

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: P331874-830

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331874-830  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
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-A  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 585 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3576.5 lumens  
Efficiency: N/A  
Efficacy: 139.7 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: Semi-Indirect

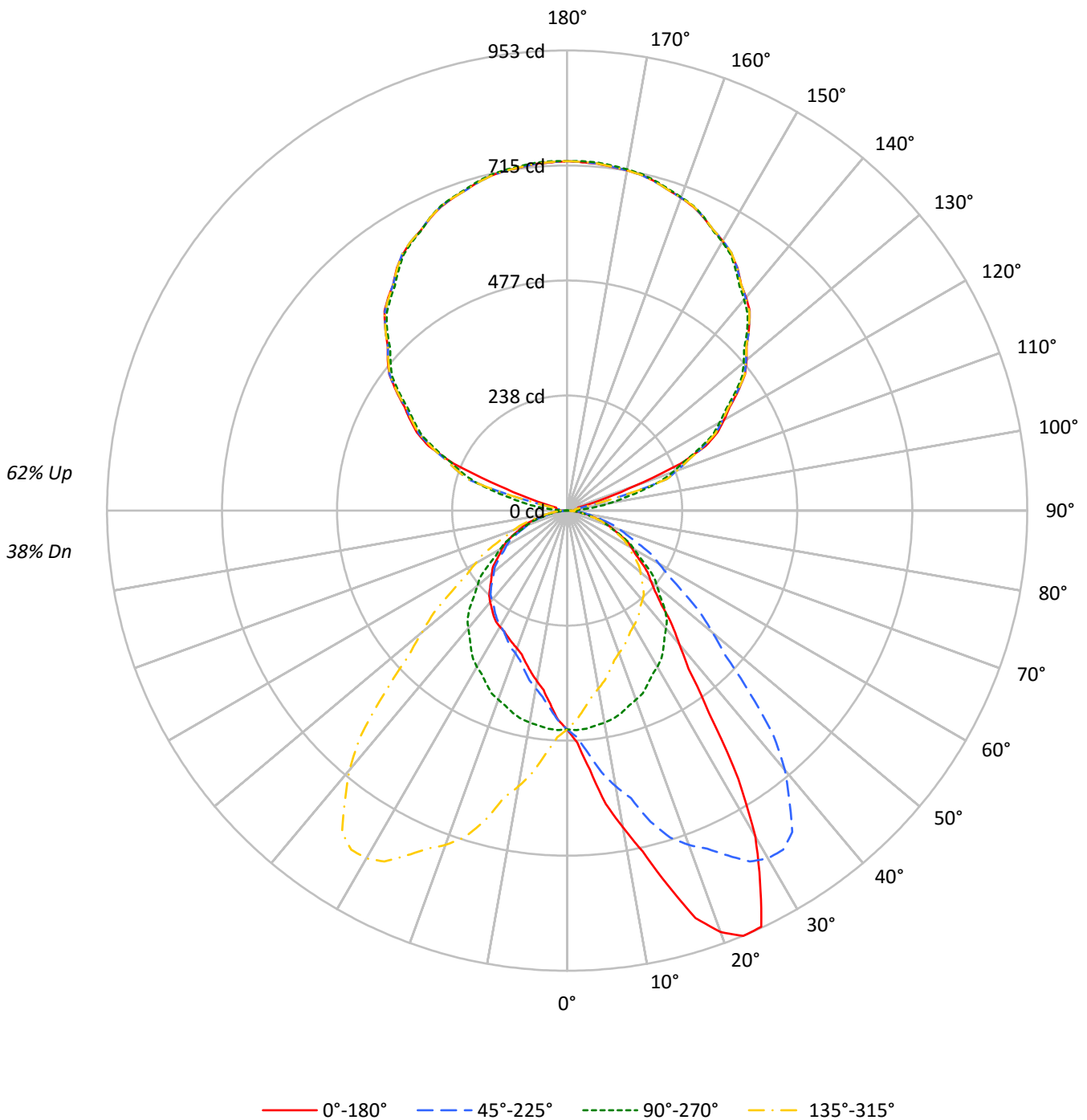
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20			20			20			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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	80	77	68	65	63	53	52	51	40	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	48	42	60	51	44	39	42	37	33	34	30	27	26	23	21	18
6	61	50	42	36	56	46	39	34	38	32	29	30	27	24	23	21	19	16
7	57	45	37	32	51	41	34	29	34	29	25	28	24	21	21	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10

**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	1.2
10°-20°	143.2	4.0
20°-30°	240.3	6.7
30°-40°	272.0	7.6
40°-50°	244.0	6.8
50°-60°	196.9	5.5
60°-70°	137.2	3.8
70°-80°	72.1	2.0
80°-90°	19.7	0.5
90°-100°	26.3	0.7
100°-110°	125.4	3.5
110°-120°	301.2	8.4
120°-130°	383.5	10.7
130°-140°	409.8	11.5
140°-150°	383.2	10.7
150°-160°	309.1	8.6
160°-170°	199.5	5.6
170°-180°	68.7	1.9
0°-30°	428.1	12.0
0°-40°	700.1	19.6
0°-60°	1140.9	31.9
0°-90°	1369.9	38.3
90°-120°	452.8	12.7
90°-150°	1629.3	45.6
90°-180°	2207.0	61.7
0°-180°	3576.5	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	8
95°	20	33	20	33	20	17
105°	24	160	24	160	24	54
115°	316	300	316	300	316	292
125°	432	424	432	424	432	386
135°	533	527	533	527	533	411
145°	614	608	614	608	614	384
155°	669	670	669	670	669	309
165°	705	707	705	707	705	199
175°	721	724	721	724	721	69
180°	724	724	724	724	724	



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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°	8.5	8.1	8.2	8.4	8.1	8.2	8.3	8.4	8.5	8.6	8.4
90°	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9	13.4	12.9	11.3
92.5°	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3	14.5	13.8	12.6
95°	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4	17.5	16.7	15.4
97.5°	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2	18.3	17.3	25.9
100°	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6	18.7	17.7	36.4
102.5°	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4	32.4	35.3	55.7
105°	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4	96.6	117.7	128.5
107.5°	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7	200.3	215.7	214.1
110°	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6	238.5	242.4	241.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7	269.7	269.6	268.2
115°	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9	309.8	308.6	307.5
117.5°	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4	347.4	346.4	345.9
120°	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9	371.9	370.9	370.6
122.5°	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8	396.2	395.5	395.0
125°	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6	430.3	430.1	429.6
127.5°	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4	464.0	463.6	463.1
130°	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7	484.3	483.8	483.3
132.5°	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2	503.7	503.2	502.8
135°	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5	533.1	532.7	532.3
137.5°	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6	559.0	558.5	558.2
140°	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2	575.7	575.2	574.9
142.5°	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9	591.5	591.2	590.8
145°	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9	613.6	613.4	613.1
147.5°	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6	633.3	633.1	632.8
150°	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5	645.4	645.1	644.9
152.5°	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3	655.8	655.4	655.3
155°	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0	670.4	669.9	669.7
157.5°	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8	683.2	682.4	682.5
160°	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2	690.4	689.8	689.8
162.5°	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8	697.0	696.2	696.3
165°	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7	705.8	704.7	704.9
167.5°	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6	712.7	711.6	711.6
170°	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5	716.5	715.5	715.5
172.5°	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0	719.1	718.1	718.0
175°	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1	722.3	721.4	721.3
177.5°	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2	723.5	722.7	722.6
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



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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°	8.5	8.3	7.4	6.5	5.9	5.2	4.9	4.3	4.2	4.4	4.5
90°	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6	1.7	2.9	4.1
92.5°	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0	9.7	9.3	9.0
95°	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8	27.9	23.0	18.1
97.5°	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9	63.7	61.5	59.3
100°	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9	93.2	95.7	98.0
102.5°	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2	120.9	122.7	124.4
105°	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2	161.6	162.9	164.1
107.5°	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4	204.4	205.6	206.6
110°	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2	233.2	234.1	235.1





TEST NUMBER: P331874-830

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8	260.6	261.5	262.3
115°	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5	301.2	301.9	302.7
117.5°	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0	340.8	341.8	342.6
120°	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5	365.5	366.6	367.7
122.5°	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5	390.3	391.2	392.1
125°	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6	424.6	425.6	426.5
127.5°	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8	457.7	458.6	459.6
130°	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4	478.3	479.3	480.2
132.5°	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2	498.1	499.1	500.0
135°	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4	528.1	528.8	529.5
137.5°	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2	554.1	555.0	555.9
140°	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3	571.1	571.8	572.5
142.5°	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3	587.0	587.8	588.4
145°	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5	609.4	610.2	611.1
147.5°	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5	630.1	630.7	631.1
150°	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4	642.8	643.1	643.5
152.5°	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0	654.2	654.3	654.5
155°	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3	670.1	669.9	669.7
157.5°	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1	683.1	683.0	683.0
160°	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8	690.7	690.6	690.4
162.5°	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1	697.8	697.5	697.2
165°	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9	706.5	706.2	705.9
167.5°	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8	713.3	712.8	712.4
170°	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7	717.2	716.7	716.2
172.5°	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3	719.7	719.1	718.5
175°	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6	723.0	722.4	721.8
177.5°	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4	724.0	723.5	723.0
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P331874-830

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

**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°	4.6	5.0	5.2	5.7	5.7	6.3	6.4	6.1	6.2	6.8	6.2
90°	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9	14.3	14.8	15.2
92.5°	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3	16.0	16.8	17.2
95°	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4	19.1	20.0	20.5
97.5°	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2	20.2	21.1	21.7
100°	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6	20.6	21.6	22.1
102.5°	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4	26.5	23.6	22.1
105°	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4	54.3	33.2	22.7
107.5°	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7	169.3	153.7	138.1
110°	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6	230.6	226.7	216.1



TEST NUMBER: P331874-830

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7	269.8	269.8	268.1
115°	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9	312.2	313.4	314.1
117.5°	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4	349.3	350.2	350.8
120°	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9	373.8	374.8	375.2
122.5°	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8	397.5	398.1	398.5
125°	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6	430.7	431.0	431.3
127.5°	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4	464.8	465.1	465.2
130°	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7	485.2	485.7	485.9
132.5°	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2	504.6	505.1	505.2
135°	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5	533.9	534.1	534.1
137.5°	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6	560.2	560.7	560.9
140°	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2	576.6	577.1	577.2
142.5°	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9	592.3	592.7	592.7
145°	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9	614.1	614.3	614.4
147.5°	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6	633.8	634.0	633.9
150°	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5	645.8	646.0	646.0
152.5°	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3	656.7	657.1	657.0
155°	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0	671.7	672.2	672.1
157.5°	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8	684.6	685.3	685.1
160°	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2	691.8	692.6	692.5
162.5°	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8	698.6	699.5	699.5
165°	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7	707.7	708.6	708.7
167.5°	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6	714.5	715.5	715.5
170°	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5	718.4	719.3	719.3
172.5°	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0	721.0	721.9	721.9
175°	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1	724.0	724.8	724.7
177.5°	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2	725.0	725.8	725.7
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P331874-830

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

**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°	6.2	6.3	6.1	6.0	6.1	6.3	6.2	6.2	6.8	6.2	6.1
90°	15.5	15.6	15.9	16.1	15.9	15.6	15.5	15.2	14.8	14.3	13.9
92.5°	17.4	17.5	17.7	17.8	17.7	17.5	17.4	17.2	16.8	16.0	15.3
95°	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.0	19.1	18.4
97.5°	21.8	21.9	22.1	22.1	22.1	21.9	21.8	21.7	21.1	20.2	19.2
100°	22.2	22.3	22.4	22.6	22.4	22.3	22.2	22.1	21.6	20.6	19.6
102.5°	22.3	22.6	22.8	23.0	22.8	22.6	22.3	22.1	23.6	26.5	29.4
105°	22.9	23.2	23.4	23.7	23.4	23.2	22.9	22.7	33.2	54.3	75.4
107.5°	122.1	106.1	90.2	74.3	90.2	106.1	122.1	138.1	153.7	169.3	184.7
110°	199.1	182.0	164.9	147.8	164.9	182.0	199.1	216.1	226.7	230.6	234.6



TEST NUMBER: P331874-830

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	264.5	260.8	257.2	253.6	257.2	260.8	264.5	268.1	269.8	269.8	269.7
115°	314.6	315.2	315.7	316.1	315.7	315.2	314.6	314.1	313.4	312.2	310.9
117.5°	350.9	351.0	351.1	351.2	351.1	351.0	350.9	350.8	350.2	349.3	348.4
120°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	374.8	373.8	372.9
122.5°	398.6	398.7	398.8	398.9	398.8	398.7	398.6	398.5	398.1	397.5	396.8
125°	431.5	431.8	432.0	432.3	432.0	431.8	431.5	431.3	431.0	430.7	430.6
127.5°	465.0	464.8	464.5	464.3	464.5	464.8	465.0	465.2	465.1	464.8	464.4
130°	485.6	485.4	485.1	484.9	485.1	485.4	485.6	485.9	485.7	485.2	484.7
132.5°	504.8	504.4	504.2	503.8	504.2	504.4	504.8	505.2	505.1	504.6	504.2
135°	533.9	533.5	533.1	532.7	533.1	533.5	533.9	534.1	534.1	533.9	533.5
137.5°	560.6	560.4	560.2	560.0	560.2	560.4	560.6	560.9	560.7	560.2	559.6
140°	577.0	576.7	576.6	576.3	576.6	576.7	577.0	577.2	577.1	576.6	576.2
142.5°	592.4	592.0	591.6	591.4	591.6	592.0	592.4	592.7	592.7	592.3	591.9
145°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.3	614.1	613.9
147.5°	633.3	632.7	632.3	631.7	632.3	632.7	633.3	633.9	634.0	633.8	633.6
150°	645.6	645.3	644.9	644.6	644.9	645.3	645.6	646.0	646.0	645.8	645.5
152.5°	656.6	656.0	655.4	654.9	655.4	656.0	656.6	657.0	657.1	656.7	656.3
155°	671.5	670.7	670.1	669.3	670.1	670.7	671.5	672.1	672.2	671.7	671.0
157.5°	684.2	683.3	682.4	681.5	682.4	683.3	684.2	685.1	685.3	684.6	683.8
160°	691.7	690.9	690.0	689.2	690.0	690.9	691.7	692.5	692.6	691.8	691.2
162.5°	698.7	698.0	697.2	696.5	697.2	698.0	698.7	699.5	699.5	698.6	697.8
165°	707.8	707.0	706.2	705.3	706.2	707.0	707.8	708.7	708.6	707.7	706.7
167.5°	714.5	713.6	712.7	711.6	712.7	713.6	714.5	715.5	715.5	714.5	713.6
170°	718.4	717.5	716.5	715.5	716.5	717.5	718.4	719.3	719.3	718.4	717.5
172.5°	720.9	719.8	718.7	717.7	718.7	719.8	720.9	721.9	721.9	721.0	720.0
175°	723.8	722.8	721.9	720.9	721.9	722.8	723.8	724.7	724.8	724.0	723.1
177.5°	724.7	723.8	722.8	721.9	722.8	723.8	724.7	725.7	725.8	725.0	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P331874-830

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

**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°	6.4	6.3	5.7	5.7	5.2	5.0	4.6	4.5	4.4	4.2	4.3
90°	13.4	12.9	11.3	9.8	8.2	6.7	5.3	4.1	2.9	1.7	0.6
92.5°	14.5	13.8	12.6	11.4	10.3	9.0	8.7	9.0	9.3	9.7	10.0
95°	17.5	16.7	15.4	14.0	12.7	11.4	13.2	18.1	23.0	27.9	32.8
97.5°	18.3	17.3	25.9	34.5	43.1	51.7	57.1	59.3	61.5	63.7	65.9
100°	18.7	17.7	36.4	55.0	73.6	92.3	100.4	98.0	95.7	93.2	90.9
102.5°	32.4	35.3	55.7	76.1	96.4	116.8	126.1	124.4	122.7	120.9	119.2
105°	96.6	117.7	128.5	139.2	150.0	160.7	165.4	164.1	162.9	161.6	160.2
107.5°	200.3	215.7	214.1	212.4	210.7	209.0	207.6	206.6	205.6	204.4	203.4
110°	238.5	242.4	241.1	239.8	238.5	237.2	236.0	235.1	234.1	233.2	232.2



TEST NUMBER: P331874-830

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	269.7	269.6	268.2	266.9	265.6	264.3	263.2	262.3	261.5	260.6	259.8
115°	309.8	308.6	307.5	306.4	305.4	304.3	303.4	302.7	301.9	301.2	300.5
117.5°	347.4	346.4	345.9	345.3	344.8	344.2	343.5	342.6	341.8	340.8	340.0
120°	371.9	370.9	370.6	370.2	369.9	369.5	368.8	367.7	366.6	365.5	364.5
122.5°	396.2	395.5	395.0	394.5	394.1	393.6	392.9	392.1	391.2	390.3	389.5
125°	430.3	430.1	429.6	429.1	428.7	428.2	427.4	426.5	425.6	424.6	423.6
127.5°	464.0	463.6	463.1	462.5	461.8	461.3	460.5	459.6	458.6	457.7	456.8
130°	484.3	483.8	483.3	482.9	482.4	481.9	481.2	480.2	479.3	478.3	477.4
132.5°	503.7	503.2	502.8	502.4	502.0	501.6	501.0	500.0	499.1	498.1	497.2
135°	533.1	532.7	532.3	531.8	531.3	530.8	530.3	529.5	528.8	528.1	527.4
137.5°	559.0	558.5	558.2	557.9	557.6	557.4	556.8	555.9	555.0	554.1	553.2
140°	575.7	575.2	574.9	574.5	574.1	573.8	573.3	572.5	571.8	571.1	570.3
142.5°	591.5	591.2	590.8	590.4	590.0	589.7	589.2	588.4	587.8	587.0	586.3
145°	613.6	613.4	613.1	612.9	612.7	612.5	611.9	611.1	610.2	609.4	608.5
147.5°	633.3	633.1	632.8	632.5	632.4	632.1	631.7	631.1	630.7	630.1	629.5
150°	645.4	645.1	644.9	644.6	644.4	644.1	643.9	643.5	643.1	642.8	642.4
152.5°	655.8	655.4	655.3	655.2	655.0	654.9	654.7	654.5	654.3	654.2	654.0
155°	670.4	669.9	669.7	669.6	669.5	669.4	669.4	669.7	669.9	670.1	670.3
157.5°	683.2	682.4	682.5	682.7	682.8	682.9	683.0	683.0	683.0	683.1	683.1
160°	690.4	689.8	689.8	689.9	690.0	690.2	690.3	690.4	690.6	690.7	690.8
162.5°	697.0	696.2	696.3	696.4	696.5	696.6	696.8	697.2	697.5	697.8	698.1
165°	705.8	704.7	704.9	705.0	705.1	705.2	705.5	705.9	706.2	706.5	706.9
167.5°	712.7	711.6	711.6	711.6	711.6	711.6	711.9	712.4	712.8	713.3	713.8
170°	716.5	715.5	715.5	715.5	715.5	715.5	715.8	716.2	716.7	717.2	717.7
172.5°	719.1	718.1	718.0	717.9	717.8	717.7	717.9	718.5	719.1	719.7	720.3
175°	722.3	721.4	721.3	721.2	721.0	721.0	721.2	721.8	722.4	723.0	723.6
177.5°	723.5	722.7	722.6	722.6	722.5	722.4	722.6	723.0	723.5	724.0	724.4
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



TEST NUMBER: P331874-830

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

**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°	4.9	5.2	5.9	6.5	7.4	8.3	8.5	8.4	8.6	8.5	8.4
90°	1.7	2.9	4.1	5.3	6.7	8.2	9.8	11.3	12.9	13.4	13.9
92.5°	9.7	9.3	9.0	8.7	9.0	10.3	11.4	12.6	13.8	14.5	15.3
95°	27.9	23.0	18.1	13.2	11.4	12.7	14.0	15.4	16.7	17.5	18.4
97.5°	63.7	61.5	59.3	57.1	51.7	43.1	34.5	25.9	17.3	18.3	19.2
100°	93.2	95.7	98.0	100.4	92.3	73.6	55.0	36.4	17.7	18.7	19.6
102.5°	120.9	122.7	124.4	126.1	116.8	96.4	76.1	55.7	35.3	32.4	29.4
105°	161.6	162.9	164.1	165.4	160.7	150.0	139.2	128.5	117.7	96.6	75.4
107.5°	204.4	205.6	206.6	207.6	209.0	210.7	212.4	214.1	215.7	200.3	184.7
110°	233.2	234.1	235.1	236.0	237.2	238.5	239.8	241.1	242.4	238.5	234.6





TEST NUMBER: P331874-830

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.6	261.5	262.3	263.2	264.3	265.6	266.9	268.2	269.6	269.7	269.7
115°	301.2	301.9	302.7	303.4	304.3	305.4	306.4	307.5	308.6	309.8	310.9
117.5°	340.8	341.8	342.6	343.5	344.2	344.8	345.3	345.9	346.4	347.4	348.4
120°	365.5	366.6	367.7	368.8	369.5	369.9	370.2	370.6	370.9	371.9	372.9
122.5°	390.3	391.2	392.1	392.9	393.6	394.1	394.5	395.0	395.5	396.2	396.8
125°	424.6	425.6	426.5	427.4	428.2	428.7	429.1	429.6	430.1	430.3	430.6
127.5°	457.7	458.6	459.6	460.5	461.3	461.8	462.5	463.1	463.6	464.0	464.4
130°	478.3	479.3	480.2	481.2	481.9	482.4	482.9	483.3	483.8	484.3	484.7
132.5°	498.1	499.1	500.0	501.0	501.6	502.0	502.4	502.8	503.2	503.7	504.2
135°	528.1	528.8	529.5	530.3	530.8	531.3	531.8	532.3	532.7	533.1	533.5
137.5°	554.1	555.0	555.9	556.8	557.4	557.6	557.9	558.2	558.5	559.0	559.6
140°	571.1	571.8	572.5	573.3	573.8	574.1	574.5	574.9	575.2	575.7	576.2
142.5°	587.0	587.8	588.4	589.2	589.7	590.0	590.4	590.8	591.2	591.5	591.9
145°	609.4	610.2	611.1	611.9	612.5	612.7	612.9	613.1	613.4	613.6	613.9
147.5°	630.1	630.7	631.1	631.7	632.1	632.4	632.5	632.8	633.1	633.3	633.6
150°	642.8	643.1	643.5	643.9	644.1	644.4	644.6	644.9	645.1	645.4	645.5
152.5°	654.2	654.3	654.5	654.7	654.9	655.0	655.2	655.3	655.4	655.8	656.3
155°	670.1	669.9	669.7	669.4	669.4	669.5	669.6	669.7	669.9	670.4	671.0
157.5°	683.1	683.0	683.0	683.0	682.9	682.8	682.7	682.5	682.4	683.2	683.8
160°	690.7	690.6	690.4	690.3	690.2	690.0	689.9	689.8	689.8	690.4	691.2
162.5°	697.8	697.5	697.2	696.8	696.6	696.5	696.4	696.3	696.2	697.0	697.8
165°	706.5	706.2	705.9	705.5	705.2	705.1	705.0	704.9	704.7	705.8	706.7
167.5°	713.3	712.8	712.4	711.9	711.6	711.6	711.6	711.6	711.6	712.7	713.6
170°	717.2	716.7	716.2	715.8	715.5	715.5	715.5	715.5	715.5	716.5	717.5
172.5°	719.7	719.1	718.5	717.9	717.7	717.8	717.9	718.0	718.1	719.1	720.0
175°	723.0	722.4	721.8	721.2	721.0	721.0	721.2	721.3	721.4	722.3	723.1
177.5°	724.0	723.5	723.0	722.6	722.4	722.5	722.6	722.6	722.7	723.5	724.2
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6



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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°	8.3	8.2	8.1	8.4	8.2	8.1	8.5
90°	14.3	14.8	15.2	15.5	15.6	15.9	16.1
92.5°	16.0	16.8	17.2	17.4	17.5	17.7	17.8
95°	19.1	20.0	20.5	20.5	20.5	20.5	20.5
97.5°	20.2	21.1	21.7	21.8	21.9	22.1	22.1
100°	20.6	21.6	22.1	22.2	22.3	22.4	22.6
102.5°	26.5	23.6	22.1	22.3	22.6	22.8	23.0
105°	54.3	33.2	22.7	22.9	23.2	23.4	23.7
107.5°	169.3	153.7	138.1	122.1	106.1	90.2	74.3
110°	230.6	226.7	216.1	199.1	182.0	164.9	147.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	269.8	269.8	268.1	264.5	260.8	257.2	253.6
115°	312.2	313.4	314.1	314.6	315.2	315.7	316.1
117.5°	349.3	350.2	350.8	350.9	351.0	351.1	351.2
120°	373.8	374.8	375.2	375.2	375.2	375.2	375.2
122.5°	397.5	398.1	398.5	398.6	398.7	398.8	398.9
125°	430.7	431.0	431.3	431.5	431.8	432.0	432.3
127.5°	464.8	465.1	465.2	465.0	464.8	464.5	464.3
130°	485.2	485.7	485.9	485.6	485.4	485.1	484.9
132.5°	504.6	505.1	505.2	504.8	504.4	504.2	503.8
135°	533.9	534.1	534.1	533.9	533.5	533.1	532.7
137.5°	560.2	560.7	560.9	560.6	560.4	560.2	560.0
140°	576.6	577.1	577.2	577.0	576.7	576.6	576.3
142.5°	592.3	592.7	592.7	592.4	592.0	591.6	591.4
145°	614.1	614.3	614.4	614.4	614.4	614.4	614.4
147.5°	633.8	634.0	633.9	633.3	632.7	632.3	631.7
150°	645.8	646.0	646.0	645.6	645.3	644.9	644.6
152.5°	656.7	657.1	657.0	656.6	656.0	655.4	654.9
155°	671.7	672.2	672.1	671.5	670.7	670.1	669.3
157.5°	684.6	685.3	685.1	684.2	683.3	682.4	681.5
160°	691.8	692.6	692.5	691.7	690.9	690.0	689.2
162.5°	698.6	699.5	699.5	698.7	698.0	697.2	696.5
165°	707.7	708.6	708.7	707.8	707.0	706.2	705.3
167.5°	714.5	715.5	715.5	714.5	713.6	712.7	711.6
170°	718.4	719.3	719.3	718.4	717.5	716.5	715.5
172.5°	721.0	721.9	721.9	720.9	719.8	718.7	717.7
175°	724.0	724.8	724.7	723.8	722.8	721.9	720.9
177.5°	725.0	725.8	725.7	724.7	723.8	722.8	721.9
180°	723.6	723.6	723.6	723.6	723.6	723.6	723.6

(END OF REPORT)