

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: P331876-930

Luminaire Tested: **S123DIP-S340D585U930-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331876-930
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-S340D585U930-4F0-1E-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: 2913.3 lumens
Efficiency: N/A
Efficacy: 113.8 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

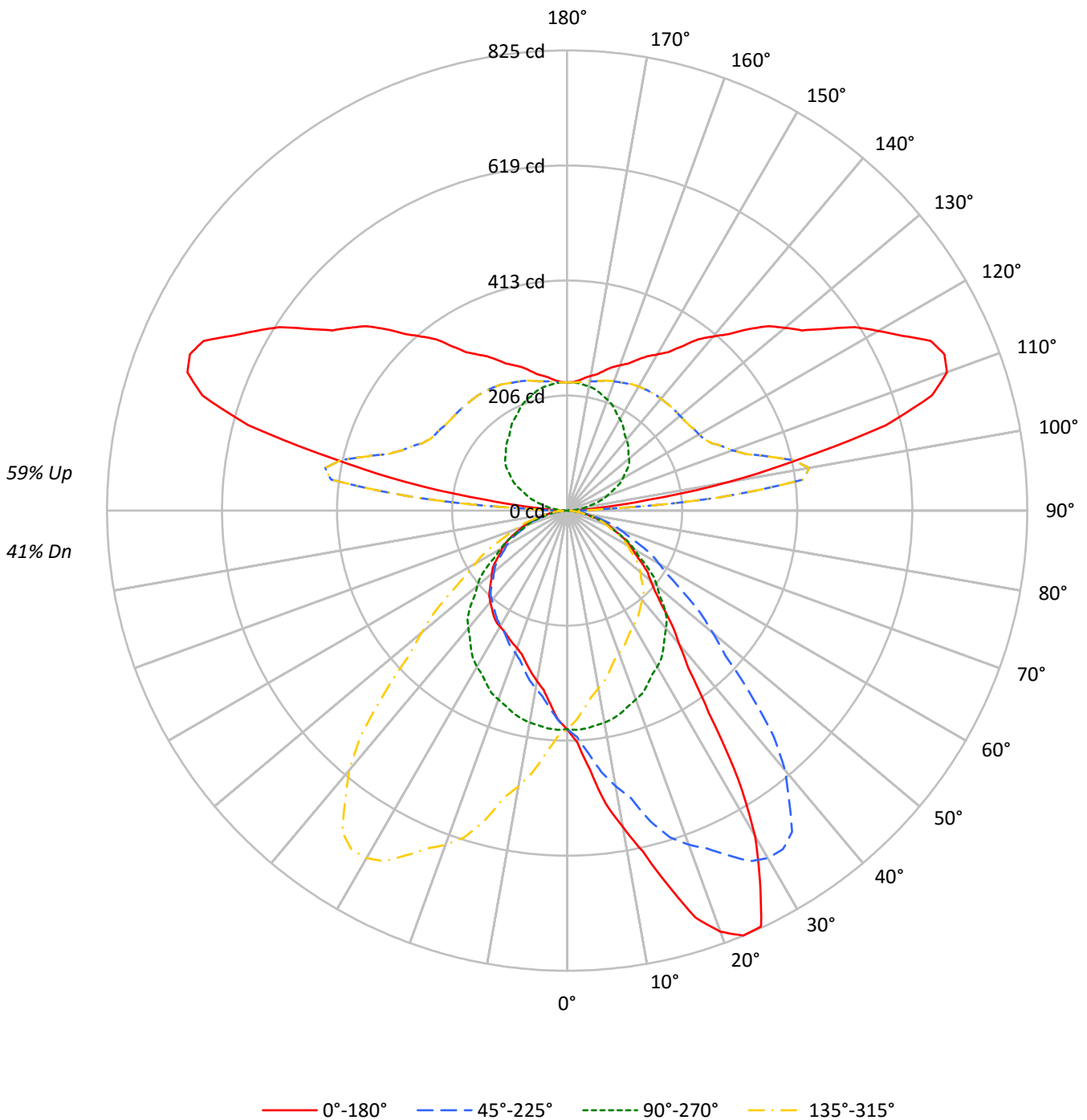
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4219	4219	4219	4219
5°	5032	4238	3756	4238
10°	6299	4217	3393	4217
15°	7725	4182	3158	4182
20°	9203	4129	3007	4129
25°	9772	4065	2973	4065
30°	8376	4018	2988	4018
35°	5825	3951	3020	3951
40°	4388	3873	3011	3873
45°	3643	3755	2973	3755
50°	3264	3518	2946	3518
55°	3051	3262	2909	3262
60°	2863	2992	2878	2992
65°	2690	2728	2786	2728
70°	2521	2426	2653	2426
75°	2258	2125	2433	2125
80°	1977	1742	2095	1742
85°	1556	1272	1408	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.6	1.3
10°-20°	123.8	4.3
20°-30°	207.8	7.1
30°-40°	235.3	8.1
40°-50°	211.0	7.2
50°-60°	170.3	5.8
60°-70°	118.7	4.1
70°-80°	62.4	2.1
80°-90°	17.0	0.6
90°-100°	127.8	4.4
100°-110°	362.0	12.4
110°-120°	356.1	12.2
120°-130°	284.0	9.7
130°-140°	224.0	7.7
140°-150°	167.1	5.7
150°-160°	116.5	4.0
160°-170°	68.4	2.3
170°-180°	22.3	0.8
0°-30°	370.3	12.7
0°-40°	605.6	20.8
0°-60°	986.9	33.9
0°-90°	1185.0	40.7
90°-120°	846.0	29.0
90°-150°	1521.1	52.2
90°-180°	1728.0	59.3
0°-180°	2913.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	392	392	392	392	392	
5°	466	392	348	392	466	48
15°	693	375	283	375	693	200
25°	823	342	250	342	823	361
35°	443	301	230	301	443	288
45°	239	247	195	247	239	189
55°	163	174	155	174	163	146
65°	106	107	109	107	106	105
75°	54	51	58	51	54	58
85°	13	10	11	10	13	15
90°	14	1	14	1	14	8
95°	54	16	54	16	54	97
105°	592	54	592	54	592	584
115°	719	95	719	95	719	699
125°	567	133	567	133	567	514
135°	460	155	460	155	460	357
145°	360	177	360	177	360	229
155°	298	201	298	201	298	139
165°	260	220	260	220	260	74
175°	234	229	234	229	234	23
180°	230	230	230	230	230	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	416.0	415.7	415.0	415.6	414.3	412.7	412.5	411.0	406.6	406.3	405.1
5°	465.7	464.2	464.0	463.8	461.1	457.5	450.7	450.1	441.0	436.5	431.0
7.5°	530.1	530.8	528.1	525.7	517.6	512.2	504.8	495.5	484.3	472.9	465.4
10°	576.3	582.5	574.8	569.4	564.5	555.2	544.4	530.8	517.4	501.7	489.7
12.5°	625.8	628.8	627.3	622.3	614.7	600.5	581.3	566.4	554.0	527.7	517.1
15°	693.2	704.8	697.4	680.4	680.7	667.2	642.2	614.7	600.0	577.0	545.7
17.5°	765.2	766.5	763.4	749.2	739.7	721.1	698.0	671.6	642.0	614.2	580.9
20°	803.4	802.3	795.7	788.2	771.9	757.5	732.2	702.8	664.8	637.4	601.1
22.5°	824.7	822.8	819.6	813.4	799.9	784.4	761.7	729.5	693.3	655.7	613.8
25°	822.8	825.2	825.7	823.9	819.2	809.9	792.1	766.4	730.3	681.8	638.2
27.5°	748.4	751.9	762.0	771.0	781.1	791.3	789.9	777.2	750.5	708.7	655.3
30°	673.9	666.3	685.1	708.8	725.0	753.5	769.4	770.4	755.4	719.5	667.4
32.5°	570.5	578.9	587.3	616.4	651.8	683.7	715.5	741.0	744.0	720.1	674.6
35°	443.3	453.8	469.0	484.1	522.1	554.8	610.7	659.3	698.0	703.1	675.2
37.5°	357.3	362.4	372.0	387.3	412.1	450.9	494.0	555.5	611.6	653.4	655.2
40°	312.3	313.8	324.6	336.1	356.3	388.2	427.1	481.5	548.7	607.1	631.4
42.5°	278.5	281.8	286.5	297.6	313.6	337.6	373.8	418.7	480.4	547.5	595.0
45°	239.3	243.1	246.0	253.4	264.8	281.0	306.1	347.2	394.1	463.4	527.4
47.5°	213.4	213.7	215.8	221.4	229.2	241.3	259.2	285.5	328.6	384.8	450.5
50°	194.9	197.9	198.7	203.0	209.1	218.0	232.8	255.3	290.6	340.0	400.4
52.5°	181.8	182.7	184.8	188.0	193.3	200.2	213.1	230.6	258.4	300.5	356.0
55°	162.6	162.6	164.7	167.1	170.2	176.4	185.0	197.9	219.0	251.7	297.7
57.5°	144.8	145.8	147.2	148.0	150.6	154.7	161.8	171.7	187.4	212.5	249.1
60°	133.0	134.7	134.4	136.0	138.3	141.5	147.6	155.6	169.6	189.7	220.5
62.5°	122.6	122.5	122.5	124.3	126.5	129.6	133.6	140.5	152.5	170.3	196.5
65°	105.6	105.3	106.6	107.7	108.4	110.7	113.7	119.8	127.8	141.1	161.4
67.5°	90.5	89.4	90.1	90.5	91.8	93.6	96.4	100.2	106.5	117.2	132.5
70°	80.1	79.2	79.0	79.4	80.6	81.9	84.0	87.6	93.4	102.0	113.2
72.5°	69.5	68.9	68.8	69.7	70.2	71.1	72.6	75.8	80.6	87.0	97.4
75°	54.3	54.3	54.3	54.5	55.1	55.8	57.0	58.7	62.3	66.9	73.9
77.5°	40.7	40.7	40.4	40.4	41.3	41.6	41.8	43.5	45.5	48.5	53.6
80°	31.9	31.0	31.3	31.9	32.3	32.4	33.0	33.4	35.1	36.9	40.4
82.5°	23.7	22.9	23.0	23.9	24.0	24.1	24.7	25.2	25.8	27.4	29.4
85°	12.6	12.6	12.7	12.7	12.9	12.7	13.3	13.5	13.5	14.4	15.6
87.5°	7.3	7.0	7.1	7.2	7.1	7.1	7.1	7.2	7.3	7.5	7.3
90°	13.5	13.9	13.5	13.0	13.5	12.6	12.1	11.7	11.2	11.7	10.2
92.5°	22.4	23.2	22.7	24.2	25.0	27.5	31.1	39.1	54.0	71.5	78.7
95°	54.0	55.8	59.0	63.3	72.1	88.8	113.5	167.4	223.6	275.7	245.6
97.5°	146.8	150.8	163.4	184.3	218.7	274.3	334.3	417.4	457.2	427.4	312.8
100°	291.6	291.1	309.2	343.2	390.1	456.2	510.6	548.3	532.0	440.3	297.6
102.5°	427.7	438.4	453.6	480.5	517.0	558.9	590.6	591.8	535.7	416.2	275.3
105°	591.5	593.9	608.7	626.4	647.8	659.9	651.0	604.5	507.4	373.9	247.9
107.5°	685.8	690.1	695.1	701.5	700.7	684.1	643.4	567.9	457.7	336.5	230.4
110°	724.5	725.5	726.4	722.7	709.6	677.1	618.5	532.9	426.4	315.3	223.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	732.3	732.1	728.6	717.1	693.2	651.4	585.7	498.3	399.3	301.2	220.0
115°	719.4	717.1	707.8	687.3	652.4	601.8	533.4	452.5	366.5	286.0	218.6
117.5°	678.2	675.1	661.7	638.3	601.9	550.5	489.1	419.2	346.7	277.0	219.4
120°	644.1	641.2	630.1	604.1	567.4	520.3	464.6	401.8	336.2	273.0	220.9
122.5°	612.0	608.5	596.2	572.8	540.1	496.5	444.8	388.0	327.7	270.4	223.5
125°	567.4	564.1	552.4	532.0	502.2	465.0	420.4	369.7	316.7	266.9	227.4
127.5°	530.5	527.5	517.0	499.5	473.0	439.2	398.9	353.7	307.0	265.2	231.9
130°	509.6	506.0	496.2	479.5	454.8	423.1	385.5	343.6	301.8	264.2	234.8
132.5°	489.2	486.6	477.9	461.2	438.1	407.9	372.8	334.4	296.9	263.7	237.1
135°	459.9	456.6	448.3	434.3	411.6	385.1	354.8	321.8	290.7	263.2	240.4
137.5°	428.9	426.8	419.7	405.6	386.5	363.5	337.5	310.4	285.2	262.2	242.6
140°	407.3	407.8	400.4	387.3	369.7	349.7	327.3	303.7	281.8	261.8	244.1
142.5°	387.3	387.8	381.1	369.5	354.4	337.0	317.7	297.3	278.8	261.1	245.2
145°	359.5	358.6	354.8	345.0	333.5	319.9	305.1	289.7	274.8	259.9	246.0
147.5°	336.6	336.2	332.6	326.0	317.2	307.7	295.6	283.5	270.9	258.2	246.0
150°	323.2	323.2	320.4	315.3	308.3	299.5	289.7	279.0	268.3	256.7	246.0
152.5°	312.0	312.0	310.4	305.6	300.1	292.8	284.1	274.9	265.4	254.9	244.9
155°	298.1	297.6	296.7	292.9	288.8	283.2	276.2	268.8	260.9	251.6	243.7
157.5°	285.4	285.4	284.7	281.9	278.3	273.9	268.5	262.3	255.8	248.7	242.1
160°	277.1	277.6	277.6	274.8	271.6	268.3	263.7	258.5	252.5	246.5	241.3
162.5°	269.7	270.2	270.2	267.7	265.6	262.8	258.4	254.1	249.2	244.3	239.9
165°	259.9	259.9	260.4	258.5	256.7	254.4	251.1	248.3	244.6	240.9	237.7
167.5°	250.6	250.6	251.1	249.8	249.0	247.3	245.4	243.3	240.3	237.5	235.4
170°	245.1	245.1	245.6	244.6	244.1	243.2	241.3	239.9	237.7	235.3	233.9
172.5°	239.9	240.3	241.1	240.1	240.0	239.5	238.0	237.0	235.1	233.4	232.8
175°	233.9	234.4	234.8	234.4	234.4	234.4	233.4	233.0	232.0	231.1	231.1
177.5°	230.5	230.5	231.2	230.8	231.2	231.2	230.8	230.5	230.1	229.8	230.1
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	404.1	403.0	401.8	399.7	397.8	395.3	394.4	393.5	390.8	388.4	386.5
5°	428.8	424.3	417.7	411.6	406.7	400.0	396.2	392.2	386.5	381.4	377.2
7.5°	454.7	445.7	435.4	424.3	413.8	403.8	395.7	388.5	380.5	373.0	367.0
10°	475.2	462.3	447.8	432.3	419.0	406.1	395.3	385.8	375.5	366.6	359.1
12.5°	498.6	479.5	459.6	440.7	424.9	407.0	393.9	381.8	370.1	359.5	351.1
15°	526.3	502.0	478.4	452.4	428.5	406.1	390.5	375.3	361.8	350.8	340.1
17.5°	551.5	524.0	492.9	461.3	432.4	405.9	384.1	366.9	350.0	336.6	326.0
20°	565.8	534.5	499.4	466.5	434.6	405.0	381.0	360.5	342.3	328.0	316.1
22.5°	578.1	541.4	505.1	469.9	434.4	402.5	375.4	354.2	334.5	320.6	307.9
25°	590.9	547.0	510.5	469.4	429.7	396.6	366.2	342.3	322.5	306.1	293.1
27.5°	601.9	546.7	503.4	459.0	422.1	389.0	356.5	330.8	309.9	292.1	278.8
30°	609.1	547.4	495.9	452.1	414.8	380.7	349.1	323.3	301.3	283.2	270.7
32.5°	613.7	546.9	489.1	442.3	403.2	373.0	341.0	314.3	291.6	273.9	261.9
35°	616.4	543.6	477.3	422.2	384.7	355.1	328.4	300.7	277.0	260.4	246.7
37.5°	611.0	536.5	463.7	402.8	361.7	332.7	310.1	286.6	263.8	245.6	233.8
40°	602.7	532.0	453.0	389.1	345.8	318.0	298.8	275.6	253.2	235.9	224.9
42.5°	586.7	522.8	441.3	374.0	329.5	301.6	283.9	264.5	243.3	227.1	216.1
45°	547.8	502.6	423.7	351.2	305.2	276.4	260.8	246.7	227.6	211.8	202.3
47.5°	493.7	472.2	398.4	327.2	279.9	252.2	235.9	224.7	210.7	197.9	188.8
50°	456.2	447.3	381.2	310.7	263.1	235.9	220.3	210.1	200.0	187.3	179.0
52.5°	412.9	418.4	361.2	293.8	245.9	219.2	204.6	196.4	187.3	176.8	169.5
55°	352.0	371.9	326.5	265.1	220.3	194.9	181.0	173.8	168.4	160.7	154.4
57.5°	294.9	320.2	289.0	235.7	195.2	173.3	160.0	152.1	148.7	144.6	139.7
60°	261.0	286.0	262.3	216.0	178.4	157.4	145.7	139.0	135.6	132.7	128.6
62.5°	230.7	256.1	236.2	195.9	161.8	142.4	132.2	125.6	123.0	121.6	118.0
65°	189.1	211.0	197.7	164.7	138.1	121.0	111.7	107.1	104.7	104.1	101.8
67.5°	153.9	170.6	160.9	136.6	115.7	100.9	93.0	89.1	87.2	87.0	85.3
70°	130.9	146.4	139.0	117.0	99.0	87.4	80.6	77.1	76.0	75.8	74.8
72.5°	112.9	123.8	117.9	99.5	85.6	75.1	70.0	66.4	65.2	65.5	64.8
75°	83.6	91.7	88.3	75.6	64.4	57.6	53.4	51.1	50.0	50.5	49.7
77.5°	60.2	65.3	62.2	53.4	46.5	41.6	38.5	37.1	36.0	36.0	35.7
80°	45.4	48.4	46.7	41.4	35.7	31.6	29.0	28.1	27.6	27.3	27.1
82.5°	32.4	34.9	32.9	29.3	25.4	22.8	21.4	20.2	19.8	19.9	19.7
85°	16.3	17.3	16.6	14.3	12.7	11.6	10.8	10.3	9.9	10.0	9.7
87.5°	7.4	7.3	6.5	5.7	5.2	4.5	4.3	3.8	3.8	3.9	4.0
90°	8.8	7.4	6.0	5.1	4.2	2.8	1.9	0.9	1.9	2.8	4.2
92.5°	59.0	39.1	26.9	20.0	16.1	12.5	8.6	5.8	8.6	12.5	16.1
95°	169.3	100.0	60.4	42.3	30.2	22.3	17.2	15.8	17.2	22.3	30.2
97.5°	185.7	107.6	69.9	50.2	38.3	31.5	27.5	27.0	27.5	31.5	38.3
100°	175.3	106.5	73.9	55.8	44.7	38.2	34.9	34.4	34.9	38.2	44.7
102.5°	166.4	107.9	78.8	62.1	52.1	46.0	43.0	42.2	43.0	46.0	52.1
105°	160.0	112.1	87.0	72.6	63.7	58.1	55.4	54.0	55.4	58.1	63.7
107.5°	159.5	119.7	97.7	84.3	76.0	70.5	67.8	66.4	67.8	70.5	76.0
110°	161.3	126.0	105.1	92.0	84.1	79.1	76.7	75.3	76.7	79.1	84.1



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	165.1	132.3	112.9	100.3	92.4	87.2	85.0	83.5	85.0	87.2	92.4
115°	171.1	142.8	125.1	112.5	104.6	100.0	97.2	95.3	97.2	100.0	104.6
117.5°	179.1	153.8	136.3	124.7	115.9	111.6	109.3	107.1	109.3	111.6	115.9
120°	185.1	160.9	144.1	132.6	123.7	119.0	116.8	115.4	116.8	119.0	123.7
122.5°	190.7	168.4	152.0	139.6	131.1	126.1	123.8	122.4	123.8	126.1	131.1
125°	199.5	179.0	162.7	150.2	141.4	136.2	133.5	132.6	133.5	136.2	141.4
127.5°	206.8	188.3	172.6	160.0	150.3	145.1	141.6	140.2	141.6	145.1	150.3
130°	211.6	193.9	178.6	166.0	156.2	150.7	146.5	145.1	146.5	150.7	156.2
132.5°	216.1	198.8	183.8	171.6	161.8	155.2	150.6	148.8	150.6	155.2	161.8
135°	221.8	206.0	191.6	179.0	169.3	162.3	157.2	155.3	157.2	162.3	169.3
137.5°	226.1	211.0	197.1	185.6	175.9	168.4	163.4	161.4	163.4	168.4	175.9
140°	228.4	214.3	200.9	189.2	179.9	172.5	167.9	165.6	167.9	172.5	179.9
142.5°	230.6	217.0	203.9	193.0	183.7	177.0	171.9	170.0	171.9	177.0	183.7
145°	233.0	220.5	208.3	197.6	189.7	182.8	178.6	177.2	178.6	182.8	189.7
147.5°	234.5	223.2	212.1	203.0	195.4	189.4	185.2	184.4	185.2	189.4	195.4
150°	234.8	225.1	214.3	206.0	199.5	193.5	189.7	189.2	189.7	193.5	199.5
152.5°	235.6	226.2	217.0	209.0	203.3	198.0	194.2	194.1	194.2	198.0	203.3
155°	235.8	228.4	220.5	213.9	208.8	204.2	201.4	201.4	201.4	204.2	208.8
157.5°	236.3	229.5	223.2	218.2	213.9	209.7	207.5	207.1	207.5	209.7	213.9
160°	236.3	230.6	225.1	220.5	217.2	213.4	211.6	211.6	211.6	213.4	217.2
162.5°	235.9	231.1	226.2	222.3	219.4	216.5	214.9	214.9	214.9	216.5	219.4
165°	234.8	231.5	227.9	224.6	222.7	220.5	219.5	220.0	219.5	220.5	222.7
167.5°	234.1	231.5	228.8	226.7	225.4	223.6	223.2	223.8	223.2	223.6	225.4
170°	233.0	231.1	228.8	227.9	226.9	225.5	225.1	226.0	225.1	225.5	226.9
172.5°	232.6	231.1	229.2	228.6	228.0	227.1	226.9	227.5	226.9	227.1	228.0
175°	231.5	230.6	229.8	229.3	229.3	228.4	228.8	229.3	228.8	228.4	229.3
177.5°	230.8	230.1	229.8	229.8	229.8	229.3	229.8	230.1	229.8	229.3	229.8
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	385.5	384.4	382.9	380.7	378.8	375.9	375.9	376.3	376.3	376.3	375.9
5°	373.8	371.0	367.5	363.5	359.4	355.1	354.4	352.9	351.8	351.0	350.1
7.5°	361.4	356.4	351.4	345.8	340.7	336.6	333.6	331.2	329.6	327.9	326.7
10°	353.1	346.8	341.0	335.1	328.6	323.4	320.2	318.0	316.3	314.7	314.0
12.5°	343.2	336.1	329.5	323.9	316.9	311.6	308.5	307.4	305.5	302.2	300.6
15°	328.8	322.1	314.4	305.8	302.4	296.0	292.3	290.6	289.4	287.0	286.3
17.5°	316.4	307.8	299.0	292.6	286.3	281.0	279.0	276.9	275.4	273.4	272.7
20°	306.6	298.8	290.8	284.0	277.3	271.6	269.9	268.4	266.8	266.0	265.1
22.5°	296.5	288.8	282.1	275.7	268.6	264.9	263.1	261.4	260.3	259.7	258.9
25°	282.4	275.6	268.2	262.5	256.8	254.3	253.2	252.3	251.4	250.5	250.3
27.5°	269.9	262.4	256.4	251.0	247.0	244.9	243.8	243.4	243.5	243.9	244.1
30°	260.4	253.6	248.7	244.1	240.3	238.4	238.1	238.1	239.0	239.1	239.5
32.5°	251.8	246.1	241.2	236.8	233.9	232.6	233.3	233.3	233.9	234.4	235.1
35°	239.1	234.2	230.4	226.6	224.1	224.7	225.1	225.4	226.4	227.6	228.3
37.5°	227.1	222.8	218.8	215.9	214.7	215.7	216.7	217.4	218.6	219.5	220.2
40°	218.4	215.2	211.4	208.7	209.1	209.7	210.4	211.4	212.4	213.0	213.7
42.5°	210.3	207.0	204.1	201.9	202.4	203.2	203.6	204.1	205.2	206.3	206.7
45°	198.1	195.4	192.8	191.4	191.8	192.2	192.6	193.1	194.1	194.9	195.1
47.5°	184.3	182.5	180.7	179.4	180.0	179.9	180.3	181.6	181.8	182.3	183.4
50°	175.5	173.8	171.7	171.3	171.3	171.3	171.5	173.0	173.0	173.8	174.6
52.5°	165.8	164.7	163.4	162.7	162.3	162.3	163.1	163.9	164.2	165.3	166.1
55°	151.4	150.3	149.1	148.5	148.1	148.5	150.0	150.4	151.4	152.0	152.5
57.5°	136.4	135.5	134.6	134.3	134.2	134.7	135.5	136.6	136.9	138.7	139.5
60°	126.5	125.1	124.4	124.4	124.0	125.7	125.4	127.3	127.7	128.8	130.1
62.5°	116.3	114.5	114.2	114.2	114.8	115.3	115.8	116.6	117.6	119.0	120.1
65°	99.9	99.0	100.3	100.1	99.7	100.9	100.9	101.8	103.0	104.3	106.4
67.5°	84.4	83.9	84.0	84.0	84.5	85.2	85.8	86.6	88.0	89.4	90.7
70°	73.9	74.4	73.5	74.3	74.8	75.0	75.4	76.6	78.0	79.0	80.6
72.5°	63.7	63.7	63.8	64.1	64.7	65.0	65.4	66.7	68.3	69.1	70.4
75°	49.0	48.8	49.4	49.4	50.3	50.7	51.1	51.7	53.2	54.3	55.3
77.5°	35.8	36.0	35.9	36.5	36.3	36.4	37.5	38.1	38.2	40.5	41.0
80°	27.0	27.3	27.6	27.7	27.9	27.6	28.9	29.4	29.4	30.7	31.7
82.5°	19.4	19.6	20.1	20.3	20.3	20.7	20.8	21.2	21.7	22.3	23.5
85°	9.7	10.3	10.4	10.3	10.4	10.0	10.6	10.8	11.0	11.0	11.0
87.5°	4.1	4.4	4.6	5.0	5.1	5.5	5.5	5.2	5.3	5.9	5.5
90°	5.1	6.0	7.4	8.8	10.2	11.7	11.2	11.7	12.1	12.6	13.5
92.5°	20.0	26.9	39.1	59.0	78.7	71.5	54.0	39.1	31.1	27.5	25.0
95°	42.3	60.4	100.0	169.3	245.6	275.7	223.6	167.4	113.5	88.8	72.1
97.5°	50.2	69.9	107.6	185.7	312.8	427.4	457.2	417.4	334.3	274.3	218.7
100°	55.8	73.9	106.5	175.3	297.6	440.3	532.0	548.3	510.6	456.2	390.1
102.5°	62.1	78.8	107.9	166.4	275.3	416.2	535.7	591.8	590.6	558.9	517.0
105°	72.6	87.0	112.1	160.0	247.9	373.9	507.4	604.5	651.0	659.9	647.8
107.5°	84.3	97.7	119.7	159.5	230.4	336.5	457.7	567.9	643.4	684.1	700.7
110°	92.0	105.1	126.0	161.3	223.6	315.3	426.4	532.9	618.5	677.1	709.6



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	100.3	112.9	132.3	165.1	220.0	301.2	399.3	498.3	585.7	651.4	693.2
115°	112.5	125.1	142.8	171.1	218.6	286.0	366.5	452.5	533.4	601.8	652.4
117.5°	124.7	136.3	153.8	179.1	219.4	277.0	346.7	419.2	489.1	550.5	601.9
120°	132.6	144.1	160.9	185.1	220.9	273.0	336.2	401.8	464.6	520.3	567.4
122.5°	139.6	152.0	168.4	190.7	223.5	270.4	327.7	388.0	444.8	496.5	540.1
125°	150.2	162.7	179.0	199.5	227.4	266.9	316.7	369.7	420.4	465.0	502.2
127.5°	160.0	172.6	188.3	206.8	231.9	265.2	307.0	353.7	398.9	439.2	473.0
130°	166.0	178.6	193.9	211.6	234.8	264.2	301.8	343.6	385.5	423.1	454.8
132.5°	171.6	183.8	198.8	216.1	237.1	263.7	296.9	334.4	372.8	407.9	438.1
135°	179.0	191.6	206.0	221.8	240.4	263.2	290.7	321.8	354.8	385.1	411.6
137.5°	185.6	197.1	211.0	226.1	242.6	262.2	285.2	310.4	337.5	363.5	386.5
140°	189.2	200.9	214.3	228.4	244.1	261.8	281.8	303.7	327.3	349.7	369.7
142.5°	193.0	203.9	217.0	230.6	245.2	261.1	278.8	297.3	317.7	337.0	354.4
145°	197.6	208.3	220.5	233.0	246.0	259.9	274.8	289.7	305.1	319.9	333.5
147.5°	203.0	212.1	223.2	234.5	246.0	258.2	270.9	283.5	295.6	307.7	317.2
150°	206.0	214.3	225.1	234.8	246.0	256.7	268.3	279.0	289.7	299.5	308.3
152.5°	209.0	217.0	226.2	235.6	244.9	254.9	265.4	274.9	284.1	292.8	300.1
155°	213.9	220.5	228.4	235.8	243.7	251.6	260.9	268.8	276.2	283.2	288.8
157.5°	218.2	223.2	229.5	236.3	242.1	248.7	255.8	262.3	268.5	273.9	278.3
160°	220.5	225.1	230.6	236.3	241.3	246.5	252.5	258.5	263.7	268.3	271.6
162.5°	222.3	226.2	231.1	235.9	239.9	244.3	249.2	254.1	258.4	262.8	265.6
165°	224.6	227.9	231.5	234.8	237.7	240.9	244.6	248.3	251.1	254.4	256.7
167.5°	226.7	228.8	231.5	234.1	235.4	237.5	240.3	243.3	245.4	247.3	249.0
170°	227.9	228.8	231.1	233.0	233.9	235.3	237.7	239.9	241.3	243.2	244.1
172.5°	228.6	229.2	231.1	232.6	232.8	233.4	235.1	237.0	238.0	239.5	240.0
175°	229.3	229.8	230.6	231.5	231.1	231.1	232.0	233.0	233.4	234.4	234.4
177.5°	229.8	229.8	230.1	230.8	230.1	229.8	230.1	230.5	230.8	231.2	231.2
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	374.9	374.7	375.8	375.0	375.8	374.7	374.9	375.9	376.3	376.3	376.3
5°	348.9	349.5	347.6	347.6	347.6	349.5	348.9	350.1	351.0	351.8	352.9
7.5°	325.8	325.0	325.1	324.0	325.1	325.0	325.8	326.7	327.9	329.6	331.2
10°	311.7	310.5	310.1	310.4	310.1	310.5	311.7	314.0	314.7	316.3	318.0
12.5°	299.9	299.8	297.3	297.3	297.3	299.8	299.9	300.6	302.2	305.5	307.4
15°	286.3	282.7	282.3	283.4	282.3	282.7	286.3	286.3	287.0	289.4	290.6
17.5°	272.5	270.5	270.7	270.1	270.7	270.5	272.5	272.7	273.4	275.4	276.9
20°	265.1	264.0	263.8	262.5	263.8	264.0	265.1	265.1	266.0	266.8	268.4
22.5°	258.4	258.1	258.2	256.7	258.2	258.1	258.4	258.9	259.7	260.3	261.4
25°	250.1	251.1	250.3	250.3	250.3	251.1	250.1	250.3	250.5	251.4	252.3
27.5°	244.5	244.5	244.1	244.1	244.1	244.5	244.5	244.1	243.9	243.5	243.4
30°	240.3	240.1	240.4	240.4	240.4	240.1	240.3	239.5	239.1	239.0	238.1
32.5°	236.0	236.3	236.4	236.5	236.4	236.3	236.0	235.1	234.4	233.9	233.3
35°	229.4	229.7	230.2	229.8	230.2	229.7	229.4	228.3	227.6	226.4	225.4
37.5°	220.5	221.4	221.3	221.5	221.3	221.4	220.5	220.2	219.5	218.6	217.4
40°	213.9	214.4	214.3	214.3	214.3	214.4	213.9	213.7	213.0	212.4	211.4
42.5°	207.0	207.4	206.9	206.7	206.9	207.4	207.0	206.7	206.3	205.2	204.1
45°	195.8	195.4	196.0	195.3	196.0	195.4	195.8	195.1	194.9	194.1	193.1
47.5°	183.3	183.7	183.8	184.4	183.8	183.7	183.3	183.4	182.3	181.8	181.6
50°	175.0	176.1	176.1	175.9	176.1	176.1	175.0	174.6	173.8	173.0	173.0
52.5°	166.7	167.2	168.0	168.0	168.0	167.2	166.7	166.1	165.3	164.2	163.9
55°	154.0	154.4	154.8	155.0	154.8	154.4	154.0	152.5	152.0	151.4	150.4
57.5°	140.9	140.7	141.6	141.9	141.6	140.7	140.9	139.5	138.7	136.9	136.6
60°	131.6	131.6	133.1	133.7	133.1	131.6	131.6	130.1	128.8	127.7	127.3
62.5°	121.7	122.4	123.8	123.1	123.8	122.4	121.7	120.1	119.0	117.6	116.6
65°	107.3	108.8	108.7	109.4	108.7	108.8	107.3	106.4	104.3	103.0	101.8
67.5°	92.2	93.2	94.6	94.7	94.6	93.2	92.2	90.7	89.4	88.0	86.6
70°	82.0	83.0	83.7	84.3	83.7	83.0	82.0	80.6	79.0	78.0	76.6
72.5°	72.2	72.6	74.5	73.7	74.5	72.6	72.2	70.4	69.1	68.3	66.7
75°	56.6	58.0	59.1	58.5	59.1	58.0	56.6	55.3	54.3	53.2	51.7
77.5°	41.8	43.2	43.7	43.2	43.7	43.2	41.8	41.0	40.5	38.2	38.1
80°	33.0	32.9	34.0	33.8	34.0	32.9	33.0	31.7	30.7	29.4	29.4
82.5°	24.2	24.1	24.5	24.7	24.5	24.1	24.2	23.5	22.3	21.7	21.2
85°	11.7	12.3	11.6	11.4	11.6	12.3	11.7	11.0	11.0	11.0	10.8
87.5°	5.3	5.5	5.4	5.1	5.4	5.5	5.3	5.5	5.9	5.3	5.2
90°	13.0	13.5	13.9	13.5	13.9	13.5	13.0	13.5	12.6	12.1	11.7
92.5°	24.2	22.7	23.2	22.4	23.2	22.7	24.2	25.0	27.5	31.1	39.1
95°	63.3	59.0	55.8	54.0	55.8	59.0	63.3	72.1	88.8	113.5	167.4
97.5°	184.3	163.4	150.8	146.8	150.8	163.4	184.3	218.7	274.3	334.3	417.4
100°	343.2	309.2	291.1	291.6	291.1	309.2	343.2	390.1	456.2	510.6	548.3
102.5°	480.5	453.6	438.4	427.7	438.4	453.6	480.5	517.0	558.9	590.6	591.8
105°	626.4	608.7	593.9	591.5	593.9	608.7	626.4	647.8	659.9	651.0	604.5
107.5°	701.1	695.1	690.1	685.8	690.1	695.1	701.1	700.7	684.1	643.4	567.9
110°	722.7	726.4	725.5	724.5	725.5	726.4	722.7	709.6	677.1	618.5	532.9



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	717.1	728.6	732.1	732.3	732.1	728.6	717.1	693.2	651.4	585.7	498.3
115°	687.3	707.8	717.1	719.4	717.1	707.8	687.3	652.4	601.8	533.4	452.5
117.5°	638.3	661.7	675.1	678.2	675.1	661.7	638.3	601.9	550.5	489.1	419.2
120°	604.1	630.1	641.2	644.1	641.2	630.1	604.1	567.4	520.3	464.6	401.8
122.5°	572.8	596.2	608.5	612.0	608.5	596.2	572.8	540.1	496.5	444.8	388.0
125°	532.0	552.4	564.1	567.4	564.1	552.4	532.0	502.2	465.0	420.4	369.7
127.5°	499.5	517.0	527.5	530.5	527.5	517.0	499.5	473.0	439.2	398.9	353.7
130°	479.5	496.2	506.0	509.6	506.0	496.2	479.5	454.8	423.1	385.5	343.6
132.5°	461.2	477.9	486.6	489.2	486.6	477.9	461.2	438.1	407.9	372.8	334.4
135°	434.3	448.3	456.6	459.9	456.6	448.3	434.3	411.6	385.1	354.8	321.8
137.5°	405.6	419.7	426.8	428.9	426.8	419.7	405.6	386.5	363.5	337.5	310.4
140°	387.3	400.4	407.8	407.3	407.8	400.4	387.3	369.7	349.7	327.3	303.7
142.5°	369.5	381.1	387.8	387.3	387.8	381.1	369.5	354.4	337.0	317.7	297.3
145°	345.0	354.8	358.6	359.5	358.6	354.8	345.0	333.5	319.9	305.1	289.7
147.5°	326.0	332.6	336.2	336.6	336.2	332.6	326.0	317.2	307.7	295.6	283.5
150°	315.3	320.4	323.2	323.2	323.2	320.4	315.3	308.3	299.5	289.7	279.0
152.5°	305.6	310.4	312.0	312.0	312.0	310.4	305.6	300.1	292.8	284.1	274.9
155°	292.9	296.7	297.6	298.1	297.6	296.7	292.9	288.8	283.2	276.2	268.8
157.5°	281.9	284.7	285.4	285.4	285.4	284.7	281.9	278.3	273.9	268.5	262.3
160°	274.8	277.6	277.6	277.1	277.6	277.6	274.8	271.6	268.3	263.7	258.5
162.5°	267.7	270.2	270.2	269.7	270.2	270.2	267.7	265.6	262.8	258.4	254.1
165°	258.5	260.4	259.9	259.9	259.9	260.4	258.5	256.7	254.4	251.1	248.3
167.5°	249.8	251.1	250.6	250.6	250.6	251.1	249.8	249.0	247.3	245.4	243.3
170°	244.6	245.6	245.1	245.1	245.1	245.6	244.6	244.1	243.2	241.3	239.9
172.5°	240.1	241.1	240.3	239.9	240.3	241.1	240.1	240.0	239.5	238.0	237.0
175°	234.4	234.8	234.4	233.9	234.4	234.8	234.4	234.4	234.4	233.4	233.0
177.5°	230.8	231.2	230.5	230.5	230.5	231.2	230.8	231.2	231.2	230.8	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	375.9	375.9	378.8	380.7	382.9	384.4	385.5	386.5	388.4	390.8	393.5
5°	354.4	355.1	359.4	363.5	367.5	371.0	373.8	377.2	381.4	386.5	392.2
7.5°	333.6	336.6	340.7	345.8	351.4	356.4	361.4	367.0	373.0	380.5	388.5
10°	320.2	323.4	328.6	335.1	341.0	346.8	353.1	359.1	366.6	375.5	385.8
12.5°	308.5	311.6	316.9	323.9	329.5	336.1	343.2	351.1	359.5	370.1	381.8
15°	292.3	296.0	302.4	305.8	314.4	322.1	328.8	340.1	350.8	361.8	375.3
17.5°	279.0	281.0	286.3	292.6	299.0	307.8	316.4	326.0	336.6	350.0	366.9
20°	269.9	271.6	277.3	284.0	290.8	298.8	306.6	316.1	328.0	342.3	360.5
22.5°	263.1	264.9	268.6	275.7	282.1	288.8	296.5	307.9	320.6	334.5	354.2
25°	253.2	254.3	256.8	262.5	268.2	275.6	282.4	293.1	306.1	322.5	342.3
27.5°	243.8	244.9	247.0	251.0	256.4	262.4	269.9	278.8	292.1	309.9	330.8
30°	238.1	238.4	240.3	244.1	248.7	253.6	260.4	270.7	283.2	301.3	323.3
32.5°	233.3	232.6	233.9	236.8	241.2	246.1	251.8	261.9	273.9	291.6	314.3
35°	225.1	224.7	224.1	226.6	230.4	234.2	239.1	246.7	260.4	277.0	300.7
37.5°	216.7	215.7	214.7	215.9	218.8	222.8	227.1	233.8	245.6	263.8	286.6
40°	210.4	209.7	209.1	208.7	211.4	215.2	218.4	224.9	235.9	253.2	275.6
42.5°	203.6	203.2	202.4	201.9	204.1	207.0	210.3	216.1	227.1	243.3	264.5
45°	192.6	192.2	191.8	191.4	192.8	195.4	198.1	202.3	211.8	227.6	246.7
47.5°	180.3	179.9	180.0	179.4	180.7	182.5	184.3	188.8	197.9	210.7	224.7
50°	171.5	171.3	171.3	171.3	171.7	173.8	175.5	179.0	187.3	200.0	210.1
52.5°	163.1	162.3	162.3	162.7	163.4	164.7	165.8	169.5	176.8	187.3	196.4
55°	150.0	148.5	148.1	148.5	149.1	150.3	151.4	154.4	160.7	168.4	173.8
57.5°	135.5	134.7	134.2	134.3	134.6	135.5	136.4	139.7	144.6	148.7	152.1
60°	125.4	125.7	124.0	124.4	124.4	125.1	126.5	128.6	132.7	135.6	139.0
62.5°	115.8	115.3	114.8	114.2	114.2	114.5	116.3	118.0	121.6	123.0	125.6
65°	100.9	100.9	99.7	100.1	100.3	99.0	99.9	101.8	104.1	104.7	107.1
67.5°	85.8	85.2	84.5	84.0	84.0	83.9	84.4	85.3	87.0	87.2	89.1
70°	75.4	75.0	74.8	74.3	73.5	74.4	73.9	74.8	75.8	76.0	77.1
72.5°	65.4	65.0	64.7	64.1	63.8	63.7	63.7	64.8	65.5	65.2	66.4
75°	51.1	50.7	50.3	49.4	49.4	48.8	49.0	49.7	50.5	50.0	51.1
77.5°	37.5	36.4	36.3	36.5	35.9	36.0	35.8	35.7	36.0	36.0	37.1
80°	28.9	27.6	27.9	27.7	27.6	27.3	27.0	27.1	27.3	27.6	28.1
82.5°	20.8	20.7	20.3	20.3	20.1	19.6	19.4	19.7	19.9	19.8	20.2
85°	10.6	10.0	10.4	10.3	10.4	10.3	9.7	9.7	10.0	9.9	10.3
87.5°	5.5	5.5	5.1	5.0	4.6	4.4	4.1	4.0	3.9	3.8	3.8
90°	11.2	11.7	10.2	8.8	7.4	6.0	5.1	4.2	2.8	1.9	0.9
92.5°	54.0	71.5	78.7	59.0	39.1	26.9	20.0	16.1	12.5	8.6	5.8
95°	223.6	275.7	245.6	169.3	100.0	60.4	42.3	30.2	22.3	17.2	15.8
97.5°	457.2	427.4	312.8	185.7	107.6	69.9	50.2	38.3	31.5	27.5	27.0
100°	532.0	440.3	297.6	175.3	106.5	73.9	55.8	44.7	38.2	34.9	34.4
102.5°	535.7	416.2	275.3	166.4	107.9	78.8	62.1	52.1	46.0	43.0	42.2
105°	507.4	373.9	247.9	160.0	112.1	87.0	72.6	63.7	58.1	55.4	54.0
107.5°	457.7	336.5	230.4	159.5	119.7	97.7	84.3	76.0	70.5	67.8	66.4
110°	426.4	315.3	223.6	161.3	126.0	105.1	92.0	84.1	79.1	76.7	75.3



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	399.3	301.2	220.0	165.1	132.3	112.9	100.3	92.4	87.2	85.0	83.5
115°	366.5	286.0	218.6	171.1	142.8	125.1	112.5	104.6	100.0	97.2	95.3
117.5°	346.7	277.0	219.4	179.1	153.8	136.3	124.7	115.9	111.6	109.3	107.1
120°	336.2	273.0	220.9	185.1	160.9	144.1	132.6	123.7	119.0	116.8	115.4
122.5°	327.7	270.4	223.5	190.7	168.4	152.0	139.6	131.1	126.1	123.8	122.4
125°	316.7	266.9	227.4	199.5	179.0	162.7	150.2	141.4	136.2	133.5	132.6
127.5°	307.0	265.2	231.9	206.8	188.3	172.6	160.0	150.3	145.1	141.6	140.2
130°	301.8	264.2	234.8	211.6	193.9	178.6	166.0	156.2	150.7	146.5	145.1
132.5°	296.9	263.7	237.1	216.1	198.8	183.8	171.6	161.8	155.2	150.6	148.8
135°	290.7	263.2	240.4	221.8	206.0	191.6	179.0	169.3	162.3	157.2	155.3
137.5°	285.2	262.2	242.6	226.1	211.0	197.1	185.6	175.9	168.4	163.4	161.4
140°	281.8	261.8	244.1	228.4	214.3	200.9	189.2	179.9	172.5	167.9	165.6
142.5°	278.8	261.1	245.2	230.6	217.0	203.9	193.0	183.7	177.0	171.9	170.0
145°	274.8	259.9	246.0	233.0	220.5	208.3	197.6	189.7	182.8	178.6	177.2
147.5°	270.9	258.2	246.0	234.5	223.2	212.1	203.0	195.4	189.4	185.2	184.4
150°	268.3	256.7	246.0	234.8	225.1	214.3	206.0	199.5	193.5	189.7	189.2
152.5°	265.4	254.9	244.9	235.6	226.2	217.0	209.0	203.3	198.0	194.2	194.1
155°	260.9	251.6	243.7	235.8	228.4	220.5	213.9	208.8	204.2	201.4	201.4
157.5°	255.8	248.7	242.1	236.3	229.5	223.2	218.2	213.9	209.7	207.5	207.1
160°	252.5	246.5	241.3	236.3	230.6	225.1	220.5	217.2	213.4	211.6	211.6
162.5°	249.2	244.3	239.9	235.9	231.1	226.2	222.3	219.4	216.5	214.9	214.9
165°	244.6	240.9	237.7	234.8	231.5	227.9	224.6	222.7	220.5	219.5	220.0
167.5°	240.3	237.5	235.4	234.1	231.5	228.8	226.7	225.4	223.6	223.2	223.8
170°	237.7	235.3	233.9	233.0	231.1	228.8	227.9	226.9	225.5	225.1	226.0
172.5°	235.1	233.4	232.8	232.6	231.1	229.2	228.6	228.0	227.1	226.9	227.5
175°	232.0	231.1	231.1	231.5	230.6	229.8	229.3	229.3	228.4	228.8	229.3
177.5°	230.1	229.8	230.1	230.8	230.1	229.8	229.8	229.8	229.3	229.8	230.1
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	394.4	395.3	397.8	399.7	401.8	403.0	404.1	405.1	406.3	406.6	411.0
5°	396.2	400.0	406.7	411.6	417.7	424.3	428.8	431.0	436.5	441.0	450.1
7.5°	395.7	403.8	413.8	424.3	435.4	445.7	454.7	465.4	472.9	484.3	495.5
10°	395.3	406.1	419.0	432.3	447.8	462.3	475.2	489.7	501.7	517.4	530.8
12.5°	393.9	407.0	424.9	440.7	459.6	479.5	498.6	517.1	527.7	554.0	566.4
15°	390.5	406.1	428.5	452.4	478.4	502.0	526.3	545.7	577.0	600.0	614.7
17.5°	384.1	405.9	432.4	461.3	492.9	524.0	551.5	580.9	614.2	642.0	671.6
20°	381.0	405.0	434.6	466.5	499.4	534.5	565.8	601.1	637.4	664.8	702.8
22.5°	375.4	402.5	434.4	469.9	505.1	541.4	578.1	613.8	655.7	693.3	729.5
25°	366.2	396.6	429.7	469.4	510.5	547.0	590.9	638.2	681.8	730.3	766.4
27.5°	356.5	389.0	422.1	459.0	503.4	546.7	601.9	655.3	708.7	750.5	777.2
30°	349.1	380.7	414.8	452.1	495.9	547.4	609.1	667.4	719.5	755.4	770.4
32.5°	341.0	373.0	403.2	442.3	489.1	546.9	613.7	674.6	720.1	744.0	741.0
35°	328.4	355.1	384.7	422.2	477.3	543.6	616.4	675.2	703.1	698.0	659.3
37.5°	310.1	332.7	361.7	402.8	463.7	536.5	611.0	655.2	653.4	611.6	555.5
40°	298.8	318.0	345.8	389.1	453.0	532.0	602.7	631.4	607.1	548.7	481.5
42.5°	283.9	301.6	329.5	374.0	441.3	522.8	586.7	595.0	547.5	480.4	418.7
45°	260.8	276.4	305.2	351.2	423.7	502.6	547.8	527.4	463.4	394.1	347.2
47.5°	235.9	252.2	279.9	327.2	398.4	472.2	493.7	450.5	384.8	328.6	285.5
50°	220.3	235.9	263.1	310.7	381.2	447.3	456.2	400.4	340.0	290.6	255.3
52.5°	204.6	219.2	245.9	293.8	361.2	418.4	412.9	356.0	300.5	258.4	230.6
55°	181.0	194.9	220.3	265.1	326.5	371.9	352.0	297.7	251.7	219.0	197.9
57.5°	160.0	173.3	195.2	235.7	289.0	320.2	294.9	249.1	212.5	187.4	171.7
60°	145.7	157.4	178.4	216.0	262.3	286.0	261.0	220.5	189.7	169.6	155.6
62.5°	132.2	142.4	161.8	195.9	236.2	256.1	230.7	196.5	170.3	152.5	140.5
65°	111.7	121.0	138.1	164.7	197.7	211.0	189.1	161.4	141.1	127.8	119.8
67.5°	93.0	100.9	115.7	136.6	160.9	170.6	153.9	132.5	117.2	106.5	100.2
70°	80.6	87.4	99.0	117.0	139.0	146.4	130.9	113.2	102.0	93.4	87.6
72.5°	70.0	75.1	85.6	99.5	117.9	123.8	112.9	97.4	87.0	80.6	75.8
75°	53.4	57.6	64.4	75.6	88.3	91.7	83.6	73.9	66.9	62.3	58.7
77.5°	38.5	41.6	46.5	53.4	62.2	65.3	60.2	53.6	48.5	45.5	43.5
80°	29.0	31.6	35.7	41.4	46.7	48.4	45.4	40.4	36.9	35.1	33.4
82.5°	21.4	22.8	25.4	29.3	32.9	34.9	32.4	29.4	27.4	25.8	25.2
85°	10.8	11.6	12.7	14.3	16.6	17.3	16.3	15.6	14.4	13.5	13.5
87.5°	4.3	4.5	5.2	5.7	6.5	7.3	7.4	7.3	7.5	7.3	7.2
90°	1.9	2.8	4.2	5.1	6.0	7.4	8.8	10.2	11.7	11.2	11.7
92.5°	8.6	12.5	16.1	20.0	26.9	39.1	59.0	78.7	71.5	54.0	39.1
95°	17.2	22.3	30.2	42.3	60.4	100.0	169.3	245.6	275.7	223.6	167.4
97.5°	27.5	31.5	38.3	50.2	69.9	107.6	185.7	312.8	427.4	457.2	417.4
100°	34.9	38.2	44.7	55.8	73.9	106.5	175.3	297.6	440.3	532.0	548.3
102.5°	43.0	46.0	52.1	62.1	78.8	107.9	166.4	275.3	416.2	535.7	591.8
105°	55.4	58.1	63.7	72.6	87.0	112.1	160.0	247.9	373.9	507.4	604.5
107.5°	67.8	70.5	76.0	84.3	97.7	119.7	159.5	230.4	336.5	457.7	567.9
110°	76.7	79.1	84.1	92.0	105.1	126.0	161.3	223.6	315.3	426.4	532.9



TEST NUMBER: P331876-930

CATALOG NUMBER: S123DIP-S340D585U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	85.0	87.2	92.4	100.3	112.9	132.3	165.1	220.0	301.2	399.3	498.3
115°	97.2	100.0	104.6	112.5	125.1	142.8	171.1	218.6	286.0	366.5	452.5
117.5°	109.3	111.6	115.9	124.7	136.3	153.8	179.1	219.4	277.0	346.7	419.2
120°	116.8	119.0	123.7	132.6	144.1	160.9	185.1	220.9	273.0	336.2	401.8
122.5°	123.8	126.1	131.1	139.6	152.0	168.4	190.7	223.5	270.4	327.7	388.0
125°	133.5	136.2	141.4	150.2	162.7	179.0	199.5	227.4	266.9	316.7	369.7
127.5°	141.6	145.1	150.3	160.0	172.6	188.3	206.8	231.9	265.2	307.0	353.7
130°	146.5	150.7	156.2	166.0	178.6	193.9	211.6	234.8	264.2	301.8	343.6
132.5°	150.6	155.2	161.8	171.6	183.8	198.8	216.1	237.1	263.7	296.9	334.4
135°	157.2	162.3	169.3	179.0	191.6	206.0	221.8	240.4	263.2	290.7	321.8
137.5°	163.4	168.4	175.9	185.6	197.1	211.0	226.1	242.6	262.2	285.2	310.4
140°	167.9	172.5	179.9	189.2	200.9	214.3	228.4	244.1	261.8	281.8	303.7
142.5°	171.9	177.0	183.7	193.0	203.9	217.0	230.6	245.2	261.1	278.8	297.3
145°	178.6	182.8	189.7	197.6	208.3	220.5	233.0	246.0	259.9	274.8	289.7
147.5°	185.2	189.4	195.4	203.0	212.1	223.2	234.5	246.0	258.2	270.9	283.5
150°	189.7	193.5	199.5	206.0	214.3	225.1	234.8	246.0	256.7	268.3	279.0
152.5°	194.2	198.0	203.3	209.0	217.0	226.2	235.6	244.9	254.9	265.4	274.9
155°	201.4	204.2	208.8	213.9	220.5	228.4	235.8	243.7	251.6	260.9	268.8
157.5°	207.5	209.7	213.9	218.2	223.2	229.5	236.3	242.1	248.7	255.8	262.3
160°	211.6	213.4	217.2	220.5	225.1	230.6	236.3	241.3	246.5	252.5	258.5
162.5°	214.9	216.5	219.4	222.3	226.2	231.1	235.9	239.9	244.3	249.2	254.1
165°	219.5	220.5	222.7	224.6	227.9	231.5	234.8	237.7	240.9	244.6	248.3
167.5°	223.2	223.6	225.4	226.7	228.8	231.5	234.1	235.4	237.5	240.3	243.3
170°	225.1	225.5	226.9	227.9	228.8	231.1	233.0	233.9	235.3	237.7	239.9
172.5°	226.9	227.1	228.0	228.6	229.2	231.1	232.6	232.8	233.4	235.1	237.0
175°	228.8	228.4	229.3	229.3	229.8	230.6	231.5	231.1	231.1	232.0	233.0
177.5°	229.8	229.3	229.8	229.8	229.8	230.1	230.8	230.1	229.8	230.1	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8	229.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	412.5	412.7	414.3	415.6	415.0	415.7	416.0
5°	450.7	457.5	461.1	463.8	464.0	464.2	465.7
7.5°	504.8	512.2	517.6	525.7	528.1	530.8	530.1
10°	544.4	555.2	564.5	569.4	574.8	582.5	576.3
12.5°	581.3	600.5	614.7	622.3	627.3	628.8	625.8
15°	642.2	667.2	680.7	680.4	697.4	704.8	693.2
17.5°	698.0	721.1	739.7	749.2	763.4	766.5	765.2
20°	732.2	757.5	771.9	788.2	795.7	802.3	803.4
22.5°	761.7	784.4	799.9	813.4	819.6	822.8	824.7
25°	792.1	809.9	819.2	823.9	825.7	825.2	822.8
27.5°	789.9	791.3	781.1	771.0	762.0	751.9	748.4
30°	769.4	753.5	725.0	708.8	685.1	666.3	673.9
32.5°	715.5	683.7	651.8	616.4	587.3	578.9	570.5
35°	610.7	554.8	522.1	484.1	469.0	453.8	443.3
37.5°	494.0	450.9	412.1	387.3	372.0	362.4	357.3
40°	427.1	388.2	356.3	336.1	324.6	313.8	312.3
42.5°	373.8	337.6	313.6	297.6	286.5	281.8	278.5
45°	306.1	281.0	264.8	253.4	246.0	243.1	239.3
47.5°	259.2	241.3	229.2	221.4	215.8	213.7	213.4
50°	232.8	218.0	209.1	203.0	198.7	197.9	194.9
52.5°	213.1	200.2	193.3	188.0	184.8	182.7	181.8
55°	185.0	176.4	170.2	167.1	164.7	162.6	162.6
57.5°	161.8	154.7	150.6	148.0	147.2	145.8	144.8
60°	147.6	141.5	138.3	136.0	134.4	134.7	133.0
62.5°	133.6	129.6	126.5	124.3	122.5	122.5	122.6
65°	113.7	110.7	108.4	107.7	106.6	105.3	105.6
67.5°	96.4	93.6	91.8	90.5	90.1	89.4	90.5
70°	84.0	81.9	80.6	79.4	79.0	79.2	80.1
72.5°	72.6	71.1	70.2	69.7	68.8	68.9	69.5
75°	57.0	55.8	55.1	54.5	54.3	54.3	54.3
77.5°	41.8	41.6	41.3	40.4	40.4	40.7	40.7
80°	33.0	32.4	32.3	31.9	31.3	31.0	31.9
82.5°	24.7	24.1	24.0	23.9	23.0	22.9	23.7
85°	13.3	12.7	12.9	12.7	12.7	12.6	12.6
87.5°	7.1	7.1	7.1	7.2	7.1	7.0	7.3
90°	12.1	12.6	13.5	13.0	13.5	13.9	13.5
92.5°	31.1	27.5	25.0	24.2	22.7	23.2	22.4
95°	113.5	88.8	72.1	63.3	59.0	55.8	54.0
97.5°	334.3	274.3	218.7	184.3	163.4	150.8	146.8
100°	510.6	456.2	390.1	343.2	309.2	291.1	291.6
102.5°	590.6	558.9	517.0	480.5	453.6	438.4	427.7
105°	651.0	659.9	647.8	626.4	608.7	593.9	591.5
107.5°	643.4	684.1	700.7	701.1	695.1	690.1	685.8
110°	618.5	677.1	709.6	722.7	726.4	725.5	724.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	585.7	651.4	693.2	717.1	728.6	732.1	732.3
115°	533.4	601.8	652.4	687.3	707.8	717.1	719.4
117.5°	489.1	550.5	601.9	638.3	661.7	675.1	678.2
120°	464.6	520.3	567.4	604.1	630.1	641.2	644.1
122.5°	444.8	496.5	540.1	572.8	596.2	608.5	612.0
125°	420.4	465.0	502.2	532.0	552.4	564.1	567.4
127.5°	398.9	439.2	473.0	499.5	517.0	527.5	530.5
130°	385.5	423.1	454.8	479.5	496.2	506.0	509.6
132.5°	372.8	407.9	438.1	461.2	477.9	486.6	489.2
135°	354.8	385.1	411.6	434.3	448.3	456.6	459.9
137.5°	337.5	363.5	386.5	405.6	419.7	426.8	428.9
140°	327.3	349.7	369.7	387.3	400.4	407.8	407.3
142.5°	317.7	337.0	354.4	369.5	381.1	387.8	387.3
145°	305.1	319.9	333.5	345.0	354.8	358.6	359.5
147.5°	295.6	307.7	317.2	326.0	332.6	336.2	336.6
150°	289.7	299.5	308.3	315.3	320.4	323.2	323.2
152.5°	284.1	292.8	300.1	305.6	310.4	312.0	312.0
155°	276.2	283.2	288.8	292.9	296.7	297.6	298.1
157.5°	268.5	273.9	278.3	281.9	284.7	285.4	285.4
160°	263.7	268.3	271.6	274.8	277.6	277.6	277.1
162.5°	258.4	262.8	265.6	267.7	270.2	270.2	269.7
165°	251.1	254.4	256.7	258.5	260.4	259.9	259.9
167.5°	245.4	247.3	249.0	249.8	251.1	250.6	250.6
170°	241.3	243.2	244.1	244.6	245.6	245.1	245.1
172.5°	238.0	239.5	240.0	240.1	241.1	240.3	239.9
175°	233.4	234.4	234.4	234.4	234.8	234.4	233.9
177.5°	230.8	231.2	231.2	230.8	231.2	230.5	230.5
180°	229.8	229.8	229.8	229.8	229.8	229.8	229.8

(END OF REPORT)