

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

Luminaire Tested: **S123DIP-S340D585U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331876  
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-S340D585U835-4F0-1E-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: 3573.3 lumens  
Efficiency: N/A  
Efficacy: 139.6 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

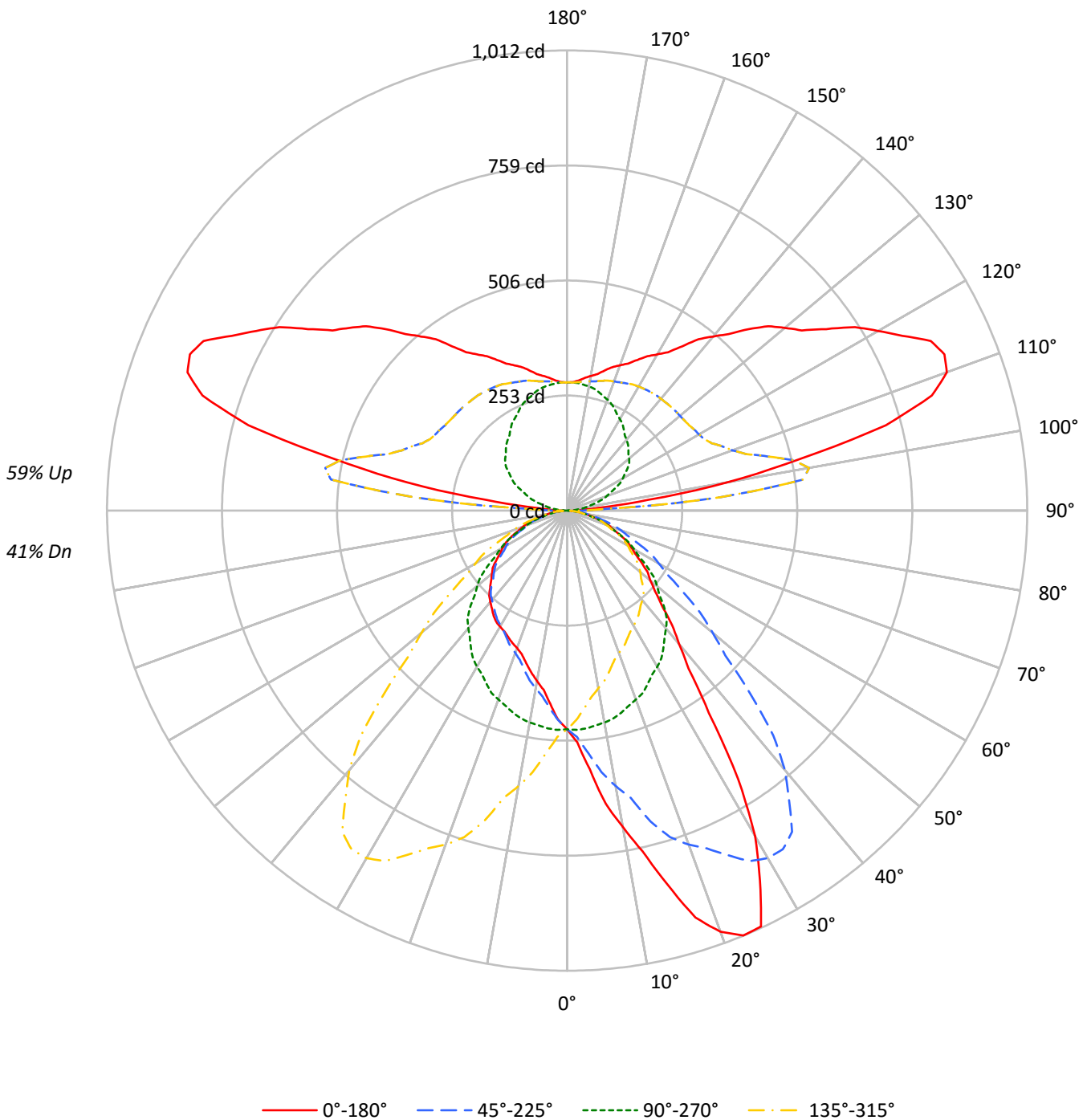
Input Watts (W): 25.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20										
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	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°	5175	5175	5175	5175
5°	6172	5198	4606	5198
10°	7725	5172	4161	5172
15°	9475	5129	3874	5129
20°	11287	5065	3688	5065
25°	11986	4986	3646	4986
30°	10274	4928	3665	4928
35°	7144	4846	3704	4846
40°	5382	4749	3693	4749
45°	4468	4606	3646	4606
50°	4002	4315	3612	4315
55°	3742	4001	3567	4001
60°	3511	3670	3531	3670
65°	3298	3347	3418	3347
70°	3094	2977	3254	2977
75°	2770	2608	2986	2608
80°	2424	2139	2572	2139
85°	1902	1556	1729	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.3
10°-20°	151.9	4.3
20°-30°	254.9	7.1
30°-40°	288.6	8.1
40°-50°	258.8	7.2
50°-60°	208.9	5.8
60°-70°	145.6	4.1
70°-80°	76.5	2.1
80°-90°	20.9	0.6
90°-100°	156.8	4.4
100°-110°	444.0	12.4
110°-120°	436.8	12.2
120°-130°	348.4	9.7
130°-140°	274.7	7.7
140°-150°	205.0	5.7
150°-160°	142.9	4.0
160°-170°	83.9	2.3
170°-180°	27.3	0.8
0°-30°	454.2	12.7
0°-40°	742.8	20.8
0°-60°	1210.5	33.9
0°-90°	1453.4	40.7
90°-120°	1037.6	29.0
90°-150°	1865.7	52.2
90°-180°	2120.0	59.3
0°-180°	3573.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	481	481	481	481	481	
5°	571	481	426	481	571	59
15°	850	460	348	460	850	246
25°	1009	420	307	420	1009	443
35°	544	369	282	369	544	353
45°	294	303	240	303	294	232
55°	199	213	190	213	199	179
65°	130	131	134	131	130	129
75°	67	63	72	63	67	71
85°	15	13	14	13	15	19
90°	16	1	16	1	16	10
95°	66	19	66	19	66	119
105°	726	66	726	66	726	716
115°	882	117	882	117	882	857
125°	696	163	696	163	696	631
135°	564	190	564	190	564	438
145°	441	217	441	217	441	280
155°	366	247	366	247	366	171
165°	319	270	319	270	319	91
175°	287	281	287	281	287	28
180°	282	282	282	282	282	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	510.3	509.9	509.0	509.7	508.2	506.2	506.0	504.1	498.7	498.4	496.9
5°	571.2	569.4	569.1	568.9	565.6	561.2	552.8	552.1	540.9	535.4	528.6
7.5°	650.2	651.1	647.7	644.8	634.8	628.2	619.2	607.7	594.0	580.0	570.8
10°	706.8	714.5	705.0	698.4	692.4	681.0	667.7	651.1	634.6	615.3	600.6
12.5°	767.6	771.3	769.4	763.3	753.9	736.5	713.0	694.7	679.5	647.3	634.3
15°	850.3	864.5	855.4	834.5	834.9	818.4	787.7	753.9	735.9	707.7	669.3
17.5°	938.5	940.2	936.4	918.9	907.3	884.5	856.1	823.8	787.4	753.3	712.5
20°	985.4	984.0	975.9	966.8	946.8	929.1	898.1	862.0	815.4	781.8	737.3
22.5°	1011.5	1009.2	1005.3	997.7	981.1	962.1	934.2	894.8	850.4	804.2	752.8
25°	1009.2	1012.2	1012.7	1010.6	1004.8	993.4	971.5	940.0	895.8	836.3	782.8
27.5°	917.9	922.2	934.6	945.7	958.0	970.6	968.9	953.3	920.5	869.2	803.7
30°	826.6	817.2	840.3	869.4	889.2	924.2	943.7	944.9	926.5	882.5	818.6
32.5°	699.8	710.1	720.3	756.1	799.4	838.6	877.6	908.9	912.5	883.2	827.4
35°	543.7	556.6	575.2	593.8	640.4	680.5	749.0	808.6	856.1	862.4	828.2
37.5°	438.2	444.5	456.3	475.0	505.4	553.0	605.9	681.3	750.2	801.4	803.6
40°	383.0	384.9	398.1	412.3	437.0	476.2	523.9	590.6	673.0	744.6	774.4
42.5°	341.6	345.7	351.4	365.0	384.7	414.1	458.5	513.6	589.2	671.5	729.8
45°	293.5	298.2	301.7	310.8	324.8	344.6	375.5	425.9	483.4	568.4	646.9
47.5°	261.8	262.1	264.7	271.6	281.1	296.0	317.9	350.2	403.0	472.0	552.6
50°	239.0	242.7	243.7	249.0	256.5	267.4	285.6	313.1	356.4	417.0	491.1
52.5°	223.0	224.1	226.7	230.6	237.1	245.6	261.4	282.9	316.9	368.6	436.7
55°	199.4	199.4	202.0	205.0	208.7	216.4	226.9	242.7	268.6	308.7	365.1
57.5°	177.6	178.8	180.6	181.5	184.7	189.8	198.5	210.6	229.8	260.7	305.5
60°	163.1	165.2	164.9	166.8	169.6	173.6	181.0	190.8	208.0	232.7	270.5
62.5°	150.4	150.3	150.2	152.5	155.2	159.0	163.9	172.3	187.0	208.9	241.0
65°	129.5	129.1	130.7	132.1	133.0	135.8	139.5	147.0	156.8	173.1	198.0
67.5°	111.0	109.6	110.5	111.0	112.6	114.8	118.3	122.9	130.6	143.7	162.5
70°	98.3	97.1	96.9	97.4	98.8	100.4	103.0	107.4	114.6	125.1	138.8
72.5°	85.3	84.5	84.4	85.5	86.1	87.2	89.0	93.0	98.8	106.7	119.5
75°	66.6	66.6	66.6	66.9	67.6	68.5	69.9	72.0	76.4	82.0	90.6
77.5°	49.9	49.9	49.6	49.6	50.6	51.0	51.3	53.3	55.8	59.5	65.8
80°	39.1	38.0	38.4	39.1	39.6	39.8	40.5	41.0	43.1	45.2	49.6
82.5°	29.1	28.1	28.2	29.3	29.4	29.6	30.3	30.9	31.7	33.6	36.0
85°	15.4	15.4	15.6	15.6	15.8	15.6	16.3	16.5	16.5	17.7	19.1
87.5°	8.9	8.6	8.7	8.8	8.7	8.7	8.7	8.8	8.9	9.2	9.0
90°	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3	13.7	14.3	12.5
92.5°	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0	66.2	87.7	96.5
95°	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3	274.3	338.2	301.2
97.5°	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9	560.8	524.2	383.7
100°	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5	652.5	540.1	365.0
102.5°	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9	657.1	510.5	337.7
105°	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5	622.3	458.6	304.0
107.5°	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5	561.4	412.7	282.6
110°	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6	523.0	386.7	274.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2	489.7	369.4	269.8
115°	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0	449.5	350.8	268.1
117.5°	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2	425.2	339.8	269.1
120°	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8	412.4	334.8	270.9
122.5°	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9	401.9	331.6	274.1
125°	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4	388.4	327.4	278.9
127.5°	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8	376.6	325.3	284.4
130°	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5	370.2	324.0	288.0
132.5°	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1	364.2	323.5	290.8
135°	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7	356.5	322.8	294.9
137.5°	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7	349.8	321.6	297.6
140°	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5	345.6	321.1	299.4
142.5°	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7	342.0	320.2	300.8
145°	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3	337.1	318.8	301.7
147.5°	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7	332.3	316.7	301.7
150°	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2	329.1	314.8	301.7
152.5°	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2	325.5	312.6	300.4
155°	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7	320.0	308.6	298.9
157.5°	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7	313.8	305.0	296.9
160°	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1	309.7	302.3	296.0
162.5°	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7	305.6	299.6	294.2
165°	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6	300.0	295.5	291.5
167.5°	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4	294.7	291.3	288.7
170°	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3	291.5	288.6	286.9
172.5°	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7	288.3	286.3	285.5
175°	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8	284.6	283.5	283.5
177.5°	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7	282.2	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	495.7	494.3	492.8	490.2	487.9	484.8	483.8	482.7	479.3	476.4	474.1
5°	526.0	520.4	512.3	504.8	498.8	490.6	486.0	481.1	474.1	467.8	462.7
7.5°	557.7	546.7	534.0	520.4	507.6	495.3	485.4	476.5	466.7	457.5	450.2
10°	582.9	567.0	549.3	530.2	513.9	498.1	484.8	473.2	460.6	449.6	440.5
12.5°	611.6	588.1	563.7	540.5	521.2	499.2	483.1	468.3	454.0	440.9	430.7
15°	645.5	615.7	586.8	554.9	525.6	498.1	479.0	460.3	443.8	430.3	417.2
17.5°	676.5	642.7	604.6	565.8	530.4	497.8	471.1	450.0	429.3	412.8	399.8
20°	694.0	655.6	612.5	572.2	533.0	496.7	467.3	442.2	419.8	402.3	387.7
22.5°	709.1	664.1	619.5	576.4	532.8	493.7	460.4	434.5	410.3	393.2	377.6
25°	724.8	670.9	626.2	575.7	527.0	486.4	449.2	419.8	395.6	375.5	359.5
27.5°	738.2	670.5	617.4	563.0	517.7	477.1	437.3	405.8	380.1	358.3	342.0
30°	747.1	671.4	608.3	554.5	508.8	466.9	428.2	396.5	369.5	347.4	332.0
32.5°	752.7	670.8	599.9	542.5	494.6	457.5	418.3	385.5	357.7	336.0	321.2
35°	756.0	666.7	585.4	517.9	471.8	435.6	402.8	368.8	339.7	319.4	302.6
37.5°	749.4	658.1	568.7	494.1	443.6	408.1	380.4	351.5	323.6	301.3	286.8
40°	739.2	652.5	555.6	477.3	424.2	390.0	366.5	338.0	310.5	289.3	275.8
42.5°	719.6	641.2	541.3	458.7	404.1	369.9	348.2	324.4	298.4	278.5	265.0
45°	671.9	616.4	519.7	430.8	374.4	339.0	319.9	302.6	279.1	259.8	248.1
47.5°	605.6	579.2	488.6	401.3	343.3	309.3	289.4	275.6	258.4	242.7	231.6
50°	559.6	548.6	467.6	381.1	322.7	289.3	270.2	257.7	245.3	229.7	219.5
52.5°	506.5	513.2	443.0	360.3	301.6	268.8	250.9	240.9	229.7	216.8	207.9
55°	431.7	456.1	400.5	325.2	270.2	239.0	222.0	213.2	206.6	197.1	189.4
57.5°	361.7	392.8	354.5	289.1	239.4	212.5	196.2	186.6	182.4	177.4	171.3
60°	320.1	350.8	321.7	264.9	218.8	193.1	178.7	170.5	166.3	162.8	157.7
62.5°	283.0	314.1	289.7	240.3	198.4	174.7	162.1	154.1	150.9	149.1	144.7
65°	232.0	258.8	242.5	202.0	169.4	148.4	137.0	131.4	128.4	127.7	124.9
67.5°	188.8	209.2	197.4	167.5	141.9	123.8	114.1	109.3	107.0	106.7	104.6
70°	160.5	179.6	170.5	143.5	121.4	107.2	98.8	94.6	93.2	93.0	91.8
72.5°	138.5	151.8	144.6	122.1	105.0	92.1	85.9	81.5	80.0	80.3	79.5
75°	102.5	112.5	108.3	92.7	79.0	70.6	65.5	62.7	61.3	62.0	61.0
77.5°	73.8	80.1	76.3	65.5	57.0	51.0	47.2	45.5	44.2	44.2	43.8
80°	55.7	59.4	57.3	50.8	43.8	38.7	35.6	34.5	33.8	33.5	33.3
82.5°	39.7	42.8	40.3	35.9	31.1	28.0	26.3	24.8	24.3	24.4	24.2
85°	20.0	21.2	20.3	17.5	15.6	14.2	13.3	12.6	12.1	12.3	11.9
87.5°	9.1	8.9	8.0	7.0	6.4	5.5	5.3	4.7	4.6	4.8	4.9
90°	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1	2.3	3.4	5.1
92.5°	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1	10.5	15.3	19.7
95°	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4	21.1	27.4	37.1
97.5°	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1	33.7	38.6	47.0
100°	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2	42.8	46.8	54.8
102.5°	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8	52.8	56.4	63.9
105°	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2	67.9	71.3	78.1
107.5°	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4	83.2	86.5	93.2
110°	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4	94.1	97.0	103.2





TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4	104.2	107.0	113.3
115°	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9	119.2	122.6	128.3
117.5°	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4	134.0	136.9	142.1
120°	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5	143.2	146.0	151.7
122.5°	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1	151.8	154.7	160.8
125°	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6	163.7	167.1	173.4
127.5°	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0	173.7	178.0	184.3
130°	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0	179.7	184.8	191.6
132.5°	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5	184.7	190.3	198.5
135°	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5	192.8	199.1	207.6
137.5°	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0	200.4	206.6	215.7
140°	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1	205.9	211.6	220.7
142.5°	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5	210.9	217.1	225.3
145°	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3	219.0	224.2	232.7
147.5°	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2	227.2	232.3	239.7
150°	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1	232.7	237.3	244.7
152.5°	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1	238.2	242.8	249.3
155°	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0	247.0	250.4	256.1
157.5°	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0	254.5	257.2	262.3
160°	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5	259.5	261.8	266.4
162.5°	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6	263.6	265.5	269.1
165°	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8	269.2	270.4	273.2
167.5°	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5	273.8	274.3	276.5
170°	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2	276.1	276.6	278.3
172.5°	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0	278.3	278.5	279.7
175°	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2	280.6	280.1	281.2
177.5°	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2	281.8	281.3	281.8
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	472.8	471.5	469.7	466.9	464.6	461.1	461.1	461.6	461.6	461.5	461.1
5°	458.5	455.0	450.8	445.9	440.8	435.6	434.7	432.8	431.5	430.5	429.4
7.5°	443.3	437.1	431.0	424.2	417.9	412.8	409.2	406.2	404.3	402.2	400.7
10°	433.1	425.4	418.2	411.0	403.0	396.7	392.8	390.0	387.9	386.0	385.1
12.5°	421.0	412.2	404.2	397.3	388.7	382.2	378.4	377.1	374.7	370.7	368.7
15°	403.3	395.1	385.6	375.1	370.9	363.0	358.5	356.4	355.0	352.0	351.1
17.5°	388.1	377.5	366.7	358.9	351.1	344.7	342.2	339.6	337.8	335.3	334.5
20°	376.0	366.5	356.7	348.3	340.1	333.1	331.0	329.2	327.3	326.2	325.2
22.5°	363.7	354.2	346.0	338.2	329.5	324.9	322.7	320.6	319.3	318.5	317.6
25°	346.4	338.0	328.9	322.0	315.0	311.9	310.5	309.4	308.4	307.3	307.0
27.5°	331.0	321.8	314.5	307.9	302.9	300.4	299.0	298.5	298.7	299.1	299.4
30°	319.4	311.0	305.0	299.4	294.7	292.4	292.1	292.1	293.1	293.3	293.8
32.5°	308.8	301.9	295.8	290.4	286.9	285.3	286.2	286.2	286.9	287.5	288.4
35°	293.3	287.2	282.6	277.9	274.9	275.6	276.1	276.5	277.7	279.1	280.0
37.5°	278.5	273.3	268.4	264.8	263.4	264.6	265.8	266.7	268.1	269.2	270.1
40°	267.9	263.9	259.3	256.0	256.5	257.2	258.1	259.3	260.5	261.2	262.1
42.5°	258.0	253.9	250.3	247.6	248.3	249.2	249.7	250.3	251.7	253.0	253.5
45°	243.0	239.7	236.5	234.8	235.3	235.8	236.2	236.9	238.1	239.0	239.3
47.5°	226.1	223.8	221.6	220.0	220.8	220.6	221.2	222.7	223.0	223.6	224.9
50°	215.3	213.2	210.6	210.1	210.1	210.1	210.4	212.2	212.2	213.2	214.1
52.5°	203.3	202.0	200.4	199.5	199.1	199.1	200.1	201.0	201.4	202.7	203.7
55°	185.7	184.3	182.9	182.2	181.7	182.2	184.0	184.5	185.7	186.4	187.1
57.5°	167.3	166.2	165.1	164.7	164.6	165.2	166.2	167.6	167.9	170.1	171.1
60°	155.2	153.5	152.6	152.6	152.1	154.2	153.8	156.1	156.6	158.0	159.6
62.5°	142.7	140.5	140.1	140.1	140.8	141.4	142.0	143.0	144.3	146.0	147.3
65°	122.5	121.4	123.0	122.8	122.3	123.7	123.7	124.9	126.3	127.9	130.5
67.5°	103.5	102.9	103.0	103.0	103.7	104.5	105.2	106.2	107.9	109.6	111.3
70°	90.6	91.3	90.2	91.1	91.8	92.0	92.5	93.9	95.7	96.9	98.8
72.5°	78.1	78.1	78.2	78.6	79.3	79.7	80.2	81.8	83.8	84.8	86.3
75°	60.1	59.9	60.6	60.6	61.7	62.2	62.7	63.4	65.2	66.6	67.8
77.5°	43.9	44.2	44.0	44.8	44.5	44.6	46.0	46.7	46.9	49.7	50.3
80°	33.1	33.5	33.8	34.0	34.2	33.8	35.4	36.1	36.1	37.7	38.9
82.5°	23.8	24.0	24.6	24.9	24.9	25.4	25.5	26.0	26.6	27.3	28.8
85°	11.9	12.6	12.8	12.6	12.8	12.3	13.0	13.3	13.5	13.5	13.5
87.5°	5.0	5.4	5.6	6.1	6.2	6.8	6.7	6.4	6.5	7.2	6.7
90°	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3	14.8	15.4	16.5
92.5°	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0	38.1	33.7	30.7
95°	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3	139.2	108.9	88.4
97.5°	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9	410.0	336.4	268.2
100°	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5	626.3	559.5	478.5
102.5°	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9	724.4	685.5	634.1
105°	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5	798.5	809.4	794.5
107.5°	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5	789.2	839.1	859.4
110°	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6	758.6	830.5	870.4



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2	718.4	799.0	850.3
115°	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0	654.2	738.1	800.2
117.5°	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2	599.9	675.2	738.3
120°	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8	569.8	638.2	695.9
122.5°	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9	545.6	609.0	662.5
125°	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4	515.6	570.4	616.0
127.5°	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8	489.3	538.7	580.2
130°	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5	472.8	519.0	557.8
132.5°	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1	457.3	500.3	537.3
135°	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7	435.2	472.3	504.8
137.5°	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7	413.9	445.8	474.0
140°	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5	401.5	428.9	453.4
142.5°	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7	389.7	413.4	434.7
145°	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3	374.2	392.4	409.0
147.5°	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7	362.6	377.4	389.1
150°	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2	355.3	367.3	378.2
152.5°	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2	348.5	359.1	368.1
155°	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7	338.8	347.4	354.2
157.5°	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7	329.3	336.0	341.3
160°	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1	323.4	329.1	333.1
162.5°	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7	317.0	322.3	325.8
165°	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6	308.0	312.0	314.8
167.5°	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4	301.0	303.3	305.4
170°	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3	296.0	298.3	299.4
172.5°	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7	291.9	293.7	294.4
175°	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8	286.3	287.5	287.5
177.5°	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7	283.1	283.6	283.6
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	459.8	459.6	460.9	460.0	460.9	459.6	459.8	461.1	461.5	461.6	461.6
5°	428.0	428.7	426.3	426.3	426.3	428.7	428.0	429.4	430.5	431.5	432.8
7.5°	399.6	398.6	398.7	397.4	398.7	398.6	399.6	400.7	402.2	404.3	406.2
10°	382.3	380.9	380.4	380.7	380.4	380.9	382.3	385.1	386.0	387.9	390.0
12.5°	367.9	367.7	364.6	364.6	364.6	367.7	367.9	368.7	370.7	374.7	377.1
15°	351.1	346.7	346.2	347.6	346.2	346.7	351.1	351.1	352.0	355.0	356.4
17.5°	334.2	331.8	332.0	331.3	332.0	331.8	334.2	334.5	335.3	337.8	339.6
20°	325.2	323.8	323.6	322.0	323.6	323.8	325.2	325.2	326.2	327.3	329.2
22.5°	317.0	316.6	316.7	314.9	316.7	316.6	317.0	317.6	318.5	319.3	320.6
25°	306.8	308.0	307.0	307.0	307.0	308.0	306.8	307.0	307.3	308.4	309.4
27.5°	299.9	299.9	299.4	299.4	299.4	299.9	299.9	299.4	299.1	298.7	298.5
30°	294.7	294.5	294.9	294.9	294.9	294.5	294.7	293.8	293.3	293.1	292.1
32.5°	289.5	289.8	289.9	290.1	289.9	289.8	289.5	288.4	287.5	286.9	286.2
35°	281.4	281.7	282.4	281.9	282.4	281.7	281.4	280.0	279.1	277.7	276.5
37.5°	270.5	271.6	271.4	271.7	271.4	271.6	270.5	270.1	269.2	268.1	266.7
40°	262.3	263.0	262.8	262.8	262.8	263.0	262.3	262.1	261.2	260.5	259.3
42.5°	253.9	254.4	253.8	253.5	253.8	254.4	253.9	253.5	253.0	251.7	250.3
45°	240.2	239.7	240.4	239.5	240.4	239.7	240.2	239.3	239.0	238.1	236.9
47.5°	224.8	225.3	225.5	226.2	225.5	225.3	224.8	224.9	223.6	223.0	222.7
50°	214.6	216.0	216.0	215.7	216.0	216.0	214.6	214.1	213.2	212.2	212.2
52.5°	204.5	205.1	206.1	206.0	206.1	205.1	204.5	203.7	202.7	201.4	201.0
55°	188.9	189.4	189.9	190.1	189.9	189.4	188.9	187.1	186.4	185.7	184.5
57.5°	172.8	172.6	173.7	174.1	173.7	172.6	172.8	171.1	170.1	167.9	167.6
60°	161.4	161.4	163.3	164.0	163.3	161.4	161.4	159.6	158.0	156.6	156.1
62.5°	149.3	150.1	151.9	151.0	151.9	150.1	149.3	147.3	146.0	144.3	143.0
65°	131.6	133.5	133.3	134.2	133.3	133.5	131.6	130.5	127.9	126.3	124.9
67.5°	113.1	114.3	116.0	116.1	116.0	114.3	113.1	111.3	109.6	107.9	106.2
70°	100.6	101.8	102.7	103.4	102.7	101.8	100.6	98.8	96.9	95.7	93.9
72.5°	88.5	89.1	91.4	90.4	91.4	89.1	88.5	86.3	84.8	83.8	81.8
75°	69.4	71.1	72.5	71.8	72.5	71.1	69.4	67.8	66.6	65.2	63.4
77.5°	51.3	53.0	53.6	53.0	53.6	53.0	51.3	50.3	49.7	46.9	46.7
80°	40.5	40.3	41.7	41.5	41.7	40.3	40.5	38.9	37.7	36.1	36.1
82.5°	29.7	29.5	30.1	30.3	30.1	29.5	29.7	28.8	27.3	26.6	26.0
85°	14.4	15.1	14.2	14.0	14.2	15.1	14.4	13.5	13.5	13.5	13.3
87.5°	6.5	6.7	6.6	6.3	6.6	6.7	6.5	6.7	7.2	6.5	6.4
90°	16.0	16.5	17.1	16.5	17.1	16.5	16.0	16.5	15.4	14.8	14.3
92.5°	29.7	27.9	28.5	27.5	28.5	27.9	29.7	30.7	33.7	38.1	48.0
95°	77.6	72.4	68.4	66.2	68.4	72.4	77.6	88.4	108.9	139.2	205.3
97.5°	226.1	200.4	185.0	180.1	185.0	200.4	226.1	268.2	336.4	410.0	511.9
100°	420.9	379.3	357.1	357.6	357.1	379.3	420.9	478.5	559.5	626.3	672.5
102.5°	589.3	556.3	537.7	524.6	537.7	556.3	589.3	634.1	685.5	724.4	725.9
105°	768.3	746.6	728.4	725.5	728.4	746.6	768.3	794.5	809.4	798.5	741.5
107.5°	859.9	852.6	846.4	841.2	846.4	852.6	859.9	859.4	839.1	789.2	696.5
110°	886.4	890.9	889.8	888.6	889.8	890.9	886.4	870.4	830.5	758.6	653.6



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	879.5	893.7	898.0	898.2	898.0	893.7	879.5	850.3	799.0	718.4	611.2
115°	843.0	868.1	879.5	882.4	879.5	868.1	843.0	800.2	738.1	654.2	555.0
117.5°	782.9	811.6	828.1	831.9	828.1	811.6	782.9	738.3	675.2	599.9	514.2
120°	740.9	772.9	786.5	790.0	786.5	772.9	740.9	695.9	638.2	569.8	492.8
122.5°	702.6	731.3	746.4	750.7	746.4	731.3	702.6	662.5	609.0	545.6	475.9
125°	652.5	677.6	691.9	695.9	691.9	677.6	652.5	616.0	570.4	515.6	453.4
127.5°	612.7	634.1	647.0	650.7	647.0	634.1	612.7	580.2	538.7	489.3	433.8
130°	588.1	608.6	620.6	625.1	620.6	608.6	588.1	557.8	519.0	472.8	421.5
132.5°	565.7	586.2	596.8	600.0	596.8	586.2	565.7	537.3	500.3	457.3	410.1
135°	532.7	549.8	560.1	564.1	560.1	549.8	532.7	504.8	472.3	435.2	394.7
137.5°	497.5	514.8	523.5	526.1	523.5	514.8	497.5	474.0	445.8	413.9	380.7
140°	475.1	491.1	500.2	499.6	500.2	491.1	475.1	453.4	428.9	401.5	372.5
142.5°	453.2	467.4	475.6	475.0	475.6	467.4	453.2	434.7	413.4	389.7	364.7
145°	423.2	435.2	439.8	440.9	439.8	435.2	423.2	409.0	392.4	374.2	355.3
147.5°	399.9	408.0	412.4	412.8	412.4	408.0	399.9	389.1	377.4	362.6	347.7
150°	386.7	393.0	396.4	396.4	396.4	393.0	386.7	378.2	367.3	355.3	342.2
152.5°	374.8	380.7	382.7	382.7	382.7	380.7	374.8	368.1	359.1	348.5	337.2
155°	359.3	363.9	365.0	365.6	365.0	363.9	359.3	354.2	347.4	338.8	329.7
157.5°	345.8	349.2	350.1	350.0	350.1	349.2	345.8	341.3	336.0	329.3	321.7
160°	337.1	340.5	340.5	339.9	340.5	340.5	337.1	333.1	329.1	323.4	317.1
162.5°	328.4	331.4	331.4	330.8	331.4	331.4	328.4	325.8	322.3	317.0	311.7
165°	317.1	319.4	318.8	318.8	318.8	319.4	317.1	314.8	312.0	308.0	304.6
167.5°	306.4	308.0	307.4	307.4	307.4	308.0	306.4	305.4	303.3	301.0	298.4
170°	300.0	301.2	300.6	300.6	300.6	301.2	300.0	299.4	298.3	296.0	294.3
172.5°	294.5	295.7	294.7	294.2	294.7	295.7	294.5	294.4	293.7	291.9	290.7
175°	287.5	288.0	287.5	286.9	287.5	288.0	287.5	287.5	287.5	286.3	285.8
177.5°	283.1	283.6	282.7	282.7	282.7	283.6	283.1	283.6	283.6	283.1	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	461.1	461.1	464.6	466.9	469.7	471.5	472.8	474.1	476.4	479.3	482.7
5°	434.7	435.6	440.8	445.9	450.8	455.0	458.5	462.7	467.8	474.1	481.1
7.5°	409.2	412.8	417.9	424.2	431.0	437.1	443.3	450.2	457.5	466.7	476.5
10°	392.8	396.7	403.0	411.0	418.2	425.4	433.1	440.5	449.6	460.6	473.2
12.5°	378.4	382.2	388.7	397.3	404.2	412.2	421.0	430.7	440.9	454.0	468.3
15°	358.5	363.0	370.9	375.1	385.6	395.1	403.3	417.2	430.3	443.8	460.3
17.5°	342.2	344.7	351.1	358.9	366.7	377.5	388.1	399.8	412.8	429.3	450.0
20°	331.0	333.1	340.1	348.3	356.7	366.5	376.0	387.7	402.3	419.8	442.2
22.5°	322.7	324.9	329.5	338.2	346.0	354.2	363.7	377.6	393.2	410.3	434.5
25°	310.5	311.9	315.0	322.0	328.9	338.0	346.4	359.5	375.5	395.6	419.8
27.5°	299.0	300.4	302.9	307.9	314.5	321.8	331.0	342.0	358.3	380.1	405.8
30°	292.1	292.4	294.7	299.4	305.0	311.0	319.4	332.0	347.4	369.5	396.5
32.5°	286.2	285.3	286.9	290.4	295.8	301.9	308.8	321.2	336.0	357.7	385.5
35°	276.1	275.6	274.9	277.9	282.6	287.2	293.3	302.6	319.4	339.7	368.8
37.5°	265.8	264.6	263.4	264.8	268.4	273.3	278.5	286.8	301.3	323.6	351.5
40°	258.1	257.2	256.5	256.0	259.3	263.9	267.9	275.8	289.3	310.5	338.0
42.5°	249.7	249.2	248.3	247.6	250.3	253.9	258.0	265.0	278.5	298.4	324.4
45°	236.2	235.8	235.3	234.8	236.5	239.7	243.0	248.1	259.8	279.1	302.6
47.5°	221.2	220.6	220.8	220.0	221.6	223.8	226.1	231.6	242.7	258.4	275.6
50°	210.4	210.1	210.1	210.1	210.6	213.2	215.3	219.5	229.7	245.3	257.7
52.5°	200.1	199.1	199.1	199.5	200.4	202.0	203.3	207.9	216.8	229.7	240.9
55°	184.0	182.2	181.7	182.2	182.9	184.3	185.7	189.4	197.1	206.6	213.2
57.5°	166.2	165.2	164.6	164.7	165.1	166.2	167.3	171.3	177.4	182.4	186.6
60°	153.8	154.2	152.1	152.6	152.6	153.5	155.2	157.7	162.8	166.3	170.5
62.5°	142.0	141.4	140.8	140.1	140.1	140.5	142.7	144.7	149.1	150.9	154.1
65°	123.7	123.7	122.3	122.8	123.0	121.4	122.5	124.9	127.7	128.4	131.4
67.5°	105.2	104.5	103.7	103.0	103.0	102.9	103.5	104.6	106.7	107.0	109.3
70°	92.5	92.0	91.8	91.1	90.2	91.3	90.6	91.8	93.0	93.2	94.6
72.5°	80.2	79.7	79.3	78.6	78.2	78.1	78.1	79.5	80.3	80.0	81.5
75°	62.7	62.2	61.7	60.6	60.6	59.9	60.1	61.0	62.0	61.3	62.7
77.5°	46.0	44.6	44.5	44.8	44.0	44.2	43.9	43.8	44.2	44.2	45.5
80°	35.4	33.8	34.2	34.0	33.8	33.5	33.1	33.3	33.5	33.8	34.5
82.5°	25.5	25.4	24.9	24.9	24.6	24.0	23.8	24.2	24.4	24.3	24.8
85°	13.0	12.3	12.8	12.6	12.8	12.6	11.9	11.9	12.3	12.1	12.6
87.5°	6.7	6.8	6.2	6.1	5.6	5.4	5.0	4.9	4.8	4.6	4.7
90°	13.7	14.3	12.5	10.8	9.1	7.4	6.3	5.1	3.4	2.3	1.1
92.5°	66.2	87.7	96.5	72.4	47.9	33.0	24.5	19.7	15.3	10.5	7.1
95°	274.3	338.2	301.2	207.6	122.6	74.1	51.9	37.1	27.4	21.1	19.4
97.5°	560.8	524.2	383.7	227.8	132.0	85.7	61.6	47.0	38.6	33.7	33.1
100°	652.5	540.1	365.0	215.0	130.6	90.7	68.4	54.8	46.8	42.8	42.2
102.5°	657.1	510.5	337.7	204.1	132.4	96.6	76.2	63.9	56.4	52.8	51.8
105°	622.3	458.6	304.0	196.2	137.5	106.7	89.0	78.1	71.3	67.9	66.2
107.5°	561.4	412.7	282.6	195.6	146.8	119.8	103.4	93.2	86.5	83.2	81.4
110°	523.0	386.7	274.3	197.9	154.6	128.9	112.9	103.2	97.0	94.1	92.4



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	489.7	369.4	269.8	202.5	162.3	138.5	123.0	113.3	107.0	104.2	102.4
115°	449.5	350.8	268.1	209.9	175.1	153.4	138.0	128.3	122.6	119.2	116.9
117.5°	425.2	339.8	269.1	219.7	188.7	167.2	153.0	142.1	136.9	134.0	131.4
120°	412.4	334.8	270.9	227.0	197.3	176.8	162.6	151.7	146.0	143.2	141.5
122.5°	401.9	331.6	274.1	233.9	206.5	186.4	171.2	160.8	154.7	151.8	150.1
125°	388.4	327.4	278.9	244.7	219.6	199.6	184.2	173.4	167.1	163.7	162.6
127.5°	376.6	325.3	284.4	253.6	231.0	211.7	196.3	184.3	178.0	173.7	172.0
130°	370.2	324.0	288.0	259.5	237.8	219.0	203.6	191.6	184.8	179.7	178.0
132.5°	364.2	323.5	290.8	265.0	243.8	225.4	210.5	198.5	190.3	184.7	182.5
135°	356.5	322.8	294.9	272.1	252.7	235.0	219.6	207.6	199.1	192.8	190.5
137.5°	349.8	321.6	297.6	277.3	258.8	241.8	227.6	215.7	206.6	200.4	198.0
140°	345.6	321.1	299.4	280.1	262.9	246.4	232.1	220.7	211.6	205.9	203.1
142.5°	342.0	320.2	300.8	282.8	266.1	250.1	236.7	225.3	217.1	210.9	208.5
145°	337.1	318.8	301.7	285.8	270.4	255.5	242.4	232.7	224.2	219.0	217.3
147.5°	332.3	316.7	301.7	287.6	273.8	260.2	249.0	239.7	232.3	227.2	226.2
150°	329.1	314.8	301.7	288.0	276.1	262.9	252.7	244.7	237.3	232.7	232.1
152.5°	325.5	312.6	300.4	289.0	277.4	266.1	256.3	249.3	242.8	238.2	238.1
155°	320.0	308.6	298.9	289.2	280.1	270.4	262.4	256.1	250.4	247.0	247.0
157.5°	313.8	305.0	296.9	289.8	281.5	273.8	267.6	262.3	257.2	254.5	254.0
160°	309.7	302.3	296.0	289.8	282.9	276.1	270.4	266.4	261.8	259.5	259.5
162.5°	305.6	299.6	294.2	289.3	283.4	277.4	272.6	269.1	265.5	263.6	263.6
165°	300.0	295.5	291.5	288.0	284.0	279.5	275.5	273.2	270.4	269.2	269.8
167.5°	294.7	291.3	288.7	287.1	283.9	280.6	278.1	276.5	274.3	273.8	274.5
170°	291.5	288.6	286.9	285.8	283.5	280.6	279.5	278.3	276.6	276.1	277.2
172.5°	288.3	286.3	285.5	285.3	283.5	281.1	280.4	279.7	278.5	278.3	279.0
175°	284.6	283.5	283.5	284.0	282.9	281.8	281.2	281.2	280.1	280.6	281.2
177.5°	282.2	281.8	282.2	283.1	282.2	281.8	281.8	281.8	281.3	281.8	282.2
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.8	484.8	487.9	490.2	492.8	494.3	495.7	496.9	498.4	498.7	504.1
5°	486.0	490.6	498.8	504.8	512.3	520.4	526.0	528.6	535.4	540.9	552.1
7.5°	485.4	495.3	507.6	520.4	534.0	546.7	557.7	570.8	580.0	594.0	607.7
10°	484.8	498.1	513.9	530.2	549.3	567.0	582.9	600.6	615.3	634.6	651.1
12.5°	483.1	499.2	521.2	540.5	563.7	588.1	611.6	634.3	647.3	679.5	694.7
15°	479.0	498.1	525.6	554.9	586.8	615.7	645.5	669.3	707.7	735.9	753.9
17.5°	471.1	497.8	530.4	565.8	604.6	642.7	676.5	712.5	753.3	787.4	823.8
20°	467.3	496.7	533.0	572.2	612.5	655.6	694.0	737.3	781.8	815.4	862.0
22.5°	460.4	493.7	532.8	576.4	619.5	664.1	709.1	752.8	804.2	850.4	894.8
25°	449.2	486.4	527.0	575.7	626.2	670.9	724.8	782.8	836.3	895.8	940.0
27.5°	437.3	477.1	517.7	563.0	617.4	670.5	738.2	803.7	869.2	920.5	953.3
30°	428.2	466.9	508.8	554.5	608.3	671.4	747.1	818.6	882.5	926.5	944.9
32.5°	418.3	457.5	494.6	542.5	599.9	670.8	752.7	827.4	883.2	912.5	908.9
35°	402.8	435.6	471.8	517.9	585.4	666.7	756.0	828.2	862.4	856.1	808.6
37.5°	380.4	408.1	443.6	494.1	568.7	658.1	749.4	803.6	801.4	750.2	681.3
40°	366.5	390.0	424.2	477.3	555.6	652.5	739.2	774.4	744.6	673.0	590.6
42.5°	348.2	369.9	404.1	458.7	541.3	641.2	719.6	729.8	671.5	589.2	513.6
45°	319.9	339.0	374.4	430.8	519.7	616.4	671.9	646.9	568.4	483.4	425.9
47.5°	289.4	309.3	343.3	401.3	488.6	579.2	605.6	552.6	472.0	403.0	350.2
50°	270.2	289.3	322.7	381.1	467.6	548.6	559.6	491.1	417.0	356.4	313.1
52.5°	250.9	268.8	301.6	360.3	443.0	513.2	506.5	436.7	368.6	316.9	282.9
55°	222.0	239.0	270.2	325.2	400.5	456.1	431.7	365.1	308.7	268.6	242.7
57.5°	196.2	212.5	239.4	289.1	354.5	392.8	361.7	305.5	260.7	229.8	210.6
60°	178.7	193.1	218.8	264.9	321.7	350.8	320.1	270.5	232.7	208.0	190.8
62.5°	162.1	174.7	198.4	240.3	289.7	314.1	283.0	241.0	208.9	187.0	172.3
65°	137.0	148.4	169.4	202.0	242.5	258.8	232.0	198.0	173.1	156.8	147.0
67.5°	114.1	123.8	141.9	167.5	197.4	209.2	188.8	162.5	143.7	130.6	122.9
70°	98.8	107.2	121.4	143.5	170.5	179.6	160.5	138.8	125.1	114.6	107.4
72.5°	85.9	92.1	105.0	122.1	144.6	151.8	138.5	119.5	106.7	98.8	93.0
75°	65.5	70.6	79.0	92.7	108.3	112.5	102.5	90.6	82.0	76.4	72.0
77.5°	47.2	51.0	57.0	65.5	76.3	80.1	73.8	65.8	59.5	55.8	53.3
80°	35.6	38.7	43.8	50.8	57.3	59.4	55.7	49.6	45.2	43.1	41.0
82.5°	26.3	28.0	31.1	35.9	40.3	42.8	39.7	36.0	33.6	31.7	30.9
85°	13.3	14.2	15.6	17.5	20.3	21.2	20.0	19.1	17.7	16.5	16.5
87.5°	5.3	5.5	6.4	7.0	8.0	8.9	9.1	9.0	9.2	8.9	8.8
90°	2.3	3.4	5.1	6.3	7.4	9.1	10.8	12.5	14.3	13.7	14.3
92.5°	10.5	15.3	19.7	24.5	33.0	47.9	72.4	96.5	87.7	66.2	48.0
95°	21.1	27.4	37.1	51.9	74.1	122.6	207.6	301.2	338.2	274.3	205.3
97.5°	33.7	38.6	47.0	61.6	85.7	132.0	227.8	383.7	524.2	560.8	511.9
100°	42.8	46.8	54.8	68.4	90.7	130.6	215.0	365.0	540.1	652.5	672.5
102.5°	52.8	56.4	63.9	76.2	96.6	132.4	204.1	337.7	510.5	657.1	725.9
105°	67.9	71.3	78.1	89.0	106.7	137.5	196.2	304.0	458.6	622.3	741.5
107.5°	83.2	86.5	93.2	103.4	119.8	146.8	195.6	282.6	412.7	561.4	696.5
110°	94.1	97.0	103.2	112.9	128.9	154.6	197.9	274.3	386.7	523.0	653.6





TEST NUMBER: P331876

CATALOG NUMBER: S123DIP-S340D585U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	104.2	107.0	113.3	123.0	138.5	162.3	202.5	269.8	369.4	489.7	611.2
115°	119.2	122.6	128.3	138.0	153.4	175.1	209.9	268.1	350.8	449.5	555.0
117.5°	134.0	136.9	142.1	153.0	167.2	188.7	219.7	269.1	339.8	425.2	514.2
120°	143.2	146.0	151.7	162.6	176.8	197.3	227.0	270.9	334.8	412.4	492.8
122.5°	151.8	154.7	160.8	171.2	186.4	206.5	233.9	274.1	331.6	401.9	475.9
125°	163.7	167.1	173.4	184.2	199.6	219.6	244.7	278.9	327.4	388.4	453.4
127.5°	173.7	178.0	184.3	196.3	211.7	231.0	253.6	284.4	325.3	376.6	433.8
130°	179.7	184.8	191.6	203.6	219.0	237.8	259.5	288.0	324.0	370.2	421.5
132.5°	184.7	190.3	198.5	210.5	225.4	243.8	265.0	290.8	323.5	364.2	410.1
135°	192.8	199.1	207.6	219.6	235.0	252.7	272.1	294.9	322.8	356.5	394.7
137.5°	200.4	206.6	215.7	227.6	241.8	258.8	277.3	297.6	321.6	349.8	380.7
140°	205.9	211.6	220.7	232.1	246.4	262.9	280.1	299.4	321.1	345.6	372.5
142.5°	210.9	217.1	225.3	236.7	250.1	266.1	282.8	300.8	320.2	342.0	364.7
145°	219.0	224.2	232.7	242.4	255.5	270.4	285.8	301.7	318.8	337.1	355.3
147.5°	227.2	232.3	239.7	249.0	260.2	273.8	287.6	301.7	316.7	332.3	347.7
150°	232.7	237.3	244.7	252.7	262.9	276.1	288.0	301.7	314.8	329.1	342.2
152.5°	238.2	242.8	249.3	256.3	266.1	277.4	289.0	300.4	312.6	325.5	337.2
155°	247.0	250.4	256.1	262.4	270.4	280.1	289.2	298.9	308.6	320.0	329.7
157.5°	254.5	257.2	262.3	267.6	273.8	281.5	289.8	296.9	305.0	313.8	321.7
160°	259.5	261.8	266.4	270.4	276.1	282.9	289.8	296.0	302.3	309.7	317.1
162.5°	263.6	265.5	269.1	272.6	277.4	283.4	289.3	294.2	299.6	305.6	311.7
165°	269.2	270.4	273.2	275.5	279.5	284.0	288.0	291.5	295.5	300.0	304.6
167.5°	273.8	274.3	276.5	278.1	280.6	283.9	287.1	288.7	291.3	294.7	298.4
170°	276.1	276.6	278.3	279.5	280.6	283.5	285.8	286.9	288.6	291.5	294.3
172.5°	278.3	278.5	279.7	280.4	281.1	283.5	285.3	285.5	286.3	288.3	290.7
175°	280.6	280.1	281.2	281.2	281.8	282.9	284.0	283.5	283.5	284.6	285.8
177.5°	281.8	281.3	281.8	281.8	281.8	282.2	283.1	282.2	281.8	282.2	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8	281.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	506.0	506.2	508.2	509.7	509.0	509.9	510.3
5°	552.8	561.2	565.6	568.9	569.1	569.4	571.2
7.5°	619.2	628.2	634.8	644.8	647.7	651.1	650.2
10°	667.7	681.0	692.4	698.4	705.0	714.5	706.8
12.5°	713.0	736.5	753.9	763.3	769.4	771.3	767.6
15°	787.7	818.4	834.9	834.5	855.4	864.5	850.3
17.5°	856.1	884.5	907.3	918.9	936.4	940.2	938.5
20°	898.1	929.1	946.8	966.8	975.9	984.0	985.4
22.5°	934.2	962.1	981.1	997.7	1005.3	1009.2	1011.5
25°	971.5	993.4	1004.8	1010.6	1012.7	1012.2	1009.2
27.5°	968.9	970.6	958.0	945.7	934.6	922.2	917.9
30°	943.7	924.2	889.2	869.4	840.3	817.2	826.6
32.5°	877.6	838.6	799.4	756.1	720.3	710.1	699.8
35°	749.0	680.5	640.4	593.8	575.2	556.6	543.7
37.5°	605.9	553.0	505.4	475.0	456.3	444.5	438.2
40°	523.9	476.2	437.0	412.3	398.1	384.9	383.0
42.5°	458.5	414.1	384.7	365.0	351.4	345.7	341.6
45°	375.5	344.6	324.8	310.8	301.7	298.2	293.5
47.5°	317.9	296.0	281.1	271.6	264.7	262.1	261.8
50°	285.6	267.4	256.5	249.0	243.7	242.7	239.0
52.5°	261.4	245.6	237.1	230.6	226.7	224.1	223.0
55°	226.9	216.4	208.7	205.0	202.0	199.4	199.4
57.5°	198.5	189.8	184.7	181.5	180.6	178.8	177.6
60°	181.0	173.6	169.6	166.8	164.9	165.2	163.1
62.5°	163.9	159.0	155.2	152.5	150.2	150.3	150.4
65°	139.5	135.8	133.0	132.1	130.7	129.1	129.5
67.5°	118.3	114.8	112.6	111.0	110.5	109.6	111.0
70°	103.0	100.4	98.8	97.4	96.9	97.1	98.3
72.5°	89.0	87.2	86.1	85.5	84.4	84.5	85.3
75°	69.9	68.5	67.6	66.9	66.6	66.6	66.6
77.5°	51.3	51.0	50.6	49.6	49.6	49.9	49.9
80°	40.5	39.8	39.6	39.1	38.4	38.0	39.1
82.5°	30.3	29.6	29.4	29.3	28.2	28.1	29.1
85°	16.3	15.6	15.8	15.6	15.6	15.4	15.4
87.5°	8.7	8.7	8.7	8.8	8.7	8.6	8.9
90°	14.8	15.4	16.5	16.0	16.5	17.1	16.5
92.5°	38.1	33.7	30.7	29.7	27.9	28.5	27.5
95°	139.2	108.9	88.4	77.6	72.4	68.4	66.2
97.5°	410.0	336.4	268.2	226.1	200.4	185.0	180.1
100°	626.3	559.5	478.5	420.9	379.3	357.1	357.6
102.5°	724.4	685.5	634.1	589.3	556.3	537.7	524.6
105°	798.5	809.4	794.5	768.3	746.6	728.4	725.5
107.5°	789.2	839.1	859.4	859.9	852.6	846.4	841.2
110°	758.6	830.5	870.4	886.4	890.9	889.8	888.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	718.4	799.0	850.3	879.5	893.7	898.0	898.2
115°	654.2	738.1	800.2	843.0	868.1	879.5	882.4
117.5°	599.9	675.2	738.3	782.9	811.6	828.1	831.9
120°	569.8	638.2	695.9	740.9	772.9	786.5	790.0
122.5°	545.6	609.0	662.5	702.6	731.3	746.4	750.7
125°	515.6	570.4	616.0	652.5	677.6	691.9	695.9
127.5°	489.3	538.7	580.2	612.7	634.1	647.0	650.7
130°	472.8	519.0	557.8	588.1	608.6	620.6	625.1
132.5°	457.3	500.3	537.3	565.7	586.2	596.8	600.0
135°	435.2	472.3	504.8	532.7	549.8	560.1	564.1
137.5°	413.9	445.8	474.0	497.5	514.8	523.5	526.1
140°	401.5	428.9	453.4	475.1	491.1	500.2	499.6
142.5°	389.7	413.4	434.7	453.2	467.4	475.6	475.0
145°	374.2	392.4	409.0	423.2	435.2	439.8	440.9
147.5°	362.6	377.4	389.1	399.9	408.0	412.4	412.8
150°	355.3	367.3	378.2	386.7	393.0	396.4	396.4
152.5°	348.5	359.1	368.1	374.8	380.7	382.7	382.7
155°	338.8	347.4	354.2	359.3	363.9	365.0	365.6
157.5°	329.3	336.0	341.3	345.8	349.2	350.1	350.0
160°	323.4	329.1	333.1	337.1	340.5	340.5	339.9
162.5°	317.0	322.3	325.8	328.4	331.4	331.4	330.8
165°	308.0	312.0	314.8	317.1	319.4	318.8	318.8
167.5°	301.0	303.3	305.4	306.4	308.0	307.4	307.4
170°	296.0	298.3	299.4	300.0	301.2	300.6	300.6
172.5°	291.9	293.7	294.4	294.5	295.7	294.7	294.2
175°	286.3	287.5	287.5	287.5	288.0	287.5	286.9
177.5°	283.1	283.6	283.6	283.1	283.6	282.7	282.7
180°	281.8	281.8	281.8	281.8	281.8	281.8	281.8

(END OF REPORT)