

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: P331876-830

Luminaire Tested: **S123DIP-S340D585U830-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331876-830  
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-S340D585U830-4F0-1E-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: 3368.0 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49  
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')  
CIE Type: General Diffuse

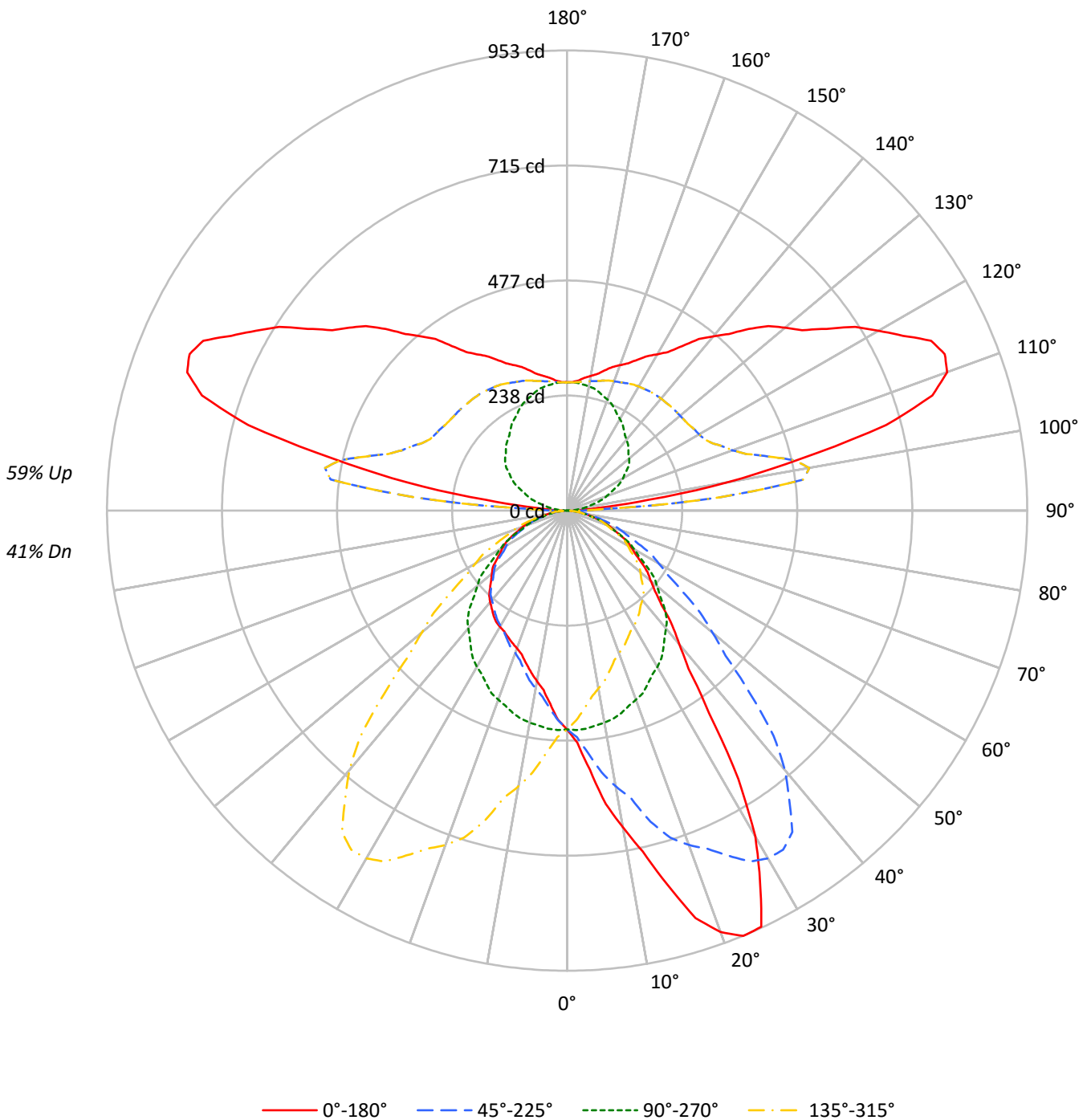
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	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	1.3
10°-20°	143.2	4.3
20°-30°	240.3	7.1
30°-40°	272.0	8.1
40°-50°	244.0	7.2
50°-60°	196.9	5.8
60°-70°	137.2	4.1
70°-80°	72.1	2.1
80°-90°	19.7	0.6
90°-100°	147.8	4.4
100°-110°	418.5	12.4
110°-120°	411.7	12.2
120°-130°	328.4	9.7
130°-140°	258.9	7.7
140°-150°	193.2	5.7
150°-160°	134.7	4.0
160°-170°	79.1	2.3
170°-180°	25.7	0.8
0°-30°	428.1	12.7
0°-40°	700.1	20.8
0°-60°	1140.9	33.9
0°-90°	1369.9	40.7
90°-120°	978.0	29.0
90°-150°	1758.5	52.2
90°-180°	1998.0	59.3
0°-180°	3368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	453	453	453	453	453	
5°	538	454	402	454	538	56
15°	801	434	328	434	801	231
25°	951	396	289	396	951	417
35°	512	348	266	348	512	333
45°	277	285	226	285	277	219
55°	188	201	179	201	188	169
65°	122	124	126	124	122	122
75°	63	59	68	59	63	67
85°	14	12	13	12	14	18
90°	16	1	16	1	16	9
95°	62	18	62	18	62	112
105°	684	62	684	62	684	675
115°	832	110	832	110	832	808
125°	656	153	656	153	656	594
135°	532	180	532	180	532	412
145°	416	205	416	205	416	264
155°	345	233	345	233	345	161
165°	300	254	300	254	300	86
175°	270	265	270	265	270	26
180°	266	266	266	266	266	



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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°	8.4	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.4	8.7	8.5
90°	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5	12.9	13.5	11.8
92.5°	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2	62.4	82.7	91.0
95°	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5	258.5	318.8	283.9
97.5°	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5	528.6	494.1	361.7
100°	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9	615.0	509.1	344.0
102.5°	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2	619.3	481.2	318.3
105°	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9	586.5	432.3	286.5
107.5°	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5	529.1	389.0	266.4
110°	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0	492.9	364.5	258.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1	461.6	348.2	254.3
115°	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1	423.7	330.6	252.7
117.5°	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7	400.8	320.3	253.6
120°	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5	388.7	315.6	255.3
122.5°	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6	378.8	312.5	258.4
125°	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3	366.1	308.6	262.9
127.5°	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9	355.0	306.6	268.1
130°	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3	348.9	305.4	271.5
132.5°	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5	343.3	304.9	274.1
135°	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0	336.0	304.3	278.0
137.5°	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8	329.7	303.1	280.5
140°	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1	325.7	302.7	282.2
142.5°	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7	322.3	301.8	283.5
145°	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9	317.7	300.5	284.4
147.5°	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7	313.2	298.5	284.4
150°	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5	310.2	296.7	284.4
152.5°	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8	306.8	294.6	283.1
155°	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8	301.6	290.9	281.7
157.5°	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2	295.8	287.5	279.8
160°	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9	291.9	284.9	279.0
162.5°	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8	288.0	282.4	277.3
165°	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1	282.8	278.5	274.8
167.5°	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3	277.8	274.6	272.1
170°	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4	274.8	272.0	270.4
172.5°	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0	271.7	269.8	269.1
175°	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4	268.2	267.2	267.2
177.5°	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5	266.0	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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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°	8.6	8.4	7.5	6.6	6.0	5.2	5.0	4.4	4.3	4.5	4.6
90°	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0	2.2	3.2	4.8
92.5°	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7	9.9	14.4	18.6
95°	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3	19.9	25.8	35.0
97.5°	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2	31.8	36.4	44.3
100°	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8	40.3	44.1	51.7
102.5°	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8	49.8	53.2	60.2
105°	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4	64.0	67.2	73.6
107.5°	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7	78.4	81.5	87.8
110°	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1	88.7	91.4	97.3





TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5	98.2	100.9	106.8
115°	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2	112.4	115.6	120.9
117.5°	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9	126.3	129.0	133.9
120°	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4	135.0	137.6	143.0
122.5°	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5	143.1	145.8	151.6
125°	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3	154.3	157.5	163.4
127.5°	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1	163.7	167.8	173.7
130°	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8	169.4	174.2	180.6
132.5°	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0	174.1	179.4	187.1
135°	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6	181.7	187.7	195.7
137.5°	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6	188.9	194.7	203.3
140°	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4	194.1	199.4	208.0
142.5°	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5	198.8	204.6	212.4
145°	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8	206.4	211.3	219.3
147.5°	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2	214.1	219.0	225.9
150°	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8	219.3	223.7	230.6
152.5°	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4	224.5	228.8	235.0
155°	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8	232.8	236.0	241.4
157.5°	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4	239.9	242.4	247.2
160°	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6	244.6	246.8	251.1
162.5°	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5	248.5	250.2	253.6
165°	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3	253.7	254.9	257.5
167.5°	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7	258.1	258.5	260.6
170°	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3	260.2	260.7	262.3
172.5°	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0	262.3	262.5	263.6
175°	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0	264.5	264.0	265.0
177.5°	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0	265.6	265.1	265.6
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-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°	4.7	5.1	5.3	5.7	5.8	6.4	6.3	6.0	6.1	6.8	6.3
90°	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5	13.9	14.5	15.6
92.5°	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2	35.9	31.8	28.9
95°	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5	131.2	102.6	83.3
97.5°	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5	386.4	317.1	252.8
100°	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9	590.3	527.4	451.0
102.5°	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2	682.8	646.1	597.7
105°	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9	752.6	762.9	748.9
107.5°	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5	743.9	790.9	810.0
110°	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0	715.0	782.8	820.4



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1	677.1	753.1	801.4
115°	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1	616.6	695.7	754.2
117.5°	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7	565.4	636.4	695.9
120°	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5	537.1	601.5	655.9
122.5°	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6	514.3	574.0	624.4
125°	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3	486.0	537.6	580.6
127.5°	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9	461.2	507.7	546.9
130°	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3	445.6	489.2	525.8
132.5°	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5	431.0	471.6	506.4
135°	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0	410.2	445.2	475.8
137.5°	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8	390.1	420.2	446.8
140°	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1	378.4	404.3	427.3
142.5°	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7	367.3	389.6	409.7
145°	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9	352.7	369.9	385.5
147.5°	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7	341.8	355.7	366.7
150°	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5	334.9	346.2	356.5
152.5°	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8	328.5	338.5	346.9
155°	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8	319.3	327.4	333.8
157.5°	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2	310.4	316.7	321.7
160°	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9	304.8	310.2	314.0
162.5°	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8	298.8	303.8	307.1
165°	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1	290.3	294.1	296.7
167.5°	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3	283.7	285.9	287.9
170°	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4	279.0	281.2	282.2
172.5°	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0	275.1	276.8	277.5
175°	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4	269.8	271.0	271.0
177.5°	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5	266.8	267.3	267.3
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-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°	6.1	6.3	6.2	5.9	6.2	6.3	6.1	6.3	6.8	6.1	6.0
90°	15.1	15.6	16.1	15.6	16.1	15.6	15.1	15.6	14.5	13.9	13.5
92.5°	28.0	26.3	26.9	25.9	26.9	26.3	28.0	28.9	31.8	35.9	45.2
95°	73.1	68.2	64.5	62.4	64.5	68.2	73.1	83.3	102.6	131.2	193.5
97.5°	213.1	188.9	174.4	169.8	174.4	188.9	213.1	252.8	317.1	386.4	482.5
100°	396.7	357.5	336.6	337.1	336.6	357.5	396.7	451.0	527.4	590.3	633.9
102.5°	555.4	524.3	506.8	494.5	506.8	524.3	555.4	597.7	646.1	682.8	684.2
105°	724.2	703.7	686.5	683.8	686.5	703.7	724.2	748.9	762.9	752.6	698.9
107.5°	810.5	803.6	797.8	792.9	797.8	803.6	810.5	810.0	790.9	743.9	656.5
110°	835.5	839.7	838.7	837.5	838.7	839.7	835.5	820.4	782.8	715.0	616.0



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	829.0	842.4	846.4	846.6	846.4	842.4	829.0	801.4	753.1	677.1	576.1
115°	794.6	818.2	829.0	831.7	829.0	818.2	794.6	754.2	695.7	616.6	523.1
117.5°	737.9	765.0	780.5	784.1	780.5	765.0	737.9	695.9	636.4	565.4	484.7
120°	698.3	728.5	741.3	744.6	741.3	728.5	698.3	655.9	601.5	537.1	464.5
122.5°	662.2	689.3	703.5	707.6	703.5	689.3	662.2	624.4	574.0	514.3	448.6
125°	615.0	638.7	652.1	655.9	652.1	638.7	615.0	580.6	537.6	486.0	427.3
127.5°	577.5	597.7	609.8	613.3	609.8	597.7	577.5	546.9	507.7	461.2	408.9
130°	554.3	573.6	584.9	589.2	584.9	573.6	554.3	525.8	489.2	445.6	397.3
132.5°	533.2	552.5	562.5	565.5	562.5	552.5	533.2	506.4	471.6	431.0	386.5
135°	502.1	518.2	527.9	531.7	527.9	518.2	502.1	475.8	445.2	410.2	372.0
137.5°	468.9	485.2	493.4	495.9	493.4	485.2	468.9	446.8	420.2	390.1	358.8
140°	447.8	462.9	471.5	470.9	471.5	462.9	447.8	427.3	404.3	378.4	351.1
142.5°	427.2	440.5	448.3	447.7	448.3	440.5	427.2	409.7	389.6	367.3	343.7
145°	398.9	410.2	414.5	415.6	414.5	410.2	398.9	385.5	369.9	352.7	334.9
147.5°	376.9	384.6	388.7	389.1	388.7	384.6	376.9	366.7	355.7	341.8	327.7
150°	364.5	370.4	373.6	373.6	373.6	370.4	364.5	356.5	346.2	334.9	322.5
152.5°	353.3	358.8	360.7	360.7	360.7	358.8	353.3	346.9	338.5	328.5	317.8
155°	338.7	343.0	344.0	344.6	344.0	343.0	338.7	333.8	327.4	319.3	310.8
157.5°	325.9	329.1	330.0	329.9	330.0	329.1	325.9	321.7	316.7	310.4	303.2
160°	317.7	320.9	320.9	320.4	320.9	320.9	317.7	314.0	310.2	304.8	298.9
162.5°	309.5	312.4	312.4	311.8	312.4	312.4	309.5	307.1	303.8	298.8	293.8
165°	298.9	301.0	300.5	300.5	300.5	301.0	298.9	296.7	294.1	290.3	287.1
167.5°	288.8	290.3	289.7	289.7	289.7	290.3	288.8	287.9	285.9	283.7	281.3
170°	282.8	283.9	283.3	283.3	283.3	283.9	282.8	282.2	281.2	279.0	277.4
172.5°	277.6	278.7	277.8	277.3	277.8	278.7	277.6	277.5	276.8	275.1	274.0
175°	271.0	271.5	271.0	270.4	271.0	271.5	271.0	271.0	271.0	269.8	269.4
177.5°	266.8	267.3	266.5	266.5	266.5	267.3	266.8	267.3	267.3	266.8	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-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°	6.3	6.4	5.8	5.7	5.3	5.1	4.7	4.6	4.5	4.3	4.4
90°	12.9	13.5	11.8	10.2	8.6	7.0	5.9	4.8	3.2	2.2	1.0
92.5°	62.4	82.7	91.0	68.2	45.1	31.1	23.1	18.6	14.4	9.9	6.7
95°	258.5	318.8	283.9	195.7	115.6	69.8	48.9	35.0	25.8	19.9	18.3
97.5°	528.6	494.1	361.7	214.7	124.4	80.8	58.1	44.3	36.4	31.8	31.2
100°	615.0	509.1	344.0	202.6	123.1	85.5	64.5	51.7	44.1	40.3	39.8
102.5°	619.3	481.2	318.3	192.4	124.8	91.0	71.8	60.2	53.2	49.8	48.8
105°	586.5	432.3	286.5	184.9	129.6	100.6	83.9	73.6	67.2	64.0	62.4
107.5°	529.1	389.0	266.4	184.4	138.4	112.9	97.5	87.8	81.5	78.4	76.7
110°	492.9	364.5	258.5	186.5	145.7	121.5	106.4	97.3	91.4	88.7	87.1



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	461.6	348.2	254.3	190.9	153.0	130.5	115.9	106.8	100.9	98.2	96.5
115°	423.7	330.6	252.7	197.8	165.0	144.6	130.1	120.9	115.6	112.4	110.2
117.5°	400.8	320.3	253.6	207.1	177.9	157.6	144.2	133.9	129.0	126.3	123.9
120°	388.7	315.6	255.3	214.0	186.0	166.6	153.3	143.0	137.6	135.0	133.4
122.5°	378.8	312.5	258.4	220.5	194.6	175.7	161.4	151.6	145.8	143.1	141.5
125°	366.1	308.6	262.9	230.6	207.0	188.1	173.6	163.4	157.5	154.3	153.3
127.5°	355.0	306.6	268.1	239.0	217.7	199.5	185.0	173.7	167.8	163.7	162.1
130°	348.9	305.4	271.5	244.6	224.1	206.4	191.9	180.6	174.2	169.4	167.8
132.5°	343.3	304.9	274.1	249.8	229.8	212.4	198.4	187.1	179.4	174.1	172.0
135°	336.0	304.3	278.0	256.5	238.2	221.5	207.0	195.7	187.7	181.7	179.6
137.5°	329.7	303.1	280.5	261.4	243.9	227.9	214.5	203.3	194.7	188.9	186.6
140°	325.7	302.7	282.2	264.0	247.8	232.2	218.8	208.0	199.4	194.1	191.4
142.5°	322.3	301.8	283.5	266.6	250.8	235.7	223.1	212.4	204.6	198.8	196.5
145°	317.7	300.5	284.4	269.4	254.9	240.8	228.5	219.3	211.3	206.4	204.8
147.5°	313.2	298.5	284.4	271.1	258.1	245.2	234.7	225.9	219.0	214.1	213.2
150°	310.2	296.7	284.4	271.5	260.2	247.8	238.2	230.6	223.7	219.3	218.8
152.5°	306.8	294.6	283.1	272.4	261.5	250.8	241.6	235.0	228.8	224.5	224.4
155°	301.6	290.9	281.7	272.6	264.0	254.9	247.3	241.4	236.0	232.8	232.8
157.5°	295.8	287.5	279.8	273.1	265.3	258.1	252.2	247.2	242.4	239.9	239.4
160°	291.9	284.9	279.0	273.1	266.6	260.2	254.9	251.1	246.8	244.6	244.6
162.5°	288.0	282.4	277.3	272.7	267.1	261.5	256.9	253.6	250.2	248.5	248.5
165°	282.8	278.5	274.8	271.5	267.7	263.4	259.7	257.5	254.9	253.7	254.3
167.5°	277.8	274.6	272.1	270.6	267.6	264.5	262.1	260.6	258.5	258.1	258.7
170°	274.8	272.0	270.4	269.4	267.2	264.5	263.4	262.3	260.7	260.2	261.3
172.5°	271.7	269.8	269.1	268.9	267.2	264.9	264.3	263.6	262.5	262.3	263.0
175°	268.2	267.2	267.2	267.7	266.6	265.6	265.0	265.0	264.0	264.5	265.0
177.5°	266.0	265.6	266.0	266.8	266.0	265.6	265.6	265.6	265.1	265.6	266.0
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-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°	5.0	5.2	6.0	6.6	7.5	8.4	8.6	8.5	8.7	8.4	8.3
90°	2.2	3.2	4.8	5.9	7.0	8.6	10.2	11.8	13.5	12.9	13.5
92.5°	9.9	14.4	18.6	23.1	31.1	45.1	68.2	91.0	82.7	62.4	45.2
95°	19.9	25.8	35.0	48.9	69.8	115.6	195.7	283.9	318.8	258.5	193.5
97.5°	31.8	36.4	44.3	58.1	80.8	124.4	214.7	361.7	494.1	528.6	482.5
100°	40.3	44.1	51.7	64.5	85.5	123.1	202.6	344.0	509.1	615.0	633.9
102.5°	49.8	53.2	60.2	71.8	91.0	124.8	192.4	318.3	481.2	619.3	684.2
105°	64.0	67.2	73.6	83.9	100.6	129.6	184.9	286.5	432.3	586.5	698.9
107.5°	78.4	81.5	87.8	97.5	112.9	138.4	184.4	266.4	389.0	529.1	656.5
110°	88.7	91.4	97.3	106.4	121.5	145.7	186.5	258.5	364.5	492.9	616.0





TEST NUMBER: P331876-830

CATALOG NUMBER: S123DIP-S340D585U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	98.2	100.9	106.8	115.9	130.5	153.0	190.9	254.3	348.2	461.6	576.1
115°	112.4	115.6	120.9	130.1	144.6	165.0	197.8	252.7	330.6	423.7	523.1
117.5°	126.3	129.0	133.9	144.2	157.6	177.9	207.1	253.6	320.3	400.8	484.7
120°	135.0	137.6	143.0	153.3	166.6	186.0	214.0	255.3	315.6	388.7	464.5
122.5°	143.1	145.8	151.6	161.4	175.7	194.6	220.5	258.4	312.5	378.8	448.6
125°	154.3	157.5	163.4	173.6	188.1	207.0	230.6	262.9	308.6	366.1	427.3
127.5°	163.7	167.8	173.7	185.0	199.5	217.7	239.0	268.1	306.6	355.0	408.9
130°	169.4	174.2	180.6	191.9	206.4	224.1	244.6	271.5	305.4	348.9	397.3
132.5°	174.1	179.4	187.1	198.4	212.4	229.8	249.8	274.1	304.9	343.3	386.5
135°	181.7	187.7	195.7	207.0	221.5	238.2	256.5	278.0	304.3	336.0	372.0
137.5°	188.9	194.7	203.3	214.5	227.9	243.9	261.4	280.5	303.1	329.7	358.8
140°	194.1	199.4	208.0	218.8	232.2	247.8	264.0	282.2	302.7	325.7	351.1
142.5°	198.8	204.6	212.4	223.1	235.7	250.8	266.6	283.5	301.8	322.3	343.7
145°	206.4	211.3	219.3	228.5	240.8	254.9	269.4	284.4	300.5	317.7	334.9
147.5°	214.1	219.0	225.9	234.7	245.2	258.1	271.1	284.4	298.5	313.2	327.7
150°	219.3	223.7	230.6	238.2	247.8	260.2	271.5	284.4	296.7	310.2	322.5
152.5°	224.5	228.8	235.0	241.6	250.8	261.5	272.4	283.1	294.6	306.8	317.8
155°	232.8	236.0	241.4	247.3	254.9	264.0	272.6	281.7	290.9	301.6	310.8
157.5°	239.9	242.4	247.2	252.2	258.1	265.3	273.1	279.8	287.5	295.8	303.2
160°	244.6	246.8	251.1	254.9	260.2	266.6	273.1	279.0	284.9	291.9	298.9
162.5°	248.5	250.2	253.6	256.9	261.5	267.1	272.7	277.3	282.4	288.0	293.8
165°	253.7	254.9	257.5	259.7	263.4	267.7	271.5	274.8	278.5	282.8	287.1
167.5°	258.1	258.5	260.6	262.1	264.5	267.6	270.6	272.1	274.6	277.8	281.3
170°	260.2	260.7	262.3	263.4	264.5	267.2	269.4	270.4	272.0	274.8	277.4
172.5°	262.3	262.5	263.6	264.3	264.9	267.2	268.9	269.1	269.8	271.7	274.0
175°	264.5	264.0	265.0	265.0	265.6	266.6	267.7	267.2	267.2	268.2	269.4
177.5°	265.6	265.1	265.6	265.6	265.6	266.0	266.8	266.0	265.6	266.0	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6	265.6



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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°	8.2	8.2	8.2	8.3	8.2	8.1	8.4
90°	13.9	14.5	15.6	15.1	15.6	16.1	15.6
92.5°	35.9	31.8	28.9	28.0	26.3	26.9	25.9
95°	131.2	102.6	83.3	73.1	68.2	64.5	62.4
97.5°	386.4	317.1	252.8	213.1	188.9	174.4	169.8
100°	590.3	527.4	451.0	396.7	357.5	336.6	337.1
102.5°	682.8	646.1	597.7	555.4	524.3	506.8	494.5
105°	752.6	762.9	748.9	724.2	703.7	686.5	683.8
107.5°	743.9	790.9	810.0	810.5	803.6	797.8	792.9
110°	715.0	782.8	820.4	835.5	839.7	838.7	837.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	677.1	753.1	801.4	829.0	842.4	846.4	846.6
115°	616.6	695.7	754.2	794.6	818.2	829.0	831.7
117.5°	565.4	636.4	695.9	737.9	765.0	780.5	784.1
120°	537.1	601.5	655.9	698.3	728.5	741.3	744.6
122.5°	514.3	574.0	624.4	662.2	689.3	703.5	707.6
125°	486.0	537.6	580.6	615.0	638.7	652.1	655.9
127.5°	461.2	507.7	546.9	577.5	597.7	609.8	613.3
130°	445.6	489.2	525.8	554.3	573.6	584.9	589.2
132.5°	431.0	471.6	506.4	533.2	552.5	562.5	565.5
135°	410.2	445.2	475.8	502.1	518.2	527.9	531.7
137.5°	390.1	420.2	446.8	468.9	485.2	493.4	495.9
140°	378.4	404.3	427.3	447.8	462.9	471.5	470.9
142.5°	367.3	389.6	409.7	427.2	440.5	448.3	447.7
145°	352.7	369.9	385.5	398.9	410.2	414.5	415.6
147.5°	341.8	355.7	366.7	376.9	384.6	388.7	389.1
150°	334.9	346.2	356.5	364.5	370.4	373.6	373.6
152.5°	328.5	338.5	346.9	353.3	358.8	360.7	360.7
155°	319.3	327.4	333.8	338.7	343.0	344.0	344.6
157.5°	310.4	316.7	321.7	325.9	329.1	330.0	329.9
160°	304.8	310.2	314.0	317.7	320.9	320.9	320.4
162.5°	298.8	303.8	307.1	309.5	312.4	312.4	311.8
165°	290.3	294.1	296.7	298.9	301.0	300.5	300.5
167.5°	283.7	285.9	287.9	288.8	290.3	289.7	289.7
170°	279.0	281.2	282.2	282.8	283.9	283.3	283.3
172.5°	275.1	276.8	277.5	277.6	278.7	277.8	277.3
175°	269.8	271.0	271.0	271.0	271.5	271.0	270.4
177.5°	266.8	267.3	267.3	266.8	267.3	266.5	266.5
180°	265.6	265.6	265.6	265.6	265.6	265.6	265.6

(END OF REPORT)