

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: P331867-830

Luminaire Tested: **S123DIP-S340D365U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331867-830
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-S340D365U830-4F0-1E-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: 2607.1 lumens
Efficiency: N/A
Efficacy: 128.4 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

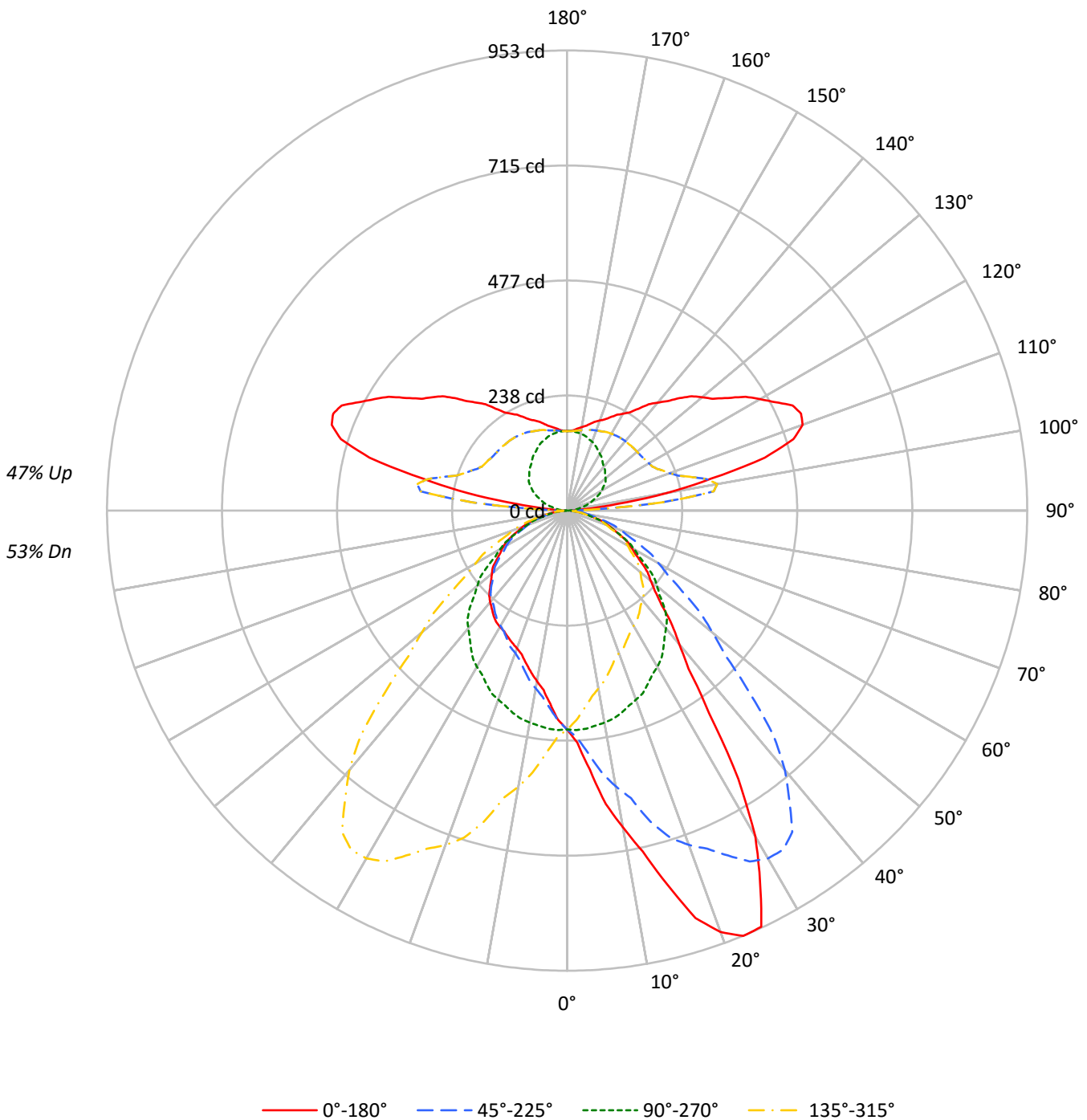
Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.7
10°-20°	143.2	5.5
20°-30°	240.3	9.2
30°-40°	272.0	10.4
40°-50°	244.0	9.4
50°-60°	196.9	7.6
60°-70°	137.2	5.3
70°-80°	72.1	2.8
80°-90°	18.9	0.7
90°-100°	91.6	3.5
100°-110°	259.3	9.9
110°-120°	255.1	9.8
120°-130°	203.5	7.8
130°-140°	160.4	6.2
140°-150°	119.7	4.6
150°-160°	83.4	3.2
160°-170°	49.0	1.9
170°-180°	16.0	0.6
0°-30°	428.1	16.4
0°-40°	700.1	26.9
0°-60°	1140.9	43.8
0°-90°	1369.2	52.5
90°-120°	605.9	23.2
90°-150°	1089.5	41.8
90°-180°	1238.0	47.5
0°-180°	2607.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	538	454	402	454	538	56
15°	801	434	328	434	801	231
25°	951	396	289	396	951	417
35°	512	348	266	348	512	333
45°	277	285	226	285	277	219
55°	188	201	179	201	188	169
65°	122	124	126	124	122	122
75°	63	59	68	59	63	67
85°	14	12	13	12	14	17
90°	10	1	10	1	10	6
95°	39	11	39	11	39	70
105°	424	39	424	39	424	418
115°	515	68	515	68	515	501
125°	406	95	406	95	406	368
135°	329	111	329	111	329	256
145°	258	127	258	127	258	164
155°	214	144	214	144	214	100
165°	186	158	186	158	186	53
175°	168	164	168	164	168	16
180°	165	165	165	165	165	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	481.0	480.6	479.8	480.4	479.0	477.1	476.9	475.1	470.0	469.8	468.3
5°	538.4	536.7	536.4	536.2	533.1	529.0	521.0	520.4	509.8	504.6	498.2
7.5°	612.8	613.7	610.5	607.8	598.3	592.1	583.6	572.8	559.9	546.7	538.0
10°	666.2	673.4	664.5	658.3	652.6	641.9	629.3	613.7	598.1	579.9	566.1
12.5°	723.5	727.0	725.2	719.4	710.6	694.2	672.0	654.8	640.5	610.1	597.9
15°	801.4	814.8	806.3	786.6	786.9	771.4	742.4	710.6	693.6	667.0	630.8
17.5°	884.6	886.2	882.6	866.1	855.2	833.7	806.9	776.5	742.2	710.0	671.6
20°	928.8	927.5	919.8	911.3	892.4	875.7	846.5	812.5	768.5	736.9	694.9
22.5°	953.4	951.2	947.5	940.4	924.7	906.8	880.5	843.4	801.5	758.0	709.5
25°	951.2	954.0	954.5	952.5	947.1	936.3	915.7	886.0	844.3	788.2	737.8
27.5°	865.2	869.2	880.9	891.4	903.0	914.8	913.2	898.5	867.6	819.3	757.5
30°	779.1	770.2	792.0	819.4	838.1	871.1	889.5	890.6	873.3	831.8	771.6
32.5°	659.6	669.3	678.9	712.7	753.5	790.4	827.2	856.7	860.1	832.5	779.9
35°	512.5	524.6	542.2	559.7	603.6	641.4	706.0	762.1	806.9	812.8	780.6
37.5°	413.0	419.0	430.1	447.7	476.4	521.2	571.1	642.2	707.1	755.4	757.4
40°	361.0	362.8	375.2	388.6	411.9	448.8	493.8	556.7	634.3	701.8	729.9
42.5°	322.0	325.8	331.2	344.0	362.6	390.3	432.2	484.1	555.3	632.9	687.9
45°	276.6	281.1	284.4	292.9	306.1	324.8	353.9	401.4	455.6	535.7	609.7
47.5°	246.8	247.0	249.5	256.0	264.9	279.0	299.6	330.1	379.8	444.9	520.8
50°	225.3	228.8	229.7	234.7	241.8	252.0	269.2	295.1	335.9	393.0	462.9
52.5°	210.2	211.2	213.7	217.4	223.5	231.5	246.4	266.6	298.7	347.4	411.6
55°	187.9	187.9	190.4	193.2	196.7	204.0	213.9	228.8	253.2	291.0	344.1
57.5°	167.4	168.5	170.2	171.1	174.1	178.9	187.1	198.5	216.6	245.7	287.9
60°	153.7	155.7	155.4	157.2	159.9	163.6	170.6	179.8	196.0	219.3	255.0
62.5°	141.8	141.7	141.6	143.7	146.3	149.9	154.5	162.4	176.3	196.9	227.2
65°	122.1	121.7	123.2	124.5	125.4	128.0	131.5	138.6	147.8	163.2	186.6
67.5°	104.6	103.3	104.2	104.6	106.1	108.2	111.5	115.8	123.1	135.4	153.2
70°	92.7	91.5	91.3	91.8	93.1	94.6	97.1	101.2	108.0	117.9	130.8
72.5°	80.4	79.6	79.6	80.6	81.2	82.2	83.9	87.7	93.1	100.6	112.6
75°	62.8	62.8	62.8	63.1	63.7	64.6	65.9	67.9	72.0	77.3	85.4
77.5°	47.0	47.0	46.8	46.8	47.7	48.1	48.4	50.2	52.6	56.1	62.0
80°	36.9	35.8	36.2	36.9	37.3	37.5	38.2	38.6	40.6	42.6	46.8
82.5°	27.4	26.5	26.6	27.6	27.7	27.9	28.6	29.1	29.9	31.7	33.9
85°	14.5	14.5	14.7	14.7	14.9	14.7	15.4	15.6	15.6	16.7	18.0
87.5°	7.2	6.9	7.1	7.2	7.1	7.1	7.2	7.3	7.4	7.6	7.6
90°	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3	8.0	8.3	7.4
92.5°	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1	38.6	51.2	56.4
95°	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9	160.2	197.6	175.9
97.5°	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9	327.4	306.1	224.1
100°	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7	381.1	315.5	213.2
102.5°	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9	383.7	298.1	197.2
105°	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0	363.4	267.8	177.6
107.5°	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7	327.8	241.0	165.0
110°	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7	305.5	225.8	160.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9	286.0	215.7	157.5
115°	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0	262.5	204.8	156.6
117.5°	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3	248.3	198.4	157.1
120°	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8	240.8	195.5	158.3
122.5°	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0	234.7	193.7	160.0
125°	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8	226.9	191.1	162.9
127.5°	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4	219.9	190.0	166.1
130°	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1	216.1	189.2	168.2
132.5°	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5	212.7	188.9	169.8
135°	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5	208.2	188.5	172.2
137.5°	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3	204.2	187.8	173.8
140°	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5	201.8	187.6	174.8
142.5°	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0	199.7	187.0	175.7
145°	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5	196.8	186.2	176.2
147.5°	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0	194.1	184.9	176.2
150°	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8	192.2	183.9	176.2
152.5°	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9	190.0	182.6	175.4
155°	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6	186.8	180.2	174.6
157.5°	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8	183.2	178.1	173.4
160°	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2	180.9	176.5	172.9
162.5°	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0	178.4	174.9	171.8
165°	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9	175.2	172.6	170.2
167.5°	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3	172.1	170.1	168.6
170°	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8	170.2	168.5	167.6
172.5°	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8	168.3	167.2	166.7
175°	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8	166.2	165.5	165.5
177.5°	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0	164.9	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	467.2	465.9	464.5	462.0	459.9	456.9	456.0	455.0	451.8	449.0	446.9
5°	495.8	490.5	482.9	475.8	470.1	462.4	458.1	453.5	446.9	440.9	436.1
7.5°	525.7	515.3	503.3	490.5	478.4	466.8	457.5	449.1	439.9	431.2	424.3
10°	549.4	534.4	517.7	499.7	484.4	469.5	456.9	446.0	434.1	423.8	415.2
12.5°	576.5	554.3	531.3	509.4	491.3	470.5	455.3	441.4	427.9	415.6	406.0
15°	608.4	580.3	553.1	523.0	495.4	469.5	451.5	433.9	418.3	405.6	393.2
17.5°	637.6	605.8	569.9	533.3	499.9	469.2	444.0	424.1	404.6	389.1	376.8
20°	654.1	617.9	577.3	539.3	502.4	468.2	440.5	416.8	395.7	379.2	365.4
22.5°	668.4	625.9	583.9	543.3	502.2	465.3	433.9	409.5	386.7	370.6	355.9
25°	683.2	632.4	590.2	542.6	496.7	458.5	423.4	395.7	372.9	353.9	338.8
27.5°	695.8	632.0	581.9	530.7	488.0	449.7	412.2	382.5	358.3	337.7	322.3
30°	704.2	632.8	573.3	522.6	479.6	440.1	403.6	373.7	348.3	327.4	312.9
32.5°	709.5	632.3	565.4	511.3	466.2	431.2	394.3	363.4	337.1	316.7	302.7
35°	712.6	628.4	551.8	488.1	444.7	410.6	379.7	347.6	320.2	301.0	285.2
37.5°	706.3	620.3	536.0	465.7	418.1	384.7	358.5	331.3	305.0	284.0	270.3
40°	696.7	615.0	523.7	449.9	399.8	367.6	345.4	318.6	292.7	272.7	260.0
42.5°	678.3	604.4	510.2	432.3	380.9	348.6	328.2	305.8	281.3	262.5	249.8
45°	633.3	581.0	489.8	406.0	352.9	319.5	301.5	285.2	263.1	244.9	233.8
47.5°	570.8	545.9	460.5	378.2	323.6	291.5	272.8	259.8	243.6	228.8	218.3
50°	527.4	517.1	440.7	359.2	304.2	272.7	254.7	242.9	231.2	216.5	206.9
52.5°	477.4	483.7	417.5	339.6	284.3	253.4	236.5	227.1	216.5	204.3	196.0
55°	406.9	429.9	377.5	306.5	254.7	225.3	209.2	201.0	194.7	185.8	178.5
57.5°	340.9	370.2	334.1	272.5	225.6	200.3	184.9	175.9	171.9	167.2	161.5
60°	301.7	330.6	303.2	249.7	206.2	182.0	168.4	160.7	156.7	153.4	148.6
62.5°	266.7	296.1	273.1	226.5	187.0	164.7	152.8	145.2	142.2	140.5	136.4
65°	218.7	243.9	228.6	190.4	159.7	139.9	129.1	123.9	121.0	120.4	117.7
67.5°	178.0	197.2	186.1	157.9	133.7	116.7	107.5	103.0	100.9	100.6	98.6
70°	151.3	169.3	160.7	135.3	114.4	101.0	93.1	89.2	87.8	87.7	86.5
72.5°	130.5	143.1	136.3	115.1	99.0	86.8	81.0	76.8	75.4	75.7	74.9
75°	96.6	106.0	102.1	87.4	74.5	66.5	61.7	59.1	57.8	58.4	57.5
77.5°	69.6	75.5	71.9	61.7	53.7	48.1	44.5	42.9	41.7	41.7	41.3
80°	52.5	56.0	54.0	47.9	41.3	36.5	33.6	32.5	31.9	31.6	31.4
82.5°	37.4	40.3	38.0	33.8	29.3	26.4	24.8	23.4	22.9	23.0	22.8
85°	18.9	20.0	19.1	16.5	14.7	13.4	12.5	11.9	11.4	11.6	11.2
87.5°	7.7	7.7	7.0	6.2	5.7	5.0	4.8	4.3	4.1	4.2	4.2
90°	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7	1.3	2.0	3.0
92.5°	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1	6.1	9.0	11.5
95°	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3	12.3	16.0	21.7
97.5°	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3	19.6	22.5	27.4
100°	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7	25.0	27.3	32.0
102.5°	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3	30.8	32.9	37.3
105°	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6	39.7	41.7	45.6
107.5°	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6	48.5	50.5	54.4
110°	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9	55.0	56.6	60.3



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9	60.8	62.5	66.2
115°	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2	69.7	71.6	74.9
117.5°	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7	78.2	79.9	83.0
120°	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6	83.6	85.3	88.6
122.5°	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7	88.7	90.3	94.0
125°	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9	95.6	97.6	101.2
127.5°	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5	101.4	104.0	107.6
130°	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0	104.9	107.9	111.9
132.5°	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6	107.8	111.1	115.9
135°	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2	112.5	116.2	121.2
137.5°	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6	117.1	120.6	125.9
140°	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6	120.3	123.6	128.9
142.5°	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8	123.2	126.8	131.6
145°	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9	127.9	130.9	135.9
147.5°	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1	132.7	135.6	140.0
150°	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5	135.9	138.6	142.9
152.5°	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0	139.1	141.8	145.5
155°	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2	144.2	146.2	149.6
157.5°	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4	148.6	150.2	153.2
160°	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6	151.6	152.9	155.5
162.5°	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9	153.9	155.0	157.1
165°	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5	157.2	157.9	159.6
167.5°	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2	159.9	160.2	161.5
170°	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8	161.2	161.6	162.5
172.5°	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0	162.5	162.6	163.3
175°	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2	163.9	163.5	164.2
177.5°	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9	164.6	164.3	164.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	445.6	444.4	442.7	440.1	437.9	434.6	434.6	435.1	435.1	435.0	434.6
5°	432.2	428.9	424.9	420.3	415.5	410.6	409.7	407.9	406.7	405.8	404.7
7.5°	417.8	412.0	406.2	399.8	393.9	389.1	385.7	382.9	381.1	379.1	377.7
10°	408.2	401.0	394.2	387.4	379.8	373.9	370.2	367.6	365.6	363.8	363.0
12.5°	396.8	388.5	381.0	374.5	366.4	360.2	356.7	355.4	353.2	349.4	347.5
15°	380.1	372.4	363.4	353.5	349.6	342.1	337.9	335.9	334.6	331.8	330.9
17.5°	365.8	355.8	345.6	338.3	330.9	324.9	322.5	320.1	318.4	316.0	315.3
20°	354.4	345.4	336.2	328.3	320.6	314.0	312.0	310.3	308.5	307.5	306.5
22.5°	342.8	333.8	326.1	318.8	310.6	306.2	304.2	302.2	301.0	300.2	299.4
25°	326.5	318.6	310.0	303.5	296.9	294.0	292.7	291.6	290.7	289.6	289.4
27.5°	312.0	303.3	296.4	290.2	285.5	283.1	281.8	281.3	281.5	281.9	282.2
30°	301.0	293.1	287.5	282.2	277.8	275.6	275.3	275.3	276.3	276.4	276.9
32.5°	291.1	284.6	278.8	273.7	270.4	268.9	269.8	269.8	270.4	271.0	271.8
35°	276.4	270.7	266.4	261.9	259.1	259.8	260.2	260.6	261.7	263.1	263.9
37.5°	262.5	257.6	253.0	249.6	248.3	249.4	250.5	251.4	252.7	253.7	254.6
40°	252.5	248.7	244.4	241.3	241.8	242.4	243.3	244.4	245.5	246.2	247.0
42.5°	243.2	239.3	235.9	233.4	234.0	234.9	235.4	235.9	237.2	238.5	238.9
45°	229.0	225.9	222.9	221.3	221.8	222.3	222.6	223.3	224.4	225.3	225.6
47.5°	213.1	210.9	208.9	207.4	208.1	207.9	208.5	209.9	210.2	210.8	212.0
50°	202.9	201.0	198.5	198.0	198.0	198.0	198.3	200.0	200.0	201.0	201.8
52.5°	191.6	190.4	188.9	188.0	187.7	187.7	188.6	189.5	189.8	191.1	192.0
55°	175.0	173.7	172.4	171.7	171.3	171.7	173.4	173.9	175.0	175.7	176.3
57.5°	157.7	156.7	155.6	155.2	155.1	155.7	156.7	158.0	158.3	160.3	161.3
60°	146.3	144.7	143.8	143.8	143.4	145.3	145.0	147.1	147.6	148.9	150.4
62.5°	134.5	132.4	132.1	132.1	132.7	133.3	133.8	134.8	136.0	137.6	138.8
65°	115.5	114.4	115.9	115.7	115.3	116.6	116.6	117.7	119.0	120.6	123.0
67.5°	97.6	97.0	97.1	97.1	97.7	98.5	99.2	100.1	101.7	103.3	104.9
70°	85.4	86.1	85.0	85.9	86.5	86.7	87.2	88.5	90.2	91.3	93.1
72.5°	73.6	73.6	73.7	74.1	74.7	75.1	75.6	77.1	79.0	79.9	81.3
75°	56.6	56.5	57.1	57.1	58.2	58.6	59.1	59.8	61.5	62.8	63.9
77.5°	41.4	41.7	41.5	42.2	41.9	42.0	43.4	44.0	44.2	46.8	47.4
80°	31.2	31.6	31.9	32.0	32.2	31.9	33.4	34.0	34.0	35.5	36.7
82.5°	22.4	22.6	23.2	23.5	23.5	23.9	24.0	24.5	25.1	25.7	27.1
85°	11.2	11.9	12.1	11.9	12.1	11.6	12.3	12.5	12.7	12.7	12.7
87.5°	4.2	4.5	4.6	5.0	5.0	5.4	5.3	5.0	5.1	5.7	5.1
90°	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3	8.7	9.0	9.6
92.5°	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1	22.2	19.6	17.9
95°	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9	81.2	63.6	51.7
97.5°	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9	239.4	196.4	156.7
100°	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7	365.7	326.8	279.5
102.5°	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9	423.0	400.3	370.3
105°	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0	466.3	472.6	464.0
107.5°	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7	460.8	490.0	501.9
110°	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7	443.0	484.9	508.3



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9	419.5	466.6	496.5
115°	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0	382.0	431.0	467.3
117.5°	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3	350.3	394.3	431.1
120°	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8	332.7	372.7	406.3
122.5°	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0	318.6	355.6	386.9
125°	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8	301.1	333.1	359.8
127.5°	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4	285.7	314.5	338.8
130°	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1	276.2	303.1	325.7
132.5°	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5	267.0	292.2	313.8
135°	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5	254.1	275.8	294.7
137.5°	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3	241.7	260.3	276.8
140°	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5	234.5	250.4	264.8
142.5°	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0	227.5	241.4	253.8
145°	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5	218.5	229.1	238.8
147.5°	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0	211.8	220.4	227.2
150°	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8	207.5	214.5	220.8
152.5°	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9	203.5	209.7	215.0
155°	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6	197.8	202.8	206.8
157.5°	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8	192.3	196.1	199.3
160°	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2	188.9	192.2	194.5
162.5°	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0	185.1	188.2	190.3
165°	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9	179.8	182.2	183.9
167.5°	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3	175.8	177.1	178.3
170°	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8	172.9	174.2	174.8
172.5°	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8	170.5	171.5	171.9
175°	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8	167.2	167.9	167.9
177.5°	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0	165.3	165.6	165.6
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	433.4	433.2	434.4	433.6	434.4	433.2	433.4	434.6	435.0	435.1	435.1
5°	403.4	404.1	401.8	401.8	401.8	404.1	403.4	404.7	405.8	406.7	407.9
7.5°	376.6	375.7	375.8	374.6	375.8	375.7	376.6	377.7	379.1	381.1	382.9
10°	360.3	359.0	358.5	358.8	358.5	359.0	360.3	363.0	363.8	365.6	367.6
12.5°	346.8	346.6	343.7	343.7	343.7	346.6	346.8	347.5	349.4	353.2	355.4
15°	330.9	326.8	326.3	327.6	326.3	326.8	330.9	330.9	331.8	334.6	335.9
17.5°	315.0	312.7	312.9	312.3	312.9	312.7	315.0	315.3	316.0	318.4	320.1
20°	306.5	305.2	305.0	303.5	305.0	305.2	306.5	306.5	307.5	308.5	310.3
22.5°	298.8	298.4	298.5	296.8	298.5	298.4	298.8	299.4	300.2	301.0	302.2
25°	289.2	290.3	289.4	289.4	289.4	290.3	289.2	289.4	289.6	290.7	291.6
27.5°	282.7	282.7	282.2	282.2	282.2	282.7	282.7	282.2	281.9	281.5	281.3
30°	277.8	277.6	278.0	278.0	278.0	277.6	277.8	276.9	276.4	276.3	275.3
32.5°	272.9	273.1	273.2	273.4	273.2	273.1	272.9	271.8	271.0	270.4	269.8
35°	265.2	265.5	266.2	265.7	266.2	265.5	265.2	263.9	263.1	261.7	260.6
37.5°	255.0	256.0	255.8	256.1	255.8	256.0	255.0	254.6	253.7	252.7	251.4
40°	247.2	247.9	247.7	247.7	247.7	247.9	247.2	247.0	246.2	245.5	244.4
42.5°	239.3	239.8	239.2	238.9	239.2	239.8	239.3	238.9	238.5	237.2	235.9
45°	226.4	225.9	226.6	225.7	226.6	225.9	226.4	225.6	225.3	224.4	223.3
47.5°	211.9	212.4	212.5	213.2	212.5	212.4	211.9	212.0	210.8	210.2	209.9
50°	202.3	203.6	203.6	203.3	203.6	203.6	202.3	201.8	201.0	200.0	200.0
52.5°	192.7	193.3	194.3	194.2	194.3	193.3	192.7	192.0	191.1	189.8	189.5
55°	178.0	178.5	179.0	179.2	179.0	178.5	178.0	176.3	175.7	175.0	173.9
57.5°	162.9	162.7	163.7	164.1	163.7	162.7	162.9	161.3	160.3	158.3	158.0
60°	152.1	152.1	153.9	154.6	153.9	152.1	152.1	150.4	148.9	147.6	147.1
62.5°	140.7	141.5	143.2	142.3	143.2	141.5	140.7	138.8	137.6	136.0	134.8
65°	124.0	125.8	125.6	126.5	125.6	125.8	124.0	123.0	120.6	119.0	117.7
67.5°	106.6	107.7	109.3	109.4	109.3	107.7	106.6	104.9	103.3	101.7	100.1
70°	94.8	96.0	96.8	97.5	96.8	96.0	94.8	93.1	91.3	90.2	88.5
72.5°	83.4	84.0	86.1	85.2	86.1	84.0	83.4	81.3	79.9	79.0	77.1
75°	65.4	67.0	68.3	67.7	68.3	67.0	65.4	63.9	62.8	61.5	59.8
77.5°	48.4	50.0	50.5	50.0	50.5	50.0	48.4	47.4	46.8	44.2	44.0
80°	38.2	38.0	39.3	39.1	39.3	38.0	38.2	36.7	35.5	34.0	34.0
82.5°	28.0	27.8	28.4	28.6	28.4	27.8	28.0	27.1	25.7	25.1	24.5
85°	13.6	14.2	13.4	13.2	13.4	14.2	13.6	12.7	12.7	12.7	12.5
87.5°	5.0	5.1	5.0	4.7	5.0	5.1	5.0	5.1	5.7	5.1	5.0
90°	9.3	9.6	10.0	9.6	10.0	9.6	9.3	9.6	9.0	8.7	8.3
92.5°	17.3	16.3	16.7	16.0	16.7	16.3	17.3	17.9	19.6	22.2	28.1
95°	45.3	42.3	40.0	38.6	40.0	42.3	45.3	51.7	63.6	81.2	119.9
97.5°	132.1	117.1	108.0	105.2	108.0	117.1	132.1	156.7	196.4	239.4	298.9
100°	245.8	221.5	208.5	208.9	208.5	221.5	245.8	279.5	326.8	365.7	392.7
102.5°	344.1	324.9	314.1	306.3	314.1	324.9	344.1	370.3	400.3	423.0	423.9
105°	448.7	436.0	425.4	423.7	425.4	436.0	448.7	464.0	472.6	466.3	433.0
107.5°	502.2	497.9	494.3	491.3	494.3	497.9	502.2	501.9	490.0	460.8	406.7
110°	517.6	520.3	519.6	519.0	519.6	520.3	517.6	508.3	484.9	443.0	381.7



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	513.6	521.9	524.4	524.5	524.4	521.9	513.6	496.5	466.6	419.5	356.9
115°	492.3	506.9	513.6	515.3	513.6	506.9	492.3	467.3	431.0	382.0	324.0
117.5°	457.2	474.0	483.5	485.8	483.5	474.0	457.2	431.1	394.3	350.3	300.3
120°	432.6	451.3	459.3	461.3	459.3	451.3	432.6	406.3	372.7	332.7	287.8
122.5°	410.3	427.1	435.8	438.4	435.8	427.1	410.3	386.9	355.6	318.6	278.0
125°	381.1	395.7	404.1	406.3	404.1	395.7	381.1	359.8	333.1	301.1	264.8
127.5°	357.8	370.3	377.9	379.9	377.9	370.3	357.8	338.8	314.5	285.7	253.4
130°	343.4	355.4	362.4	365.0	362.4	355.4	343.4	325.7	303.1	276.2	246.1
132.5°	330.4	342.3	348.6	350.4	348.6	342.3	330.4	313.8	292.2	267.0	239.5
135°	311.1	321.1	327.1	329.4	327.1	321.1	311.1	294.7	275.8	254.1	230.5
137.5°	290.5	300.7	305.7	307.3	305.7	300.7	290.5	276.8	260.3	241.7	222.3
140°	277.5	286.8	292.1	291.8	292.1	286.8	277.5	264.8	250.4	234.5	217.5
142.5°	264.7	273.0	277.7	277.4	277.7	273.0	264.7	253.8	241.4	227.5	213.0
145°	247.1	254.1	256.8	257.5	256.8	254.1	247.1	238.8	229.1	218.5	207.5
147.5°	233.6	238.3	240.8	241.1	240.8	238.3	233.6	227.2	220.4	211.8	203.0
150°	225.8	229.5	231.5	231.5	231.5	229.5	225.8	220.8	214.5	207.5	199.8
152.5°	218.9	222.3	223.5	223.5	223.5	222.3	218.9	215.0	209.7	203.5	196.9
155°	209.8	212.5	213.2	213.5	213.2	212.5	209.8	206.8	202.8	197.8	192.6
157.5°	201.9	203.9	204.4	204.3	204.4	203.9	201.9	199.3	196.1	192.3	187.8
160°	196.8	198.9	198.9	198.5	198.9	198.9	196.8	194.5	192.2	188.9	185.2
162.5°	191.8	193.5	193.5	193.2	193.5	193.5	191.8	190.3	188.2	185.1	182.0
165°	185.2	186.5	186.2	186.2	186.2	186.5	185.2	183.9	182.2	179.8	177.9
167.5°	178.9	179.8	179.6	179.6	179.6	179.8	178.9	178.3	177.1	175.8	174.3
170°	175.2	175.9	175.5	175.5	175.5	175.9	175.2	174.8	174.2	172.9	171.8
172.5°	172.0	172.7	172.1	171.8	172.1	172.7	172.0	171.9	171.5	170.5	169.8
175°	167.9	168.2	167.9	167.6	167.9	168.2	167.9	167.9	167.9	167.2	166.8
177.5°	165.3	165.6	165.0	165.0	165.0	165.6	165.3	165.6	165.6	165.3	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	434.6	434.6	437.9	440.1	442.7	444.4	445.6	446.9	449.0	451.8	455.0
5°	409.7	410.6	415.5	420.3	424.9	428.9	432.2	436.1	440.9	446.9	453.5
7.5°	385.7	389.1	393.9	399.8	406.2	412.0	417.8	424.3	431.2	439.9	449.1
10°	370.2	373.9	379.8	387.4	394.2	401.0	408.2	415.2	423.8	434.1	446.0
12.5°	356.7	360.2	366.4	374.5	381.0	388.5	396.8	406.0	415.6	427.9	441.4
15°	337.9	342.1	349.6	353.5	363.4	372.4	380.1	393.2	405.6	418.3	433.9
17.5°	322.5	324.9	330.9	338.3	345.6	355.8	365.8	376.8	389.1	404.6	424.1
20°	312.0	314.0	320.6	328.3	336.2	345.4	354.4	365.4	379.2	395.7	416.8
22.5°	304.2	306.2	310.6	318.8	326.1	333.8	342.8	355.9	370.6	386.7	409.5
25°	292.7	294.0	296.9	303.5	310.0	318.6	326.5	338.8	353.9	372.9	395.7
27.5°	281.8	283.1	285.5	290.2	296.4	303.3	312.0	322.3	337.7	358.3	382.5
30°	275.3	275.6	277.8	282.2	287.5	293.1	301.0	312.9	327.4	348.3	373.7
32.5°	269.8	268.9	270.4	273.7	278.8	284.6	291.1	302.7	316.7	337.1	363.4
35°	260.2	259.8	259.1	261.9	266.4	270.7	276.4	285.2	301.0	320.2	347.6
37.5°	250.5	249.4	248.3	249.6	253.0	257.6	262.5	270.3	284.0	305.0	331.3
40°	243.3	242.4	241.8	241.3	244.4	248.7	252.5	260.0	272.7	292.7	318.6
42.5°	235.4	234.9	234.0	233.4	235.9	239.3	243.2	249.8	262.5	281.3	305.8
45°	222.6	222.3	221.8	221.3	222.9	225.9	229.0	233.8	244.9	263.1	285.2
47.5°	208.5	207.9	208.1	207.4	208.9	210.9	213.1	218.3	228.8	243.6	259.8
50°	198.3	198.0	198.0	198.0	198.5	201.0	202.9	206.9	216.5	231.2	242.9
52.5°	188.6	187.7	187.7	188.0	188.9	190.4	191.6	196.0	204.3	216.5	227.1
55°	173.4	171.7	171.3	171.7	172.4	173.7	175.0	178.5	185.8	194.7	201.0
57.5°	156.7	155.7	155.1	155.2	155.6	156.7	157.7	161.5	167.2	171.9	175.9
60°	145.0	145.3	143.4	143.8	143.8	144.7	146.3	148.6	153.4	156.7	160.7
62.5°	133.8	133.3	132.7	132.1	132.1	132.4	134.5	136.4	140.5	142.2	145.2
65°	116.6	116.6	115.3	115.7	115.9	114.4	115.5	117.7	120.4	121.0	123.9
67.5°	99.2	98.5	97.7	97.1	97.1	97.0	97.6	98.6	100.6	100.9	103.0
70°	87.2	86.7	86.5	85.9	85.0	86.1	85.4	86.5	87.7	87.8	89.2
72.5°	75.6	75.1	74.7	74.1	73.7	73.6	73.6	74.9	75.7	75.4	76.8
75°	59.1	58.6	58.2	57.1	57.1	56.5	56.6	57.5	58.4	57.8	59.1
77.5°	43.4	42.0	41.9	42.2	41.5	41.7	41.4	41.3	41.7	41.7	42.9
80°	33.4	31.9	32.2	32.0	31.9	31.6	31.2	31.4	31.6	31.9	32.5
82.5°	24.0	23.9	23.5	23.5	23.2	22.6	22.4	22.8	23.0	22.9	23.4
85°	12.3	11.6	12.1	11.9	12.1	11.9	11.2	11.2	11.6	11.4	11.9
87.5°	5.3	5.4	5.0	5.0	4.6	4.5	4.2	4.2	4.2	4.1	4.3
90°	8.0	8.3	7.4	6.3	5.4	4.3	3.7	3.0	2.0	1.3	0.7
92.5°	38.6	51.2	56.4	42.3	28.0	19.2	14.3	11.5	9.0	6.1	4.1
95°	160.2	197.6	175.9	121.2	71.6	43.3	30.3	21.7	16.0	12.3	11.3
97.5°	327.4	306.1	224.1	133.0	77.1	50.0	36.0	27.4	22.5	19.6	19.3
100°	381.1	315.5	213.2	125.5	76.3	53.0	40.0	32.0	27.3	25.0	24.7
102.5°	383.7	298.1	197.2	119.1	77.4	56.5	44.5	37.3	32.9	30.8	30.3
105°	363.4	267.8	177.6	114.6	80.3	62.3	51.9	45.6	41.7	39.7	38.6
107.5°	327.8	241.0	165.0	114.2	85.8	69.9	60.3	54.4	50.5	48.5	47.6
110°	305.5	225.8	160.2	115.6	90.3	75.3	66.0	60.3	56.6	55.0	53.9



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	286.0	215.7	157.5	118.3	94.8	80.9	71.8	66.2	62.5	60.8	59.9
115°	262.5	204.8	156.6	122.5	102.3	89.6	80.6	74.9	71.6	69.7	68.2
117.5°	248.3	198.4	157.1	128.3	110.2	97.6	89.4	83.0	79.9	78.2	76.7
120°	240.8	195.5	158.3	132.5	115.3	103.2	94.9	88.6	85.3	83.6	82.6
122.5°	234.7	193.7	160.0	136.6	120.6	108.9	100.0	94.0	90.3	88.7	87.7
125°	226.9	191.1	162.9	142.9	128.3	116.6	107.5	101.2	97.6	95.6	94.9
127.5°	219.9	190.0	166.1	148.1	134.9	123.7	114.6	107.6	104.0	101.4	100.5
130°	216.1	189.2	168.2	151.6	138.9	127.9	118.9	111.9	107.9	104.9	104.0
132.5°	212.7	188.9	169.8	154.8	142.3	131.7	122.9	115.9	111.1	107.8	106.6
135°	208.2	188.5	172.2	158.9	147.5	137.2	128.3	121.2	116.2	112.5	111.2
137.5°	204.2	187.8	173.8	161.9	151.2	141.2	132.9	125.9	120.6	117.1	115.6
140°	201.8	187.6	174.8	163.5	153.5	143.9	135.5	128.9	123.6	120.3	118.6
142.5°	199.7	187.0	175.7	165.1	155.4	146.0	138.3	131.6	126.8	123.2	121.8
145°	196.8	186.2	176.2	166.8	157.9	149.2	141.6	135.9	130.9	127.9	126.9
147.5°	194.1	184.9	176.2	168.0	159.9	151.9	145.4	140.0	135.6	132.7	132.1
150°	192.2	183.9	176.2	168.2	161.2	153.5	147.5	142.9	138.6	135.9	135.5
152.5°	190.0	182.6	175.4	168.7	162.0	155.4	149.7	145.5	141.8	139.1	139.0
155°	186.8	180.2	174.6	168.9	163.5	157.9	153.3	149.6	146.2	144.2	144.2
157.5°	183.2	178.1	173.4	169.2	164.4	159.9	156.3	153.2	150.2	148.6	148.4
160°	180.9	176.5	172.9	169.2	165.2	161.2	157.9	155.5	152.9	151.6	151.6
162.5°	178.4	174.9	171.8	168.9	165.5	162.0	159.2	157.1	155.0	153.9	153.9
165°	175.2	172.6	170.2	168.2	165.9	163.2	160.9	159.6	157.9	157.2	157.5
167.5°	172.1	170.1	168.6	167.7	165.8	163.9	162.4	161.5	160.2	159.9	160.2
170°	170.2	168.5	167.6	166.8	165.5	163.9	163.2	162.5	161.6	161.2	161.8
172.5°	168.3	167.2	166.7	166.6	165.5	164.1	163.7	163.3	162.6	162.5	163.0
175°	166.2	165.5	165.5	165.9	165.2	164.6	164.2	164.2	163.5	163.9	164.2
177.5°	164.9	164.6	164.9	165.3	164.9	164.6	164.6	164.6	164.3	164.6	164.9
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	456.0	456.9	459.9	462.0	464.5	465.9	467.2	468.3	469.8	470.0	475.1
5°	458.1	462.4	470.1	475.8	482.9	490.5	495.8	498.2	504.6	509.8	520.4
7.5°	457.5	466.8	478.4	490.5	503.3	515.3	525.7	538.0	546.7	559.9	572.8
10°	456.9	469.5	484.4	499.7	517.7	534.4	549.4	566.1	579.9	598.1	613.7
12.5°	455.3	470.5	491.3	509.4	531.3	554.3	576.5	597.9	610.1	640.5	654.8
15°	451.5	469.5	495.4	523.0	553.1	580.3	608.4	630.8	667.0	693.6	710.6
17.5°	444.0	469.2	499.9	533.3	569.9	605.8	637.6	671.6	710.0	742.2	776.5
20°	440.5	468.2	502.4	539.3	577.3	617.9	654.1	694.9	736.9	768.5	812.5
22.5°	433.9	465.3	502.2	543.3	583.9	625.9	668.4	709.5	758.0	801.5	843.4
25°	423.4	458.5	496.7	542.6	590.2	632.4	683.2	737.8	788.2	844.3	886.0
27.5°	412.2	449.7	488.0	530.7	581.9	632.0	695.8	757.5	819.3	867.6	898.5
30°	403.6	440.1	479.6	522.6	573.3	632.8	704.2	771.6	831.8	873.3	890.6
32.5°	394.3	431.2	466.2	511.3	565.4	632.3	709.5	779.9	832.5	860.1	856.7
35°	379.7	410.6	444.7	488.1	551.8	628.4	712.6	780.6	812.8	806.9	762.1
37.5°	358.5	384.7	418.1	465.7	536.0	620.3	706.3	757.4	755.4	707.1	642.2
40°	345.4	367.6	399.8	449.9	523.7	615.0	696.7	729.9	701.8	634.3	556.7
42.5°	328.2	348.6	380.9	432.3	510.2	604.4	678.3	687.9	632.9	555.3	484.1
45°	301.5	319.5	352.9	406.0	489.8	581.0	633.3	609.7	535.7	455.6	401.4
47.5°	272.8	291.5	323.6	378.2	460.5	545.9	570.8	520.8	444.9	379.8	330.1
50°	254.7	272.7	304.2	359.2	440.7	517.1	527.4	462.9	393.0	335.9	295.1
52.5°	236.5	253.4	284.3	339.6	417.5	483.7	477.4	411.6	347.4	298.7	266.6
55°	209.2	225.3	254.7	306.5	377.5	429.9	406.9	344.1	291.0	253.2	228.8
57.5°	184.9	200.3	225.6	272.5	334.1	370.2	340.9	287.9	245.7	216.6	198.5
60°	168.4	182.0	206.2	249.7	303.2	330.6	301.7	255.0	219.3	196.0	179.8
62.5°	152.8	164.7	187.0	226.5	273.1	296.1	266.7	227.2	196.9	176.3	162.4
65°	129.1	139.9	159.7	190.4	228.6	243.9	218.7	186.6	163.2	147.8	138.6
67.5°	107.5	116.7	133.7	157.9	186.1	197.2	178.0	153.2	135.4	123.1	115.8
70°	93.1	101.0	114.4	135.3	160.7	169.3	151.3	130.8	117.9	108.0	101.2
72.5°	81.0	86.8	99.0	115.1	136.3	143.1	130.5	112.6	100.6	93.1	87.7
75°	61.7	66.5	74.5	87.4	102.1	106.0	96.6	85.4	77.3	72.0	67.9
77.5°	44.5	48.1	53.7	61.7	71.9	75.5	69.6	62.0	56.1	52.6	50.2
80°	33.6	36.5	41.3	47.9	54.0	56.0	52.5	46.8	42.6	40.6	38.6
82.5°	24.8	26.4	29.3	33.8	38.0	40.3	37.4	33.9	31.7	29.9	29.1
85°	12.5	13.4	14.7	16.5	19.1	20.0	18.9	18.0	16.7	15.6	15.6
87.5°	4.8	5.0	5.7	6.2	7.0	7.7	7.7	7.6	7.6	7.4	7.3
90°	1.3	2.0	3.0	3.7	4.3	5.4	6.3	7.4	8.3	8.0	8.3
92.5°	6.1	9.0	11.5	14.3	19.2	28.0	42.3	56.4	51.2	38.6	28.1
95°	12.3	16.0	21.7	30.3	43.3	71.6	121.2	175.9	197.6	160.2	119.9
97.5°	19.6	22.5	27.4	36.0	50.0	77.1	133.0	224.1	306.1	327.4	298.9
100°	25.0	27.3	32.0	40.0	53.0	76.3	125.5	213.2	315.5	381.1	392.7
102.5°	30.8	32.9	37.3	44.5	56.5	77.4	119.1	197.2	298.1	383.7	423.9
105°	39.7	41.7	45.6	51.9	62.3	80.3	114.6	177.6	267.8	363.4	433.0
107.5°	48.5	50.5	54.4	60.3	69.9	85.8	114.2	165.0	241.0	327.8	406.7
110°	55.0	56.6	60.3	66.0	75.3	90.3	115.6	160.2	225.8	305.5	381.7



TEST NUMBER: P331867-830

CATALOG NUMBER: S123DIP-S340D365U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.8	62.5	66.2	71.8	80.9	94.8	118.3	157.5	215.7	286.0	356.9
115°	69.7	71.6	74.9	80.6	89.6	102.3	122.5	156.6	204.8	262.5	324.0
117.5°	78.2	79.9	83.0	89.4	97.6	110.2	128.3	157.1	198.4	248.3	300.3
120°	83.6	85.3	88.6	94.9	103.2	115.3	132.5	158.3	195.5	240.8	287.8
122.5°	88.7	90.3	94.0	100.0	108.9	120.6	136.6	160.0	193.7	234.7	278.0
125°	95.6	97.6	101.2	107.5	116.6	128.3	142.9	162.9	191.1	226.9	264.8
127.5°	101.4	104.0	107.6	114.6	123.7	134.9	148.1	166.1	190.0	219.9	253.4
130°	104.9	107.9	111.9	118.9	127.9	138.9	151.6	168.2	189.2	216.1	246.1
132.5°	107.8	111.1	115.9	122.9	131.7	142.3	154.8	169.8	188.9	212.7	239.5
135°	112.5	116.2	121.2	128.3	137.2	147.5	158.9	172.2	188.5	208.2	230.5
137.5°	117.1	120.6	125.9	132.9	141.2	151.2	161.9	173.8	187.8	204.2	222.3
140°	120.3	123.6	128.9	135.5	143.9	153.5	163.5	174.8	187.6	201.8	217.5
142.5°	123.2	126.8	131.6	138.3	146.0	155.4	165.1	175.7	187.0	199.7	213.0
145°	127.9	130.9	135.9	141.6	149.2	157.9	166.8	176.2	186.2	196.8	207.5
147.5°	132.7	135.6	140.0	145.4	151.9	159.9	168.0	176.2	184.9	194.1	203.0
150°	135.9	138.6	142.9	147.5	153.5	161.2	168.2	176.2	183.9	192.2	199.8
152.5°	139.1	141.8	145.5	149.7	155.4	162.0	168.7	175.4	182.6	190.0	196.9
155°	144.2	146.2	149.6	153.3	157.9	163.5	168.9	174.6	180.2	186.8	192.6
157.5°	148.6	150.2	153.2	156.3	159.9	164.4	169.2	173.4	178.1	183.2	187.8
160°	151.6	152.9	155.5	157.9	161.2	165.2	169.2	172.9	176.5	180.9	185.2
162.5°	153.9	155.0	157.1	159.2	162.0	165.5	168.9	171.8	174.9	178.4	182.0
165°	157.2	157.9	159.6	160.9	163.2	165.9	168.2	170.2	172.6	175.2	177.9
167.5°	159.9	160.2	161.5	162.4	163.9	165.8	167.7	168.6	170.1	172.1	174.3
170°	161.2	161.6	162.5	163.2	163.9	165.5	166.8	167.6	168.5	170.2	171.8
172.5°	162.5	162.6	163.3	163.7	164.1	165.5	166.6	166.7	167.2	168.3	169.8
175°	163.9	163.5	164.2	164.2	164.6	165.2	165.9	165.5	165.5	166.2	166.8
177.5°	164.6	164.3	164.6	164.6	164.6	164.9	165.3	164.9	164.6	164.9	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6	164.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	453.2	453.2	453.2	453.2	453.2	453.2	453.2
2.5°	476.9	477.1	479.0	480.4	479.8	480.6	481.0
5°	521.0	529.0	533.1	536.2	536.4	536.7	538.4
7.5°	583.6	592.1	598.3	607.8	610.5	613.7	612.8
10°	629.3	641.9	652.6	658.3	664.5	673.4	666.2
12.5°	672.0	694.2	710.6	719.4	725.2	727.0	723.5
15°	742.4	771.4	786.9	786.6	806.3	814.8	801.4
17.5°	806.9	833.7	855.2	866.1	882.6	886.2	884.6
20°	846.5	875.7	892.4	911.3	919.8	927.5	928.8
22.5°	880.5	906.8	924.7	940.4	947.5	951.2	953.4
25°	915.7	936.3	947.1	952.5	954.5	954.0	951.2
27.5°	913.2	914.8	903.0	891.4	880.9	869.2	865.2
30°	889.5	871.1	838.1	819.4	792.0	770.2	779.1
32.5°	827.2	790.4	753.5	712.7	678.9	669.3	659.6
35°	706.0	641.4	603.6	559.7	542.2	524.6	512.5
37.5°	571.1	521.2	476.4	447.7	430.1	419.0	413.0
40°	493.8	448.8	411.9	388.6	375.2	362.8	361.0
42.5°	432.2	390.3	362.6	344.0	331.2	325.8	322.0
45°	353.9	324.8	306.1	292.9	284.4	281.1	276.6
47.5°	299.6	279.0	264.9	256.0	249.5	247.0	246.8
50°	269.2	252.0	241.8	234.7	229.7	228.8	225.3
52.5°	246.4	231.5	223.5	217.4	213.7	211.2	210.2
55°	213.9	204.0	196.7	193.2	190.4	187.9	187.9
57.5°	187.1	178.9	174.1	171.1	170.2	168.5	167.4
60°	170.6	163.6	159.9	157.2	155.4	155.7	153.7
62.5°	154.5	149.9	146.3	143.7	141.6	141.7	141.8
65°	131.5	128.0	125.4	124.5	123.2	121.7	122.1
67.5°	111.5	108.2	106.1	104.6	104.2	103.3	104.6
70°	97.1	94.6	93.1	91.8	91.3	91.5	92.7
72.5°	83.9	82.2	81.2	80.6	79.6	79.6	80.4
75°	65.9	64.6	63.7	63.1	62.8	62.8	62.8
77.5°	48.4	48.1	47.7	46.8	46.8	47.0	47.0
80°	38.2	37.5	37.3	36.9	36.2	35.8	36.9
82.5°	28.6	27.9	27.7	27.6	26.6	26.5	27.4
85°	15.4	14.7	14.9	14.7	14.7	14.5	14.5
87.5°	7.2	7.1	7.1	7.2	7.1	6.9	7.2
90°	8.7	9.0	9.6	9.3	9.6	10.0	9.6
92.5°	22.2	19.6	17.9	17.3	16.3	16.7	16.0
95°	81.2	63.6	51.7	45.3	42.3	40.0	38.6
97.5°	239.4	196.4	156.7	132.1	117.1	108.0	105.2
100°	365.7	326.8	279.5	245.8	221.5	208.5	208.9
102.5°	423.0	400.3	370.3	344.1	324.9	314.1	306.3
105°	466.3	472.6	464.0	448.7	436.0	425.4	423.7
107.5°	460.8	490.0	501.9	502.2	497.9	494.3	491.3
110°	443.0	484.9	508.3	517.6	520.3	519.6	519.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	419.5	466.6	496.5	513.6	521.9	524.4	524.5
115°	382.0	431.0	467.3	492.3	506.9	513.6	515.3
117.5°	350.3	394.3	431.1	457.2	474.0	483.5	485.8
120°	332.7	372.7	406.3	432.6	451.3	459.3	461.3
122.5°	318.6	355.6	386.9	410.3	427.1	435.8	438.4
125°	301.1	333.1	359.8	381.1	395.7	404.1	406.3
127.5°	285.7	314.5	338.8	357.8	370.3	377.9	379.9
130°	276.2	303.1	325.7	343.4	355.4	362.4	365.0
132.5°	267.0	292.2	313.8	330.4	342.3	348.6	350.4
135°	254.1	275.8	294.7	311.1	321.1	327.1	329.4
137.5°	241.7	260.3	276.8	290.5	300.7	305.7	307.3
140°	234.5	250.4	264.8	277.5	286.8	292.1	291.8
142.5°	227.5	241.4	253.8	264.7	273.0	277.7	277.4
145°	218.5	229.1	238.8	247.1	254.1	256.8	257.5
147.5°	211.8	220.4	227.2	233.6	238.3	240.8	241.1
150°	207.5	214.5	220.8	225.8	229.5	231.5	231.5
152.5°	203.5	209.7	215.0	218.9	222.3	223.5	223.5
155°	197.8	202.8	206.8	209.8	212.5	213.2	213.5
157.5°	192.3	196.1	199.3	201.9	203.9	204.4	204.3
160°	188.9	192.2	194.5	196.8	198.9	198.9	198.5
162.5°	185.1	188.2	190.3	191.8	193.5	193.5	193.2
165°	179.8	182.2	183.9	185.2	186.5	186.2	186.2
167.5°	175.8	177.1	178.3	178.9	179.8	179.6	179.6
170°	172.9	174.2	174.8	175.2	175.9	175.5	175.5
172.5°	170.5	171.5	171.9	172.0	172.7	172.1	171.8
175°	167.2	167.9	167.9	167.9	168.2	167.9	167.6
177.5°	165.3	165.6	165.6	165.3	165.6	165.0	165.0
180°	164.6	164.6	164.6	164.6	164.6	164.6	164.6

(END OF REPORT)