.7
90°-120°	925.2	29.0
90°-150°	1663.7	52.2
90°-180°	1890.0	59.3
0°-180°	3186.3	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	1	15	1	15	8
95°	59	17	59	17	59	106
105°	647	59	647	59	647	638
115°	787	104	787	104	787	764
125°	620	145	620	145	620	562
135°	503	170	503	170	503	390
145°	393	194	393	194	393	250
155°	326	220	326	220	326	152
165°	284	241	284	241	284	81
175°	256	251	256	251	256	25
180°	251	251	251	251	251	



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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°	7.9	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.9	8.2	8.0
90°	14.7	15.2	14.7	14.3	14.7	13.7	13.2	12.8	12.2	12.8	11.1
92.5°	24.5	25.4	24.9	26.5	27.4	30.1	34.0	42.8	59.0	78.2	86.1
95°	59.0	61.0	64.6	69.2	78.8	97.1	124.1	183.1	244.6	301.6	268.6
97.5°	160.6	165.0	178.7	201.6	239.2	300.0	365.6	456.5	500.1	467.4	342.1
100°	318.9	318.4	338.2	375.3	426.7	498.9	558.5	599.7	581.8	481.6	325.5
102.5°	467.8	479.5	496.1	525.5	565.4	611.3	646.0	647.3	585.9	455.2	301.1
105°	646.9	649.5	665.8	685.1	708.5	721.8	712.0	661.2	554.9	408.9	271.1
107.5°	750.1	754.7	760.3	766.8	766.3	748.2	703.7	621.1	500.6	368.0	252.0
110°	792.4	793.4	794.4	790.4	776.1	740.6	676.5	582.8	466.4	344.8	244.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	800.9	800.8	796.9	784.3	758.2	712.5	640.6	545.0	436.7	329.4	240.6
115°	786.8	784.3	774.1	751.7	713.5	658.2	583.4	494.9	400.8	312.8	239.1
117.5°	741.8	738.4	723.7	698.1	658.4	602.1	534.9	458.5	379.2	303.0	240.0
120°	704.5	701.3	689.2	660.7	620.5	569.1	508.1	439.4	367.7	298.5	241.6
122.5°	669.4	665.6	652.1	626.5	590.8	543.1	486.5	424.4	358.4	295.7	244.4
125°	620.5	617.0	604.2	581.8	549.3	508.6	459.8	404.3	346.3	291.9	248.7
127.5°	580.2	576.9	565.4	546.4	517.4	480.4	436.3	386.8	335.8	290.1	253.6
130°	557.4	553.4	542.7	524.4	497.4	462.8	421.6	375.9	330.1	288.9	256.8
132.5°	535.0	532.2	522.7	504.4	479.1	446.1	407.8	365.7	324.8	288.5	259.3
135°	503.0	499.4	490.3	475.0	450.1	421.2	388.1	352.0	317.9	287.8	263.0
137.5°	469.1	466.8	459.1	443.6	422.7	397.5	369.1	339.5	311.9	286.8	265.4
140°	445.5	446.0	437.9	423.7	404.3	382.5	358.0	332.2	308.2	286.3	267.0
142.5°	423.6	424.1	416.8	404.1	387.6	368.6	347.5	325.2	305.0	285.5	268.2
145°	393.2	392.2	388.1	377.4	364.7	349.9	333.7	316.8	300.6	284.3	269.0
147.5°	368.1	367.7	363.8	356.6	347.0	336.5	323.3	310.0	296.3	282.4	269.0
150°	353.5	353.5	350.4	344.8	337.2	327.5	316.8	305.1	293.5	280.7	269.0
152.5°	341.3	341.3	339.5	334.2	328.2	320.2	310.8	300.7	290.3	278.7	267.9
155°	326.0	325.5	324.5	320.4	315.8	309.8	302.1	294.0	285.3	275.2	266.5
157.5°	312.1	312.2	311.4	308.4	304.3	299.6	293.6	286.9	279.8	272.0	264.7
160°	303.1	303.6	303.6	300.6	297.0	293.5	288.4	282.8	276.2	269.6	263.9
162.5°	295.0	295.5	295.5	292.8	290.5	287.4	282.7	277.9	272.5	267.2	262.3
165°	284.3	284.3	284.8	282.8	280.7	278.2	274.6	271.6	267.5	263.5	259.9
167.5°	274.1	274.1	274.6	273.2	272.3	270.5	268.4	266.1	262.8	259.8	257.4
170°	268.0	268.0	268.6	267.5	267.0	266.0	263.9	262.4	259.9	257.3	255.8
172.5°	262.3	262.8	263.7	262.6	262.5	261.9	260.3	259.2	257.1	255.3	254.6
175°	255.8	256.4	256.8	256.4	256.4	256.4	255.3	254.9	253.8	252.8	252.8
177.5°	252.1	252.1	252.9	252.4	252.9	252.9	252.4	252.1	251.6	251.3	251.6
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



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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°	8.1	7.9	7.1	6.2	5.7	4.9	4.7	4.2	4.1	4.3	4.4
90°	9.6	8.1	6.6	5.6	4.5	3.0	2.1	1.0	2.1	3.0	4.5
92.5°	64.6	42.7	29.4	21.8	17.6	13.6	9.4	6.3	9.4	13.6	17.6
95°	185.1	109.3	66.1	46.3	33.1	24.4	18.8	17.3	18.8	24.4	33.1
97.5°	203.1	117.7	76.4	54.9	41.9	34.4	30.1	29.5	30.1	34.4	41.9
100°	191.7	116.5	80.9	61.0	48.9	41.7	38.2	37.6	38.2	41.7	48.9
102.5°	182.0	118.1	86.1	67.9	57.0	50.3	47.1	46.2	47.1	50.3	57.0
105°	175.0	122.6	95.1	79.4	69.6	63.6	60.5	59.0	60.5	63.6	69.6
107.5°	174.4	130.9	106.8	92.2	83.1	77.1	74.2	72.6	74.2	77.1	83.1
110°	176.5	137.9	114.9	100.7	92.0	86.5	83.9	82.4	83.9	86.5	92.0



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	180.6	144.7	123.5	109.7	101.0	95.4	92.9	91.3	92.9	95.4	101.0
115°	187.2	156.1	136.8	123.1	114.4	109.3	106.3	104.2	106.3	109.3	114.4
117.5°	195.9	168.3	149.1	136.4	126.7	122.1	119.5	117.2	119.5	122.1	126.7
120°	202.4	175.9	157.7	145.0	135.3	130.2	127.7	126.2	127.7	130.2	135.3
122.5°	208.6	184.1	166.2	152.7	143.4	137.9	135.4	133.8	135.4	137.9	143.4
125°	218.2	195.8	178.0	164.3	154.6	149.0	146.0	145.0	146.0	149.0	154.6
127.5°	226.1	206.0	188.8	175.0	164.3	158.7	154.9	153.4	154.9	158.7	164.3
130°	231.4	212.0	195.3	181.6	170.9	164.8	160.2	158.7	160.2	164.8	170.9
132.5°	236.3	217.4	201.0	187.7	177.0	169.7	164.7	162.7	164.7	169.7	177.0
135°	242.6	225.3	209.6	195.8	185.1	177.5	171.9	169.9	171.9	177.5	185.1
137.5°	247.3	230.8	215.6	203.0	192.3	184.2	178.7	176.6	178.7	184.2	192.3
140°	249.8	234.4	219.7	207.0	196.8	188.7	183.6	181.1	183.6	188.7	196.8
142.5°	252.2	237.3	223.0	211.1	200.9	193.6	188.1	185.9	188.1	193.6	200.9
145°	254.9	241.1	227.8	216.2	207.5	199.9	195.3	193.8	195.3	199.9	207.5
147.5°	256.5	244.2	232.0	222.0	213.7	207.1	202.6	201.7	202.6	207.1	213.7
150°	256.8	246.2	234.4	225.3	218.2	211.6	207.5	207.0	207.5	211.6	218.2
152.5°	257.7	247.4	237.3	228.5	222.3	216.5	212.4	212.3	212.4	216.5	222.3
155°	257.9	249.8	241.1	234.0	228.4	223.3	220.3	220.3	220.3	223.3	228.4
157.5°	258.4	251.0	244.2	238.6	233.9	229.3	226.9	226.5	226.9	229.3	233.9
160°	258.4	252.3	246.2	241.1	237.6	233.4	231.4	231.4	231.4	233.4	237.6
162.5°	258.0	252.7	247.4	243.1	240.0	236.7	235.1	235.1	235.1	236.7	240.0
165°	256.8	253.2	249.2	245.7	243.6	241.1	240.0	240.6	240.0	241.1	243.6
167.5°	256.0	253.2	250.2	248.0	246.6	244.6	244.2	244.8	244.2	244.6	246.6
170°	254.9	252.8	250.2	249.2	248.2	246.6	246.2	247.2	246.2	246.6	248.2
172.5°	254.4	252.8	250.7	250.0	249.4	248.3	248.2	248.8	248.2	248.3	249.4
175°	253.2	252.3	251.3	250.7	250.7	249.8	250.2	250.7	250.2	249.8	250.7
177.5°	252.4	251.6	251.3	251.3	251.3	250.8	251.3	251.6	251.3	250.8	251.3
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

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°	4.5	4.8	5.0	5.4	5.5	6.1	6.0	5.7	5.8	6.4	6.0
90°	5.6	6.6	8.1	9.6	11.1	12.8	12.2	12.8	13.2	13.7	14.7
92.5°	21.8	29.4	42.7	64.6	86.1	78.2	59.0	42.8	34.0	30.1	27.4
95°	46.3	66.1	109.3	185.1	268.6	301.6	244.6	183.1	124.1	97.1	78.8
97.5°	54.9	76.4	117.7	203.1	342.1	467.4	500.1	456.5	365.6	300.0	239.2
100°	61.0	80.9	116.5	191.7	325.5	481.6	581.8	599.7	558.5	498.9	426.7
102.5°	67.9	86.1	118.1	182.0	301.1	455.2	585.9	647.3	646.0	611.3	565.4
105°	79.4	95.1	122.6	175.0	271.1	408.9	554.9	661.2	712.0	721.8	708.5
107.5°	92.2	106.8	130.9	174.4	252.0	368.0	500.6	621.1	703.7	748.2	766.3
110°	100.7	114.9	137.9	176.5	244.6	344.8	466.4	582.8	676.5	740.6	776.1



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	109.7	123.5	144.7	180.6	240.6	329.4	436.7	545.0	640.6	712.5	758.2
115°	123.1	136.8	156.1	187.2	239.1	312.8	400.8	494.9	583.4	658.2	713.5
117.5°	136.4	149.1	168.3	195.9	240.0	303.0	379.2	458.5	534.9	602.1	658.4
120°	145.0	157.7	175.9	202.4	241.6	298.5	367.7	439.4	508.1	569.1	620.5
122.5°	152.7	166.2	184.1	208.6	244.4	295.7	358.4	424.4	486.5	543.1	590.8
125°	164.3	178.0	195.8	218.2	248.7	291.9	346.3	404.3	459.8	508.6	549.3
127.5°	175.0	188.8	206.0	226.1	253.6	290.1	335.8	386.8	436.3	480.4	517.4
130°	181.6	195.3	212.0	231.4	256.8	288.9	330.1	375.9	421.6	462.8	497.4
132.5°	187.7	201.0	217.4	236.3	259.3	288.5	324.8	365.7	407.8	446.1	479.1
135°	195.8	209.6	225.3	242.6	263.0	287.8	317.9	352.0	388.1	421.2	450.1
137.5°	203.0	215.6	230.8	247.3	265.4	286.8	311.9	339.5	369.1	397.5	422.7
140°	207.0	219.7	234.4	249.8	267.0	286.3	308.2	332.2	358.0	382.5	404.3
142.5°	211.1	223.0	237.3	252.2	268.2	285.5	305.0	325.2	347.5	368.6	387.6
145°	216.2	227.8	241.1	254.9	269.0	284.3	300.6	316.8	333.7	349.9	364.7
147.5°	222.0	232.0	244.2	256.5	269.0	282.4	296.3	310.0	323.3	336.5	347.0
150°	225.3	234.4	246.2	256.8	269.0	280.7	293.5	305.1	316.8	327.5	337.2
152.5°	228.5	237.3	247.4	257.7	267.9	278.7	290.3	300.7	310.8	320.2	328.2
155°	234.0	241.1	249.8	257.9	266.5	275.2	285.3	294.0	302.1	309.8	315.8
157.5°	238.6	244.2	251.0	258.4	264.7	272.0	279.8	286.9	293.6	299.6	304.3
160°	241.1	246.2	252.3	258.4	263.9	269.6	276.2	282.8	288.4	293.5	297.0
162.5°	243.1	247.4	252.7	258.0	262.3	267.2	272.5	277.9	282.7	287.4	290.5
165°	245.7	249.2	253.2	256.8	259.9	263.5	267.5	271.6	274.6	278.2	280.7
167.5°	248.0	250.2	253.2	256.0	257.4	259.8	262.8	266.1	268.4	270.5	272.3
170°	249.2	250.2	252.8	254.9	255.8	257.3	259.9	262.4	263.9	266.0	267.0
172.5°	250.0	250.7	252.8	254.4	254.6	255.3	257.1	259.2	260.3	261.9	262.5
175°	250.7	251.3	252.3	253.2	252.8	252.8	253.8	254.9	255.3	256.4	256.4
177.5°	251.3	251.3	251.6	252.4	251.6	251.3	251.6	252.1	252.4	252.9	252.9
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

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°	5.8	6.0	5.9	5.6	5.9	6.0	5.8	6.0	6.4	5.8	5.7
90°	14.3	14.7	15.2	14.7	15.2	14.7	14.3	14.7	13.7	13.2	12.8
92.5°	26.5	24.9	25.4	24.5	25.4	24.9	26.5	27.4	30.1	34.0	42.8
95°	69.2	64.6	61.0	59.0	61.0	64.6	69.2	78.8	97.1	124.1	183.1
97.5°	201.6	178.7	165.0	160.6	165.0	178.7	201.6	239.2	300.0	365.6	456.5
100°	375.3	338.2	318.4	318.9	318.4	338.2	375.3	426.7	498.9	558.5	599.7
102.5°	525.5	496.1	479.5	467.8	479.5	496.1	525.5	565.4	611.3	646.0	647.3
105°	685.1	665.8	649.5	646.9	649.5	665.8	685.1	708.5	721.8	712.0	661.2
107.5°	766.8	760.3	754.7	750.1	754.7	760.3	766.8	766.3	748.2	703.7	621.1
110°	790.4	794.4	793.4	792.4	793.4	794.4	790.4	776.1	740.6	676.5	582.8



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	784.3	796.9	800.8	800.9	800.8	796.9	784.3	758.2	712.5	640.6	545.0
115°	751.7	774.1	784.3	786.8	784.3	774.1	751.7	713.5	658.2	583.4	494.9
117.5°	698.1	723.7	738.4	741.8	738.4	723.7	698.1	658.4	602.1	534.9	458.5
120°	660.7	689.2	701.3	704.5	701.3	689.2	660.7	620.5	569.1	508.1	439.4
122.5°	626.5	652.1	665.6	669.4	665.6	652.1	626.5	590.8	543.1	486.5	424.4
125°	581.8	604.2	617.0	620.5	617.0	604.2	581.8	549.3	508.6	459.8	404.3
127.5°	546.4	565.4	576.9	580.2	576.9	565.4	546.4	517.4	480.4	436.3	386.8
130°	524.4	542.7	553.4	557.4	553.4	542.7	524.4	497.4	462.8	421.6	375.9
132.5°	504.4	522.7	532.2	535.0	532.2	522.7	504.4	479.1	446.1	407.8	365.7
135°	475.0	490.3	499.4	503.0	499.4	490.3	475.0	450.1	421.2	388.1	352.0
137.5°	443.6	459.1	466.8	469.1	466.8	459.1	443.6	422.7	397.5	369.1	339.5
140°	423.7	437.9	446.0	445.5	446.0	437.9	423.7	404.3	382.5	358.0	332.2
142.5°	404.1	416.8	424.1	423.6	424.1	416.8	404.1	387.6	368.6	347.5	325.2
145°	377.4	388.1	392.2	393.2	392.2	388.1	377.4	364.7	349.9	333.7	316.8
147.5°	356.6	363.8	367.7	368.1	367.7	363.8	356.6	347.0	336.5	323.3	310.0
150°	344.8	350.4	353.5	353.5	353.5	350.4	344.8	337.2	327.5	316.8	305.1
152.5°	334.2	339.5	341.3	341.3	341.3	339.5	334.2	328.2	320.2	310.8	300.7
155°	320.4	324.5	325.5	326.0	325.5	324.5	320.4	315.8	309.8	302.1	294.0
157.5°	308.4	311.4	312.2	312.1	312.2	311.4	308.4	304.3	299.6	293.6	286.9
160°	300.6	303.6	303.6	303.1	303.6	303.6	300.6	297.0	293.5	288.4	282.8
162.5°	292.8	295.5	295.5	295.0	295.5	295.5	292.8	290.5	287.4	282.7	277.9
165°	282.8	284.8	284.3	284.3	284.3	284.8	282.8	280.7	278.2	274.6	271.6
167.5°	273.2	274.6	274.1	274.1	274.1	274.6	273.2	272.3	270.5	268.4	266.1
170°	267.5	268.6	268.0	268.0	268.0	268.6	267.5	267.0	266.0	263.9	262.4
172.5°	262.6	263.7	262.8	262.3	262.8	263.7	262.6	262.5	261.9	260.3	259.2
175°	256.4	256.8	256.4	255.8	256.4	256.8	256.4	256.4	256.4	255.3	254.9
177.5°	252.4	252.9	252.1	252.1	252.1	252.9	252.4	252.9	252.9	252.4	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

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°	6.0	6.1	5.5	5.4	5.0	4.8	4.5	4.4	4.3	4.1	4.2
90°	12.2	12.8	11.1	9.6	8.1	6.6	5.6	4.5	3.0	2.1	1.0
92.5°	59.0	78.2	86.1	64.6	42.7	29.4	21.8	17.6	13.6	9.4	6.3
95°	244.6	301.6	268.6	185.1	109.3	66.1	46.3	33.1	24.4	18.8	17.3
97.5°	500.1	467.4	342.1	203.1	117.7	76.4	54.9	41.9	34.4	30.1	29.5
100°	581.8	481.6	325.5	191.7	116.5	80.9	61.0	48.9	41.7	38.2	37.6
102.5°	585.9	455.2	301.1	182.0	118.1	86.1	67.9	57.0	50.3	47.1	46.2
105°	554.9	408.9	271.1	175.0	122.6	95.1	79.4	69.6	63.6	60.5	59.0
107.5°	500.6	368.0	252.0	174.4	130.9	106.8	92.2	83.1	77.1	74.2	72.6
110°	466.4	344.8	244.6	176.5	137.9	114.9	100.7	92.0	86.5	83.9	82.4



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	436.7	329.4	240.6	180.6	144.7	123.5	109.7	101.0	95.4	92.9	91.3
115°	400.8	312.8	239.1	187.2	156.1	136.8	123.1	114.4	109.3	106.3	104.2
117.5°	379.2	303.0	240.0	195.9	168.3	149.1	136.4	126.7	122.1	119.5	117.2
120°	367.7	298.5	241.6	202.4	175.9	157.7	145.0	135.3	130.2	127.7	126.2
122.5°	358.4	295.7	244.4	208.6	184.1	166.2	152.7	143.4	137.9	135.4	133.8
125°	346.3	291.9	248.7	218.2	195.8	178.0	164.3	154.6	149.0	146.0	145.0
127.5°	335.8	290.1	253.6	226.1	206.0	188.8	175.0	164.3	158.7	154.9	153.4
130°	330.1	288.9	256.8	231.4	212.0	195.3	181.6	170.9	164.8	160.2	158.7
132.5°	324.8	288.5	259.3	236.3	217.4	201.0	187.7	177.0	169.7	164.7	162.7
135°	317.9	287.8	263.0	242.6	225.3	209.6	195.8	185.1	177.5	171.9	169.9
137.5°	311.9	286.8	265.4	247.3	230.8	215.6	203.0	192.3	184.2	178.7	176.6
140°	308.2	286.3	267.0	249.8	234.4	219.7	207.0	196.8	188.7	183.6	181.1
142.5°	305.0	285.5	268.2	252.2	237.3	223.0	211.1	200.9	193.6	188.1	185.9
145°	300.6	284.3	269.0	254.9	241.1	227.8	216.2	207.5	199.9	195.3	193.8
147.5°	296.3	282.4	269.0	256.5	244.2	232.0	222.0	213.7	207.1	202.6	201.7
150°	293.5	280.7	269.0	256.8	246.2	234.4	225.3	218.2	211.6	207.5	207.0
152.5°	290.3	278.7	267.9	257.7	247.4	237.3	228.5	222.3	216.5	212.4	212.3
155°	285.3	275.2	266.5	257.9	249.8	241.1	234.0	228.4	223.3	220.3	220.3
157.5°	279.8	272.0	264.7	258.4	251.0	244.2	238.6	233.9	229.3	226.9	226.5
160°	276.2	269.6	263.9	258.4	252.3	246.2	241.1	237.6	233.4	231.4	231.4
162.5°	272.5	267.2	262.3	258.0	252.7	247.4	243.1	240.0	236.7	235.1	235.1
165°	267.5	263.5	259.9	256.8	253.2	249.2	245.7	243.6	241.1	240.0	240.6
167.5°	262.8	259.8	257.4	256.0	253.2	250.2	248.0	246.6	244.6	244.2	244.8
170°	259.9	257.3	255.8	254.9	252.8	250.2	249.2	248.2	246.6	246.2	247.2
172.5°	257.1	255.3	254.6	254.4	252.8	250.7	250.0	249.4	248.3	248.2	248.8
175°	253.8	252.8	252.8	253.2	252.3	251.3	250.7	250.7	249.8	250.2	250.7
177.5°	251.6	251.3	251.6	252.4	251.6	251.3	251.3	251.3	250.8	251.3	251.6
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

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°	4.7	4.9	5.7	6.2	7.1	7.9	8.1	8.0	8.2	7.9	7.8
90°	2.1	3.0	4.5	5.6	6.6	8.1	9.6	11.1	12.8	12.2	12.8
92.5°	9.4	13.6	17.6	21.8	29.4	42.7	64.6	86.1	78.2	59.0	42.8
95°	18.8	24.4	33.1	46.3	66.1	109.3	185.1	268.6	301.6	244.6	183.1
97.5°	30.1	34.4	41.9	54.9	76.4	117.7	203.1	342.1	467.4	500.1	456.5
100°	38.2	41.7	48.9	61.0	80.9	116.5	191.7	325.5	481.6	581.8	599.7
102.5°	47.1	50.3	57.0	67.9	86.1	118.1	182.0	301.1	455.2	585.9	647.3
105°	60.5	63.6	69.6	79.4	95.1	122.6	175.0	271.1	408.9	554.9	661.2
107.5°	74.2	77.1	83.1	92.2	106.8	130.9	174.4	252.0	368.0	500.6	621.1
110°	83.9	86.5	92.0	100.7	114.9	137.9	176.5	244.6	344.8	466.4	582.8



TEST NUMBER: P331876-940

CATALOG NUMBER: S123DIP-S340D585U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	92.9	95.4	101.0	109.7	123.5	144.7	180.6	240.6	329.4	436.7	545.0
115°	106.3	109.3	114.4	123.1	136.8	156.1	187.2	239.1	312.8	400.8	494.9
117.5°	119.5	122.1	126.7	136.4	149.1	168.3	195.9	240.0	303.0	379.2	458.5
120°	127.7	130.2	135.3	145.0	157.7	175.9	202.4	241.6	298.5	367.7	439.4
122.5°	135.4	137.9	143.4	152.7	166.2	184.1	208.6	244.4	295.7	358.4	424.4
125°	146.0	149.0	154.6	164.3	178.0	195.8	218.2	248.7	291.9	346.3	404.3
127.5°	154.9	158.7	164.3	175.0	188.8	206.0	226.1	253.6	290.1	335.8	386.8
130°	160.2	164.8	170.9	181.6	195.3	212.0	231.4	256.8	288.9	330.1	375.9
132.5°	164.7	169.7	177.0	187.7	201.0	217.4	236.3	259.3	288.5	324.8	365.7
135°	171.9	177.5	185.1	195.8	209.6	225.3	242.6	263.0	287.8	317.9	352.0
137.5°	178.7	184.2	192.3	203.0	215.6	230.8	247.3	265.4	286.8	311.9	339.5
140°	183.6	188.7	196.8	207.0	219.7	234.4	249.8	267.0	286.3	308.2	332.2
142.5°	188.1	193.6	200.9	211.1	223.0	237.3	252.2	268.2	285.5	305.0	325.2
145°	195.3	199.9	207.5	216.2	227.8	241.1	254.9	269.0	284.3	300.6	316.8
147.5°	202.6	207.1	213.7	222.0	232.0	244.2	256.5	269.0	282.4	296.3	310.0
150°	207.5	211.6	218.2	225.3	234.4	246.2	256.8	269.0	280.7	293.5	305.1
152.5°	212.4	216.5	222.3	228.5	237.3	247.4	257.7	267.9	278.7	290.3	300.7
155°	220.3	223.3	228.4	234.0	241.1	249.8	257.9	266.5	275.2	285.3	294.0
157.5°	226.9	229.3	233.9	238.6	244.2	251.0	258.4	264.7	272.0	279.8	286.9
160°	231.4	233.4	237.6	241.1	246.2	252.3	258.4	263.9	269.6	276.2	282.8
162.5°	235.1	236.7	240.0	243.1	247.4	252.7	258.0	262.3	267.2	272.5	277.9
165°	240.0	241.1	243.6	245.7	249.2	253.2	256.8	259.9	263.5	267.5	271.6
167.5°	244.2	244.6	246.6	248.0	250.2	253.2	256.0	257.4	259.8	262.8	266.1
170°	246.2	246.6	248.2	249.2	250.2	252.8	254.9	255.8	257.3	259.9	262.4
172.5°	248.2	248.3	249.4	250.0	250.7	252.8	254.4	254.6	255.3	257.1	259.2
175°	250.2	249.8	250.7	250.7	251.3	252.3	253.2	252.8	252.8	253.8	254.9
177.5°	251.3	250.8	251.3	251.3	251.3	251.6	252.4	251.6	251.3	251.6	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3	251.3



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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	7.8	7.8	7.8	7.7	7.9
90°	13.2	13.7	14.7	14.3	14.7	15.2	14.7
92.5°	34.0	30.1	27.4	26.5	24.9	25.4	24.5
95°	124.1	97.1	78.8	69.2	64.6	61.0	59.0
97.5°	365.6	300.0	239.2	201.6	178.7	165.0	160.6
100°	558.5	498.9	426.7	375.3	338.2	318.4	318.9
102.5°	646.0	611.3	565.4	525.5	496.1	479.5	467.8
105°	712.0	721.8	708.5	685.1	665.8	649.5	646.9
107.5°	703.7	748.2	766.3	766.8	760.3	754.7	750.1
110°	676.5	740.6	776.1	790.4	794.4	793.4	792.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	640.6	712.5	758.2	784.3	796.9	800.8	800.9
115°	583.4	658.2	713.5	751.7	774.1	784.3	786.8
117.5°	534.9	602.1	658.4	698.1	723.7	738.4	741.8
120°	508.1	569.1	620.5	660.7	689.2	701.3	704.5
122.5°	486.5	543.1	590.8	626.5	652.1	665.6	669.4
125°	459.8	508.6	549.3	581.8	604.2	617.0	620.5
127.5°	436.3	480.4	517.4	546.4	565.4	576.9	580.2
130°	421.6	462.8	497.4	524.4	542.7	553.4	557.4
132.5°	407.8	446.1	479.1	504.4	522.7	532.2	535.0
135°	388.1	421.2	450.1	475.0	490.3	499.4	503.0
137.5°	369.1	397.5	422.7	443.6	459.1	466.8	469.1
140°	358.0	382.5	404.3	423.7	437.9	446.0	445.5
142.5°	347.5	368.6	387.6	404.1	416.8	424.1	423.6
145°	333.7	349.9	364.7	377.4	388.1	392.2	393.2
147.5°	323.3	336.5	347.0	356.6	363.8	367.7	368.1
150°	316.8	327.5	337.2	344.8	350.4	353.5	353.5
152.5°	310.8	320.2	328.2	334.2	339.5	341.3	341.3
155°	302.1	309.8	315.8	320.4	324.5	325.5	326.0
157.5°	293.6	299.6	304.3	308.4	311.4	312.2	312.1
160°	288.4	293.5	297.0	300.6	303.6	303.6	303.1
162.5°	282.7	287.4	290.5	292.8	295.5	295.5	295.0
165°	274.6	278.2	280.7	282.8	284.8	284.3	284.3
167.5°	268.4	270.5	272.3	273.2	274.6	274.1	274.1
170°	263.9	266.0	267.0	267.5	268.6	268.0	268.0
172.5°	260.3	261.9	262.5	262.6	263.7	262.8	262.3
175°	255.3	256.4	256.4	256.4	256.8	256.4	255.8
177.5°	252.4	252.9	252.9	252.4	252.9	252.1	252.1
180°	251.3	251.3	251.3	251.3	251.3	251.3	251.3

(END OF REPORT)