

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: P331867-940

Luminaire Tested: **S123DIP-S340D365U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331867-940
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-S340D365U940-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 365 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

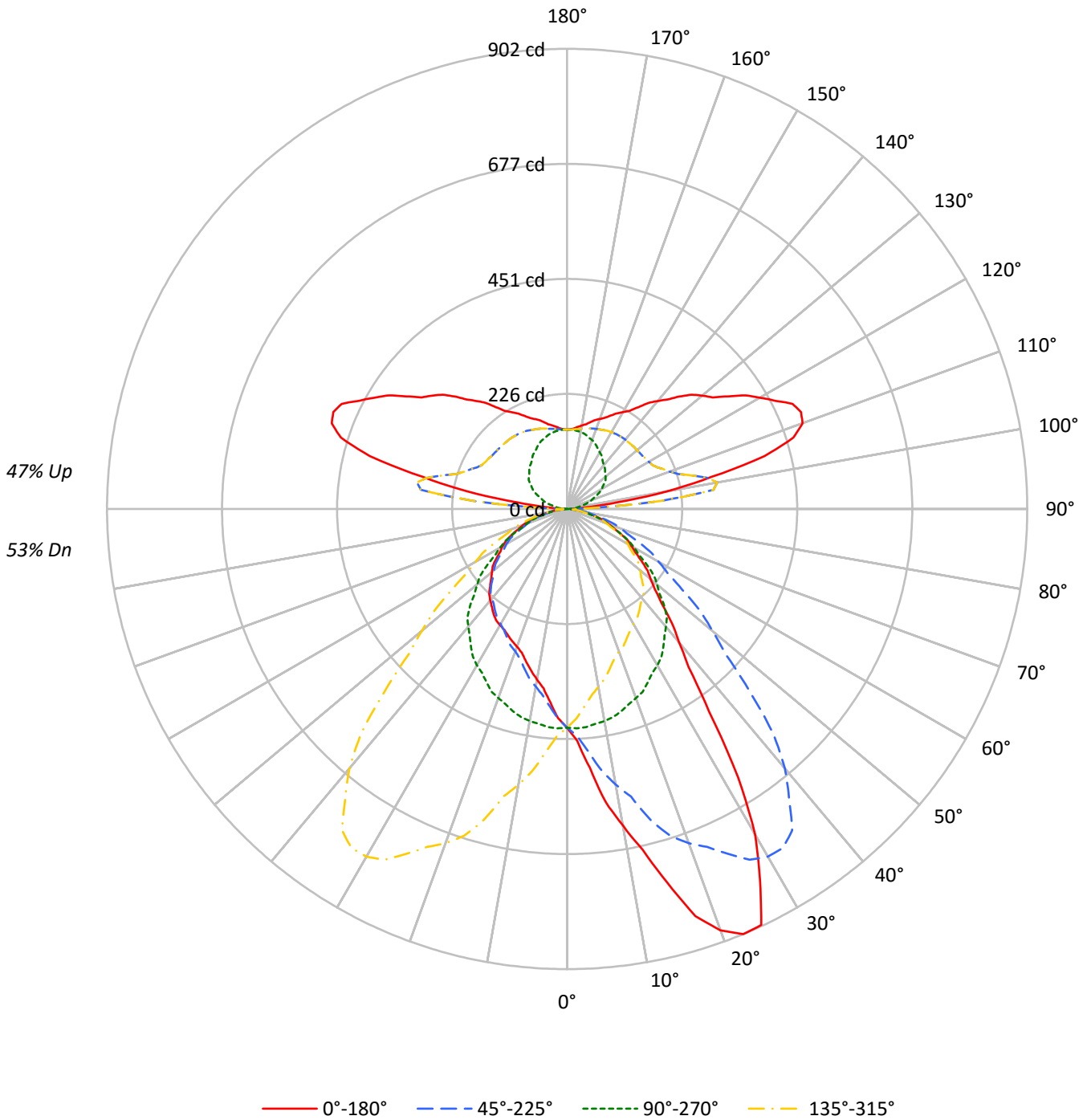
Lumens per Lamp: N/A
Luminaire Lumens: 2466.5 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20.3
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	53
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50	45
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	42	38
3	82	73	66	60	76	68	62	56	58	53	50	49	46	43	41	39	36	32
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32	28
5	69	58	50	44	64	54	47	41	47	41	37	40	35	32	33	30	28	24
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24	22
7	59	47	39	33	55	44	37	32	38	32	28	33	28	25	28	24	22	19
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	25	22	19	17
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	23	20	18	15
10	48	36	28	24	44	33	27	23	29	24	20	25	21	18	22	18	16	14

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



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.7
10°-20°	135.4	5.5
20°-30°	227.3	9.2
30°-40°	257.4	10.4
40°-50°	230.8	9.4
50°-60°	186.3	7.6
60°-70°	129.8	5.3
70°-80°	68.2	2.8
80°-90°	17.9	0.7
90°-100°	86.6	3.5
100°-110°	245.3	9.9
110°-120°	241.3	9.8
120°-130°	192.5	7.8
130°-140°	151.8	6.2
140°-150°	113.3	4.6
150°-160°	78.9	3.2
160°-170°	46.4	1.9
170°-180°	15.1	0.6
0°-30°	405.0	16.4
0°-40°	662.4	26.9
0°-60°	1079.4	43.8
0°-90°	1295.3	52.5
90°-120°	573.2	23.2
90°-150°	1030.7	41.8
90°-180°	1171.0	47.5
0°-180°	2466.5	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	16
90°	9	1	9	1	9	6
95°	37	11	37	11	37	66
105°	401	37	401	37	401	395
115°	488	65	488	65	488	474
125°	384	90	384	90	384	348
135°	312	105	312	105	312	242
145°	244	120	244	120	244	155
155°	202	136	202	136	202	94
165°	176	149	176	149	176	50
175°	158	155	158	155	158	15
180°	156	156	156	156	156	



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

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°	6.8	6.5	6.7	6.8	6.7	6.7	6.8	6.9	7.0	7.2	7.2
90°	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8	7.6	7.8	7.0
92.5°	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6	36.6	48.4	53.3
95°	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4	151.6	186.9	166.4
97.5°	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8	309.8	289.6	212.0
100°	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5	360.5	298.5	201.7
102.5°	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0	363.0	282.0	186.5
105°	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7	343.8	253.3	168.0
107.5°	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8	310.1	228.0	156.1
110°	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1	289.0	213.7	151.6



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7	270.5	204.0	149.0
115°	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6	248.3	193.8	148.1
117.5°	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1	234.9	187.7	148.6
120°	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2	227.8	184.9	149.7
122.5°	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0	222.0	183.2	151.4
125°	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5	214.6	180.8	154.1
127.5°	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7	208.0	179.8	157.1
130°	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8	204.5	179.0	159.2
132.5°	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6	201.3	178.7	160.7
135°	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0	197.0	178.3	162.9
137.5°	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3	193.2	177.6	164.4
140°	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8	190.9	177.5	165.4
142.5°	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5	189.0	176.9	166.2
145°	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4	186.2	176.1	166.7
147.5°	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1	183.6	175.0	166.7
150°	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0	181.8	174.0	166.7
152.5°	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3	179.8	172.7	165.9
155°	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2	176.7	170.5	165.1
157.5°	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7	173.3	168.5	164.1
160°	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2	171.1	167.0	163.5
162.5°	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2	168.8	165.5	162.6
165°	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3	165.8	163.3	161.0
167.5°	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9	162.8	161.0	159.5
170°	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6	161.0	159.4	158.5
172.5°	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6	159.3	158.2	157.7
175°	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8	157.2	156.6	156.6
177.5°	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1	156.0	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

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°	7.3	7.3	6.6	5.9	5.4	4.7	4.5	4.1	3.9	4.0	4.0
90°	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6	1.2	1.9	2.9
92.5°	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9	5.8	8.5	10.9
95°	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7	11.7	15.2	20.5
97.5°	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3	18.5	21.3	25.9
100°	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4	23.6	25.9	30.2
102.5°	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6	29.2	31.1	35.3
105°	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6	37.5	39.4	43.2
107.5°	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0	45.9	47.8	51.5
110°	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0	52.0	53.6	57.1



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6	57.5	59.1	62.6
115°	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6	65.9	67.8	70.9
117.5°	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6	74.0	75.6	78.6
120°	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1	79.1	80.7	83.8
122.5°	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9	83.9	85.4	88.9
125°	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8	90.4	92.3	95.8
127.5°	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1	95.9	98.4	101.8
130°	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4	99.2	102.1	105.8
132.5°	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9	102.0	105.1	109.7
135°	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2	106.5	109.9	114.7
137.5°	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4	110.8	114.1	119.1
140°	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2	113.8	116.9	122.0
142.5°	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2	116.5	119.9	124.5
145°	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0	121.0	123.9	128.6
147.5°	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0	125.6	128.3	132.4
150°	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2	128.6	131.1	135.2
152.5°	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5	131.6	134.1	137.7
155°	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4	136.4	138.3	141.5
157.5°	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4	140.6	142.1	144.9
160°	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4	143.4	144.6	147.1
162.5°	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6	145.6	146.7	148.6
165°	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0	148.7	149.4	151.0
167.5°	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6	151.2	151.6	152.8
170°	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1	152.5	152.8	153.7
172.5°	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2	153.7	153.8	154.5
175°	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3	155.1	154.7	155.3
177.5°	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0	155.7	155.4	155.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-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°	4.0	4.3	4.4	4.7	4.7	5.1	5.0	4.7	4.8	5.4	4.8
90°	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8	8.2	8.5	9.1
92.5°	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6	21.0	18.5	16.9
95°	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4	76.9	60.2	48.9
97.5°	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8	226.5	185.8	148.2
100°	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5	346.0	309.2	264.4
102.5°	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0	400.2	378.7	350.4
105°	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7	441.1	447.1	439.0
107.5°	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8	436.0	463.6	474.8
110°	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1	419.1	458.8	480.9



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7	396.9	441.4	469.8
115°	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6	361.4	407.8	442.1
117.5°	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1	331.4	373.0	407.9
120°	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2	314.8	352.6	384.4
122.5°	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0	301.4	336.4	366.0
125°	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5	284.9	315.1	340.4
127.5°	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7	270.3	297.6	320.6
130°	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8	261.3	286.8	308.2
132.5°	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6	252.6	276.4	296.9
135°	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0	240.4	260.9	278.8
137.5°	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3	228.6	246.3	261.9
140°	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8	221.9	236.9	250.5
142.5°	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5	215.3	228.4	240.1
145°	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4	206.7	216.8	226.0
147.5°	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1	200.4	208.5	215.0
150°	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0	196.4	203.0	208.9
152.5°	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3	192.5	198.4	203.4
155°	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2	187.2	191.9	195.6
157.5°	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7	181.9	185.6	188.6
160°	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2	178.7	181.8	184.0
162.5°	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2	175.1	178.1	180.0
165°	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3	170.1	172.4	174.0
167.5°	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9	166.3	167.6	168.7
170°	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6	163.5	164.8	165.4
172.5°	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6	161.3	162.3	162.6
175°	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8	158.2	158.8	158.8
177.5°	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1	156.4	156.7	156.7
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-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°	4.7	4.8	4.7	4.5	4.7	4.8	4.7	4.8	5.4	4.8	4.7
90°	8.8	9.1	9.5	9.1	9.5	9.1	8.8	9.1	8.5	8.2	7.8
92.5°	16.4	15.4	15.8	15.2	15.8	15.4	16.4	16.9	18.5	21.0	26.6
95°	42.9	40.0	37.8	36.6	37.8	40.0	42.9	48.9	60.2	76.9	113.4
97.5°	124.9	110.8	102.2	99.5	102.2	110.8	124.9	148.2	185.8	226.5	282.8
100°	232.6	209.6	197.2	197.6	197.2	209.6	232.6	264.4	309.2	346.0	371.5
102.5°	325.6	307.4	297.1	289.8	297.1	307.4	325.6	350.4	378.7	400.2	401.0
105°	424.5	412.5	402.4	400.8	402.4	412.5	424.5	439.0	447.1	441.1	409.7
107.5°	475.1	471.0	467.6	464.8	467.6	471.0	475.1	474.8	463.6	436.0	384.8
110°	489.7	492.2	491.6	491.0	491.6	492.2	489.7	480.9	458.8	419.1	361.1



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	485.9	493.7	496.1	496.2	496.1	493.7	485.9	469.8	441.4	396.9	337.7
115°	465.7	479.6	485.9	487.5	485.9	479.6	465.7	442.1	407.8	361.4	306.6
117.5°	432.6	448.4	457.4	459.6	457.4	448.4	432.6	407.9	373.0	331.4	284.1
120°	409.3	427.0	434.5	436.4	434.5	427.0	409.3	384.4	352.6	314.8	272.2
122.5°	388.2	404.0	412.3	414.7	412.3	404.0	388.2	366.0	336.4	301.4	263.0
125°	360.5	374.3	382.3	384.4	382.3	374.3	360.5	340.4	315.1	284.9	250.5
127.5°	338.5	350.4	357.5	359.4	357.5	350.4	338.5	320.6	297.6	270.3	239.7
130°	324.9	336.3	342.9	345.4	342.9	336.3	324.9	308.2	286.8	261.3	232.8
132.5°	312.5	323.9	329.8	331.5	329.8	323.9	312.5	296.9	276.4	252.6	226.6
135°	294.4	303.8	309.4	311.7	309.4	303.8	294.4	278.8	260.9	240.4	218.0
137.5°	274.8	284.5	289.2	290.7	289.2	284.5	274.8	261.9	246.3	228.6	210.3
140°	262.5	271.3	276.3	276.1	276.3	271.3	262.5	250.5	236.9	221.9	205.8
142.5°	250.4	258.2	262.7	262.4	262.7	258.2	250.4	240.1	228.4	215.3	201.5
145°	233.8	240.4	243.0	243.6	243.0	240.4	233.8	226.0	216.8	206.7	196.4
147.5°	221.0	225.4	227.8	228.1	227.8	225.4	221.0	215.0	208.5	200.4	192.1
150°	213.7	217.1	219.0	219.0	219.0	217.1	213.7	208.9	203.0	196.4	189.0
152.5°	207.1	210.3	211.4	211.4	211.4	210.3	207.1	203.4	198.4	192.5	186.3
155°	198.5	201.1	201.7	202.0	201.7	201.1	198.5	195.6	191.9	187.2	182.2
157.5°	191.0	192.9	193.4	193.3	193.4	192.9	191.0	188.6	185.6	181.9	177.7
160°	186.2	188.2	188.2	187.8	188.2	188.2	186.2	184.0	181.8	178.7	175.2
162.5°	181.5	183.1	183.1	182.8	183.1	183.1	181.5	180.0	178.1	175.1	172.2
165°	175.2	176.5	176.1	176.1	176.1	176.5	175.2	174.0	172.4	170.1	168.3
167.5°	169.2	170.1	169.9	169.9	169.9	170.1	169.2	168.7	167.6	166.3	164.9
170°	165.8	166.4	166.0	166.0	166.0	166.4	165.8	165.4	164.8	163.5	162.6
172.5°	162.7	163.4	162.8	162.6	162.8	163.4	162.7	162.6	162.3	161.3	160.6
175°	158.8	159.2	158.8	158.5	158.8	159.2	158.8	158.8	158.8	158.2	157.8
177.5°	156.4	156.7	156.1	156.1	156.1	156.7	156.4	156.7	156.7	156.4	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-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°	5.0	5.1	4.7	4.7	4.4	4.3	4.0	4.0	4.0	3.9	4.1
90°	7.6	7.8	7.0	6.0	5.1	4.1	3.5	2.9	1.9	1.2	0.6
92.5°	36.6	48.4	53.3	40.0	26.5	18.2	13.6	10.9	8.5	5.8	3.9
95°	151.6	186.9	166.4	114.7	67.8	40.9	28.7	20.5	15.2	11.7	10.7
97.5°	309.8	289.6	212.0	125.8	72.9	47.3	34.1	25.9	21.3	18.5	18.3
100°	360.5	298.5	201.7	118.8	72.1	50.1	37.8	30.2	25.9	23.6	23.4
102.5°	363.0	282.0	186.5	112.7	73.2	53.4	42.1	35.3	31.1	29.2	28.6
105°	343.8	253.3	168.0	108.4	76.0	58.9	49.1	43.2	39.4	37.5	36.6
107.5°	310.1	228.0	156.1	108.1	81.1	66.2	57.1	51.5	47.8	45.9	45.0
110°	289.0	213.7	151.6	109.3	85.4	71.2	62.4	57.1	53.6	52.0	51.0



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	270.5	204.0	149.0	111.9	89.7	76.5	67.9	62.6	59.1	57.5	56.6
115°	248.3	193.8	148.1	115.9	96.8	84.8	76.2	70.9	67.8	65.9	64.6
117.5°	234.9	187.7	148.6	121.4	104.2	92.4	84.5	78.6	75.6	74.0	72.6
120°	227.8	184.9	149.7	125.4	109.1	97.6	89.8	83.8	80.7	79.1	78.1
122.5°	222.0	183.2	151.4	129.2	114.0	103.0	94.6	88.9	85.4	83.9	82.9
125°	214.6	180.8	154.1	135.2	121.4	110.3	101.7	95.8	92.3	90.4	89.8
127.5°	208.0	179.8	157.1	140.1	127.6	117.0	108.4	101.8	98.4	95.9	95.1
130°	204.5	179.0	159.2	143.4	131.4	121.0	112.5	105.8	102.1	99.2	98.4
132.5°	201.3	178.7	160.7	146.4	134.6	124.6	116.3	109.7	105.1	102.0	100.9
135°	197.0	178.3	162.9	150.3	139.6	129.8	121.4	114.7	109.9	106.5	105.2
137.5°	193.2	177.6	164.4	153.2	143.0	133.6	125.7	119.1	114.1	110.8	109.4
140°	190.9	177.5	165.4	154.7	145.3	136.2	128.2	122.0	116.9	113.8	112.2
142.5°	189.0	176.9	166.2	156.2	147.0	138.1	130.8	124.5	119.9	116.5	115.2
145°	186.2	176.1	166.7	157.8	149.4	141.2	133.9	128.6	123.9	121.0	120.0
147.5°	183.6	175.0	166.7	158.9	151.2	143.7	137.6	132.4	128.3	125.6	125.0
150°	181.8	174.0	166.7	159.2	152.5	145.3	139.6	135.2	131.1	128.6	128.2
152.5°	179.8	172.7	165.9	159.6	153.3	147.0	141.6	137.7	134.1	131.6	131.5
155°	176.7	170.5	165.1	159.8	154.7	149.4	145.0	141.5	138.3	136.4	136.4
157.5°	173.3	168.5	164.1	160.1	155.5	151.2	147.8	144.9	142.1	140.6	140.4
160°	171.1	167.0	163.5	160.1	156.3	152.5	149.4	147.1	144.6	143.4	143.4
162.5°	168.8	165.5	162.6	159.8	156.6	153.3	150.6	148.6	146.7	145.6	145.6
165°	165.8	163.3	161.0	159.2	156.9	154.4	152.2	151.0	149.4	148.7	149.0
167.5°	162.8	161.0	159.5	158.6	156.9	155.1	153.6	152.8	151.6	151.2	151.6
170°	161.0	159.4	158.5	157.8	156.6	155.1	154.4	153.7	152.8	152.5	153.1
172.5°	159.3	158.2	157.7	157.7	156.6	155.2	154.9	154.5	153.8	153.7	154.2
175°	157.2	156.6	156.6	156.9	156.3	155.7	155.3	155.3	154.7	155.1	155.3
177.5°	156.0	155.7	156.0	156.4	156.0	155.7	155.7	155.7	155.4	155.7	156.0
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-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°	4.5	4.7	5.4	5.9	6.6	7.3	7.3	7.2	7.2	7.0	6.9
90°	1.2	1.9	2.9	3.5	4.1	5.1	6.0	7.0	7.8	7.6	7.8
92.5°	5.8	8.5	10.9	13.6	18.2	26.5	40.0	53.3	48.4	36.6	26.6
95°	11.7	15.2	20.5	28.7	40.9	67.8	114.7	166.4	186.9	151.6	113.4
97.5°	18.5	21.3	25.9	34.1	47.3	72.9	125.8	212.0	289.6	309.8	282.8
100°	23.6	25.9	30.2	37.8	50.1	72.1	118.8	201.7	298.5	360.5	371.5
102.5°	29.2	31.1	35.3	42.1	53.4	73.2	112.7	186.5	282.0	363.0	401.0
105°	37.5	39.4	43.2	49.1	58.9	76.0	108.4	168.0	253.3	343.8	409.7
107.5°	45.9	47.8	51.5	57.1	66.2	81.1	108.1	156.1	228.0	310.1	384.8
110°	52.0	53.6	57.1	62.4	71.2	85.4	109.3	151.6	213.7	289.0	361.1



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	57.5	59.1	62.6	67.9	76.5	89.7	111.9	149.0	204.0	270.5	337.7
115°	65.9	67.8	70.9	76.2	84.8	96.8	115.9	148.1	193.8	248.3	306.6
117.5°	74.0	75.6	78.6	84.5	92.4	104.2	121.4	148.6	187.7	234.9	284.1
120°	79.1	80.7	83.8	89.8	97.6	109.1	125.4	149.7	184.9	227.8	272.2
122.5°	83.9	85.4	88.9	94.6	103.0	114.0	129.2	151.4	183.2	222.0	263.0
125°	90.4	92.3	95.8	101.7	110.3	121.4	135.2	154.1	180.8	214.6	250.5
127.5°	95.9	98.4	101.8	108.4	117.0	127.6	140.1	157.1	179.8	208.0	239.7
130°	99.2	102.1	105.8	112.5	121.0	131.4	143.4	159.2	179.0	204.5	232.8
132.5°	102.0	105.1	109.7	116.3	124.6	134.6	146.4	160.7	178.7	201.3	226.6
135°	106.5	109.9	114.7	121.4	129.8	139.6	150.3	162.9	178.3	197.0	218.0
137.5°	110.8	114.1	119.1	125.7	133.6	143.0	153.2	164.4	177.6	193.2	210.3
140°	113.8	116.9	122.0	128.2	136.2	145.3	154.7	165.4	177.5	190.9	205.8
142.5°	116.5	119.9	124.5	130.8	138.1	147.0	156.2	166.2	176.9	189.0	201.5
145°	121.0	123.9	128.6	133.9	141.2	149.4	157.8	166.7	176.1	186.2	196.4
147.5°	125.6	128.3	132.4	137.6	143.7	151.2	158.9	166.7	175.0	183.6	192.1
150°	128.6	131.1	135.2	139.6	145.3	152.5	159.2	166.7	174.0	181.8	189.0
152.5°	131.6	134.1	137.7	141.6	147.0	153.3	159.6	165.9	172.7	179.8	186.3
155°	136.4	138.3	141.5	145.0	149.4	154.7	159.8	165.1	170.5	176.7	182.2
157.5°	140.6	142.1	144.9	147.8	151.2	155.5	160.1	164.1	168.5	173.3	177.7
160°	143.4	144.6	147.1	149.4	152.5	156.3	160.1	163.5	167.0	171.1	175.2
162.5°	145.6	146.7	148.6	150.6	153.3	156.6	159.8	162.6	165.5	168.8	172.2
165°	148.7	149.4	151.0	152.2	154.4	156.9	159.2	161.0	163.3	165.8	168.3
167.5°	151.2	151.6	152.8	153.6	155.1	156.9	158.6	159.5	161.0	162.8	164.9
170°	152.5	152.8	153.7	154.4	155.1	156.6	157.8	158.5	159.4	161.0	162.6
172.5°	153.7	153.8	154.5	154.9	155.2	156.6	157.7	157.7	158.2	159.3	160.6
175°	155.1	154.7	155.3	155.3	155.7	156.3	156.9	156.6	156.6	157.2	157.8
177.5°	155.7	155.4	155.7	155.7	155.7	156.0	156.4	156.0	155.7	156.0	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7	155.7



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

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°	6.8	6.7	6.7	6.8	6.7	6.5	6.8
90°	8.2	8.5	9.1	8.8	9.1	9.5	9.1
92.5°	21.0	18.5	16.9	16.4	15.4	15.8	15.2
95°	76.9	60.2	48.9	42.9	40.0	37.8	36.6
97.5°	226.5	185.8	148.2	124.9	110.8	102.2	99.5
100°	346.0	309.2	264.4	232.6	209.6	197.2	197.6
102.5°	400.2	378.7	350.4	325.6	307.4	297.1	289.8
105°	441.1	447.1	439.0	424.5	412.5	402.4	400.8
107.5°	436.0	463.6	474.8	475.1	471.0	467.6	464.8
110°	419.1	458.8	480.9	489.7	492.2	491.6	491.0



TEST NUMBER: P331867-940

CATALOG NUMBER: S123DIP-S340D365U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	396.9	441.4	469.8	485.9	493.7	496.1	496.2
115°	361.4	407.8	442.1	465.7	479.6	485.9	487.5
117.5°	331.4	373.0	407.9	432.6	448.4	457.4	459.6
120°	314.8	352.6	384.4	409.3	427.0	434.5	436.4
122.5°	301.4	336.4	366.0	388.2	404.0	412.3	414.7
125°	284.9	315.1	340.4	360.5	374.3	382.3	384.4
127.5°	270.3	297.6	320.6	338.5	350.4	357.5	359.4
130°	261.3	286.8	308.2	324.9	336.3	342.9	345.4
132.5°	252.6	276.4	296.9	312.5	323.9	329.8	331.5
135°	240.4	260.9	278.8	294.4	303.8	309.4	311.7
137.5°	228.6	246.3	261.9	274.8	284.5	289.2	290.7
140°	221.9	236.9	250.5	262.5	271.3	276.3	276.1
142.5°	215.3	228.4	240.1	250.4	258.2	262.7	262.4
145°	206.7	216.8	226.0	233.8	240.4	243.0	243.6
147.5°	200.4	208.5	215.0	221.0	225.4	227.8	228.1
150°	196.4	203.0	208.9	213.7	217.1	219.0	219.0
152.5°	192.5	198.4	203.4	207.1	210.3	211.4	211.4
155°	187.2	191.9	195.6	198.5	201.1	201.7	202.0
157.5°	181.9	185.6	188.6	191.0	192.9	193.4	193.3
160°	178.7	181.8	184.0	186.2	188.2	188.2	187.8
162.5°	175.1	178.1	180.0	181.5	183.1	183.1	182.8
165°	170.1	172.4	174.0	175.2	176.5	176.1	176.1
167.5°	166.3	167.6	168.7	169.2	170.1	169.9	169.9
170°	163.5	164.8	165.4	165.8	166.4	166.0	166.0
172.5°	161.3	162.3	162.6	162.7	163.4	162.8	162.6
175°	158.2	158.8	158.8	158.8	159.2	158.8	158.5
177.5°	156.4	156.7	156.7	156.4	156.7	156.1	156.1
180°	155.7	155.7	155.7	155.7	155.7	155.7	155.7

(END OF REPORT)