

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: P331884

Luminaire Tested: **S123DIP-S340D805U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331884  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIP-S340D805U835-4F0-1E-UDD-A1  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 805 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4211.8 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

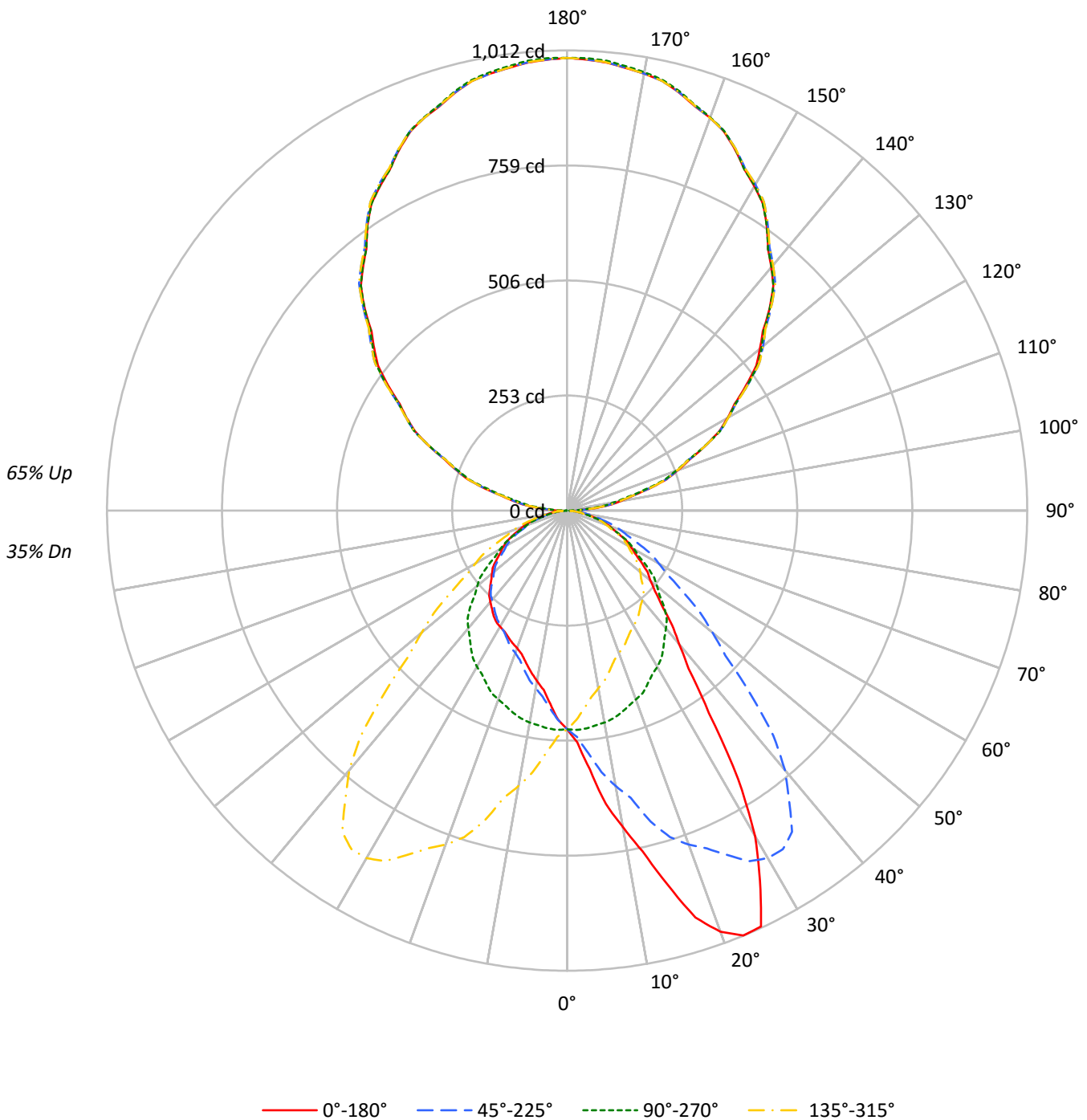
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	37	36	36	29
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	70	63	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	62	54	48	65	56	49	44	45	41	37	35	32	30	26	24	22	18
5	66	55	47	41	59	50	43	38	41	36	32	32	28	26	24	21	20	16
6	61	49	41	36	55	45	38	33	36	31	28	29	25	22	22	19	17	14
7	56	44	37	31	51	40	34	29	33	28	24	26	22	20	20	17	15	13
8	52	40	33	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	23	27	23	19	22	18	16	17	14	12	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	9

**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	1.1
10°-20°	151.9	3.6
20°-30°	254.9	6.1
30°-40°	288.6	6.9
40°-50°	258.8	6.1
50°-60°	208.9	5.0
60°-70°	145.6	3.5
70°-80°	76.5	1.8
80°-90°	21.6	0.5
90°-100°	64.8	1.5
100°-110°	194.1	4.6
110°-120°	330.1	7.8
120°-130°	434.2	10.3
130°-140°	488.0	11.6
140°-150°	479.7	11.4
150°-160°	403.8	9.6
160°-170°	268.8	6.4
170°-180°	94.1	2.2
0°-30°	454.2	10.8
0°-40°	742.8	17.6
0°-60°	1210.5	28.7
0°-90°	1454.2	34.5
90°-120°	589.0	14.0
90°-150°	1990.8	47.3
90°-180°	2758.0	65.5
0°-180°	4211.8	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°	24	1	24	1	24	12
95°	61	46	61	46	61	63
105°	186	176	186	176	186	197
115°	333	332	333	332	333	330
125°	481	486	481	486	481	430
135°	630	631	630	631	630	484
145°	765	765	765	765	765	478
155°	875	876	875	876	875	403
165°	952	955	952	955	952	268
175°	989	993	989	993	989	94
180°	995	995	995	995	995	



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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°	10.3	9.8	10.0	10.1	9.8	9.9	9.9	10.0	10.0	10.1	9.8
90°	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2	19.5	18.8	16.5
92.5°	31.6	31.8	32.0	32.2	32.4	32.2	31.7	31.1	30.6	30.0	28.7
95°	61.0	61.0	61.0	61.0	61.0	60.6	59.9	59.2	58.6	57.9	56.5
97.5°	93.8	93.9	94.0	94.0	94.1	93.7	92.9	92.1	91.3	90.5	89.5
100°	118.8	118.5	118.1	117.8	117.5	117.0	116.5	116.0	115.5	114.9	114.1
102.5°	144.5	144.6	144.6	144.7	144.8	144.5	144.0	143.5	143.0	142.5	141.3
105°	186.1	185.7	185.4	185.0	184.7	184.5	184.5	184.5	184.5	184.5	183.0
107.5°	229.4	229.6	229.8	230.0	230.2	230.1	229.5	228.9	228.4	227.8	227.2
110°	258.8	259.1	259.5	259.8	260.2	260.0	259.3	258.6	257.9	257.2	256.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	290.1	290.1	290.2	290.3	290.3	290.0	289.1	288.3	287.5	286.6	286.6
115°	333.1	333.2	333.4	333.6	333.8	333.8	333.6	333.4	333.2	333.1	333.4
117.5°	376.7	377.2	377.7	378.2	378.6	378.9	378.9	379.0	379.0	379.0	379.5
120°	407.3	407.7	408.0	408.4	408.7	409.0	409.2	409.3	409.5	409.7	410.6
122.5°	436.7	437.2	437.7	438.2	438.7	439.2	439.6	440.1	440.5	441.0	441.4
125°	480.8	481.5	482.2	482.9	483.6	484.3	485.0	485.7	486.4	487.1	487.4
127.5°	524.8	525.6	526.4	527.2	528.0	528.9	529.8	530.8	531.8	532.7	533.1
130°	553.5	554.8	556.0	557.2	558.4	559.4	560.1	560.8	561.4	562.1	562.7
132.5°	583.6	584.5	585.4	586.4	587.3	588.2	589.0	589.9	590.7	591.5	591.9
135°	630.2	630.5	630.9	631.2	631.6	632.1	632.8	633.5	634.2	634.9	635.0
137.5°	671.3	672.0	672.6	673.3	673.9	674.6	675.4	676.1	676.8	677.5	677.1
140°	698.2	699.4	700.6	701.8	703.1	703.7	703.9	704.1	704.3	704.4	704.3
142.5°	725.7	726.6	727.6	728.5	729.5	730.0	730.2	730.4	730.5	730.7	730.4
145°	765.4	766.1	766.8	767.5	768.2	768.6	768.8	769.0	769.2	769.3	768.8
147.5°	800.8	801.8	802.8	803.9	804.9	805.5	805.5	805.5	805.5	805.5	805.0
150°	823.3	824.3	825.4	826.4	827.5	828.0	828.0	828.0	828.0	828.0	827.6
152.5°	845.2	846.1	847.0	847.9	848.8	849.1	848.8	848.5	848.3	848.0	847.8
155°	874.9	876.1	877.3	878.5	879.7	880.0	879.3	878.6	877.9	877.2	877.1
157.5°	901.9	902.9	903.9	904.9	905.8	905.9	905.2	904.5	903.8	903.0	902.9
160°	919.4	920.1	920.8	921.5	922.2	922.1	921.3	920.4	919.5	918.7	918.7
162.5°	932.6	933.7	934.8	935.9	937.0	937.2	936.3	935.4	934.5	933.7	933.5
165°	951.5	952.7	953.9	955.2	956.4	956.5	955.4	954.4	953.3	952.3	952.3
167.5°	967.6	968.7	969.8	970.8	971.9	971.9	970.8	969.8	968.7	967.6	967.5
170°	975.7	977.0	978.2	979.4	980.6	980.6	979.4	978.2	977.0	975.7	975.7
172.5°	982.0	983.2	984.4	985.6	986.9	986.9	985.9	984.8	983.7	982.6	982.6
175°	989.0	990.2	991.5	992.7	993.9	994.0	992.9	991.9	990.9	989.8	989.8
177.5°	992.8	993.8	994.7	995.7	996.7	996.7	995.9	995.1	994.2	993.4	993.4
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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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°	9.7	9.5	8.5	7.3	6.6	5.7	5.3	4.6	4.6	5.0	5.1
90°	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8	2.5	4.3	6.0
92.5°	27.5	26.2	24.9	23.6	22.5	21.3	20.1	18.9	20.1	21.3	22.5
95°	55.1	53.7	52.3	51.0	49.8	48.6	47.3	46.1	47.3	48.6	49.8
97.5°	88.5	87.5	86.5	85.6	84.6	83.7	82.8	81.9	82.8	83.7	84.6
100°	113.2	112.3	111.5	110.5	109.5	108.4	107.4	106.3	107.4	108.4	109.5
102.5°	140.2	139.0	137.9	137.0	136.4	135.7	135.1	134.5	135.1	135.7	136.4
105°	181.4	179.8	178.3	177.3	177.0	176.6	176.3	175.9	176.3	176.6	177.0
107.5°	226.6	226.0	225.3	224.9	224.7	224.5	224.3	224.1	224.3	224.5	224.7
110°	256.5	256.2	255.8	255.5	255.1	254.8	254.4	254.1	254.4	254.8	255.1





TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	286.5	286.4	286.3	286.2	286.0	285.8	285.6	285.4	285.6	285.8	286.0
115°	333.8	334.1	334.5	334.4	333.8	333.3	332.8	332.3	332.8	333.3	333.8
117.5°	379.9	380.4	380.8	380.9	380.5	380.2	379.9	379.5	379.9	380.2	380.5
120°	411.4	412.3	413.2	413.1	412.0	411.0	409.9	408.9	409.9	411.0	412.0
122.5°	441.9	442.3	442.8	442.6	441.8	441.1	440.3	439.6	440.3	441.1	441.8
125°	487.8	488.1	488.5	488.4	487.9	487.3	486.8	486.3	486.8	487.3	487.9
127.5°	533.5	533.9	534.3	533.9	532.8	531.7	530.6	529.5	530.6	531.7	532.8
130°	563.2	563.7	564.2	563.8	562.4	561.0	559.6	558.2	559.6	561.0	562.4
132.5°	592.3	592.7	593.1	592.6	591.2	589.8	588.4	587.0	588.4	589.8	591.2
135°	635.2	635.4	635.6	635.1	634.1	633.0	632.0	630.9	632.0	633.0	634.1
137.5°	676.6	676.2	675.7	675.1	674.2	673.3	672.5	671.6	672.5	673.3	674.2
140°	704.1	703.9	703.7	703.2	702.4	701.5	700.6	699.7	700.6	701.5	702.4
142.5°	730.1	729.8	729.5	728.9	728.0	727.1	726.3	725.4	726.3	727.1	728.0
145°	768.3	767.8	767.2	766.8	766.5	766.1	765.8	765.4	765.8	766.1	766.5
147.5°	804.5	804.0	803.5	803.0	802.3	801.7	801.1	800.5	801.1	801.7	802.3
150°	827.3	826.9	826.6	826.2	825.9	825.5	825.2	824.8	825.2	825.5	825.9
152.5°	847.6	847.4	847.2	846.8	846.3	845.8	845.3	844.9	845.3	845.8	846.3
155°	876.9	876.7	876.5	876.4	876.4	876.4	876.4	876.4	876.4	876.4	876.4
157.5°	902.8	902.6	902.5	902.5	902.7	902.9	903.1	903.3	903.1	902.9	902.7
160°	918.7	918.7	918.7	918.8	919.2	919.5	919.9	920.2	919.9	919.5	919.2
162.5°	933.4	933.3	933.1	933.3	933.8	934.3	934.8	935.2	934.8	934.3	933.8
165°	952.3	952.3	952.3	952.5	953.1	953.6	954.1	954.6	954.1	953.6	953.1
167.5°	967.3	967.2	967.1	967.3	968.0	968.7	969.4	970.1	969.4	968.7	968.0
170°	975.7	975.7	975.7	976.1	976.8	977.5	978.2	978.9	978.2	977.5	976.8
172.5°	982.6	982.6	982.6	983.0	983.7	984.4	985.1	985.7	985.1	984.4	983.7
175°	989.8	989.8	989.8	990.2	990.9	991.6	992.2	992.9	992.2	991.6	990.9
177.5°	993.4	993.4	993.4	993.7	994.2	994.8	995.4	995.9	995.4	994.8	994.2
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**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°	5.3	5.9	6.1	6.8	7.0	7.7	7.8	7.6	7.7	8.4	7.8
90°	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2	20.8	21.5	22.1
92.5°	23.6	24.9	26.2	27.5	28.7	30.0	30.6	31.1	31.7	32.2	32.4
95°	51.0	52.3	53.7	55.1	56.5	57.9	58.6	59.2	59.9	60.6	61.0
97.5°	85.6	86.5	87.5	88.5	89.5	90.5	91.3	92.1	92.9	93.7	94.1
100°	110.5	111.5	112.3	113.2	114.1	114.9	115.5	116.0	116.5	117.0	117.5
102.5°	137.0	137.9	139.0	140.2	141.3	142.5	143.0	143.5	144.0	144.5	144.8
105°	177.3	178.3	179.8	181.4	183.0	184.5	184.5	184.5	184.5	184.5	184.7
107.5°	224.9	225.3	226.0	226.6	227.2	227.8	228.4	228.9	229.5	230.1	230.2
110°	255.5	255.8	256.2	256.5	256.9	257.2	257.9	258.6	259.3	260.0	260.2



TEST NUMBER: P331884

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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	286.2	286.3	286.4	286.5	286.6	286.6	287.5	288.3	289.1	290.0	290.3
115°	334.4	334.5	334.1	333.8	333.4	333.1	333.2	333.4	333.6	333.8	333.8
117.5°	380.9	380.8	380.4	379.9	379.5	379.0	379.0	379.0	378.9	378.9	378.6
120°	413.1	413.2	412.3	411.4	410.6	409.7	409.5	409.3	409.2	409.0	408.7
122.5°	442.6	442.8	442.3	441.9	441.4	441.0	440.5	440.1	439.6	439.2	438.7
125°	488.4	488.5	488.1	487.8	487.4	487.1	486.4	485.7	485.0	484.3	483.6
127.5°	533.9	534.3	533.9	533.5	533.1	532.7	531.8	530.8	529.8	528.9	528.0
130°	563.8	564.2	563.7	563.2	562.7	562.1	561.4	560.8	560.1	559.4	558.4
132.5°	592.6	593.1	592.7	592.3	591.9	591.5	590.7	589.9	589.0	588.2	587.3
135°	635.1	635.6	635.4	635.2	635.0	634.9	634.2	633.5	632.8	632.1	631.6
137.5°	675.1	675.7	676.2	676.6	677.1	677.5	676.8	676.1	675.4	674.6	673.9
140°	703.2	703.7	703.9	704.1	704.3	704.4	704.3	704.1	703.9	703.7	703.1
142.5°	728.9	729.5	729.8	730.1	730.4	730.7	730.5	730.4	730.2	730.0	729.5
145°	766.8	767.2	767.8	768.3	768.8	769.3	769.2	769.0	768.8	768.6	768.2
147.5°	803.0	803.5	804.0	804.5	805.0	805.5	805.5	805.5	805.5	805.5	804.9
150°	826.2	826.6	826.9	827.3	827.6	828.0	828.0	828.0	828.0	828.0	827.5
152.5°	846.8	847.2	847.4	847.6	847.8	848.0	848.3	848.5	848.8	849.1	848.8
155°	876.4	876.5	876.7	876.9	877.1	877.2	877.9	878.6	879.3	880.0	879.7
157.5°	902.5	902.5	902.6	902.8	902.9	903.0	903.8	904.5	905.2	905.9	905.8
160°	918.8	918.7	918.7	918.7	918.7	918.7	919.5	920.4	921.3	922.1	922.2
162.5°	933.3	933.1	933.3	933.4	933.5	933.7	934.5	935.4	936.3	937.2	937.0
165°	952.5	952.3	952.3	952.3	952.3	952.3	953.3	954.4	955.4	956.5	956.4
167.5°	967.3	967.1	967.2	967.3	967.5	967.6	968.7	969.8	970.8	971.9	971.9
170°	976.1	975.7	975.7	975.7	975.7	975.7	977.0	978.2	979.4	980.6	980.6
172.5°	983.0	982.6	982.6	982.6	982.6	982.6	983.7	984.8	985.9	986.9	986.9
175°	990.2	989.8	989.8	989.8	989.8	989.8	990.9	991.9	992.9	994.0	993.9
177.5°	993.7	993.4	993.4	993.4	993.4	993.4	994.2	995.1	995.9	996.7	996.7
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**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°	7.8	7.9	7.8	7.7	7.8	7.9	7.8	7.8	8.4	7.7	7.6
90°	22.4	22.8	23.1	23.5	23.1	22.8	22.4	22.1	21.5	20.8	20.2
92.5°	32.2	32.0	31.8	31.6	31.8	32.0	32.2	32.4	32.2	31.7	31.1
95°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	60.6	59.9	59.2
97.5°	94.0	94.0	93.9	93.8	93.9	94.0	94.0	94.1	93.7	92.9	92.1
100°	117.8	118.1	118.5	118.8	118.5	118.1	117.8	117.5	117.0	116.5	116.0
102.5°	144.7	144.6	144.6	144.5	144.6	144.6	144.7	144.8	144.5	144.0	143.5
105°	185.0	185.4	185.7	186.1	185.7	185.4	185.0	184.7	184.5	184.5	184.5
107.5°	230.0	229.8	229.6	229.4	229.6	229.8	230.0	230.2	230.1	229.5	228.9
110°	259.8	259.5	259.1	258.8	259.1	259.5	259.8	260.2	260.0	259.3	258.6



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	290.3	290.2	290.1	290.1	290.1	290.2	290.3	290.3	290.0	289.1	288.3
115°	333.6	333.4	333.2	333.1	333.2	333.4	333.6	333.8	333.8	333.6	333.4
117.5°	378.2	377.7	377.2	376.7	377.2	377.7	378.2	378.6	378.9	378.9	379.0
120°	408.4	408.0	407.7	407.3	407.7	408.0	408.4	408.7	409.0	409.2	409.3
122.5°	438.2	437.7	437.2	436.7	437.2	437.7	438.2	438.7	439.2	439.6	440.1
125°	482.9	482.2	481.5	480.8	481.5	482.2	482.9	483.6	484.3	485.0	485.7
127.5°	527.2	526.4	525.6	524.8	525.6	526.4	527.2	528.0	528.9	529.8	530.8
130°	557.2	556.0	554.8	553.5	554.8	556.0	557.2	558.4	559.4	560.1	560.8
132.5°	586.4	585.4	584.5	583.6	584.5	585.4	586.4	587.3	588.2	589.0	589.9
135°	631.2	630.9	630.5	630.2	630.5	630.9	631.2	631.6	632.1	632.8	633.5
137.5°	673.3	672.6	672.0	671.3	672.0	672.6	673.3	673.9	674.6	675.4	676.1
140°	701.8	700.6	699.4	698.2	699.4	700.6	701.8	703.1	703.7	703.9	704.1
142.5°	728.5	727.6	726.6	725.7	726.6	727.6	728.5	729.5	730.0	730.2	730.4
145°	767.5	766.8	766.1	765.4	766.1	766.8	767.5	768.2	768.6	768.8	769.0
147.5°	803.9	802.8	801.8	800.8	801.8	802.8	803.9	804.9	805.5	805.5	805.5
150°	826.4	825.4	824.3	823.3	824.3	825.4	826.4	827.5	828.0	828.0	828.0
152.5°	847.9	847.0	846.1	845.2	846.1	847.0	847.9	848.8	849.1	848.8	848.5
155°	878.5	877.3	876.1	874.9	876.1	877.3	878.5	879.7	880.0	879.3	878.6
157.5°	904.9	903.9	902.9	901.9	902.9	903.9	904.9	905.8	905.9	905.2	904.5
160°	921.5	920.8	920.1	919.4	920.1	920.8	921.5	922.2	922.1	921.3	920.4
162.5°	935.9	934.8	933.7	932.6	933.7	934.8	935.9	937.0	937.2	936.3	935.4
165°	955.2	953.9	952.7	951.5	952.7	953.9	955.2	956.4	956.5	955.4	954.4
167.5°	970.8	969.8	968.7	967.6	968.7	969.8	970.8	971.9	971.9	970.8	969.8
170°	979.4	978.2	977.0	975.7	977.0	978.2	979.4	980.6	980.6	979.4	978.2
172.5°	985.6	984.4	983.2	982.0	983.2	984.4	985.6	986.9	986.9	985.9	984.8
175°	992.7	991.5	990.2	989.0	990.2	991.5	992.7	993.9	994.0	992.9	991.9
177.5°	995.7	994.7	993.8	992.8	993.8	994.7	995.7	996.7	996.7	995.9	995.1
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**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°	7.8	7.7	7.0	6.8	6.1	5.9	5.3	5.1	5.0	4.6	4.6
90°	19.5	18.8	16.5	14.2	12.0	9.7	7.7	6.0	4.3	2.5	0.8
92.5°	30.6	30.0	28.7	27.5	26.2	24.9	23.6	22.5	21.3	20.1	18.9
95°	58.6	57.9	56.5	55.1	53.7	52.3	51.0	49.8	48.6	47.3	46.1
97.5°	91.3	90.5	89.5	88.5	87.5	86.5	85.6	84.6	83.7	82.8	81.9
100°	115.5	114.9	114.1	113.2	112.3	111.5	110.5	109.5	108.4	107.4	106.3
102.5°	143.0	142.5	141.3	140.2	139.0	137.9	137.0	136.4	135.7	135.1	134.5
105°	184.5	184.5	183.0	181.4	179.8	178.3	177.3	177.0	176.6	176.3	175.9
107.5°	228.4	227.8	227.2	226.6	226.0	225.3	224.9	224.7	224.5	224.3	224.1
110°	257.9	257.2	256.9	256.5	256.2	255.8	255.5	255.1	254.8	254.4	254.1



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	287.5	286.6	286.6	286.5	286.4	286.3	286.2	286.0	285.8	285.6	285.4
115°	333.2	333.1	333.4	333.8	334.1	334.5	334.4	333.8	333.3	332.8	332.3
117.5°	379.0	379.0	379.5	379.9	380.4	380.8	380.9	380.5	380.2	379.9	379.5
120°	409.5	409.7	410.6	411.4	412.3	413.2	413.1	412.0	411.0	409.9	408.9
122.5°	440.5	441.0	441.4	441.9	442.3	442.8	442.6	441.8	441.1	440.3	439.6
125°	486.4	487.1	487.4	487.8	488.1	488.5	488.4	487.9	487.3	486.8	486.3
127.5°	531.8	532.7	533.1	533.5	533.9	534.3	533.9	532.8	531.7	530.6	529.5
130°	561.4	562.1	562.7	563.2	563.7	564.2	563.8	562.4	561.0	559.6	558.2
132.5°	590.7	591.5	591.9	592.3	592.7	593.1	592.6	591.2	589.8	588.4	587.0
135°	634.2	634.9	635.0	635.2	635.4	635.6	635.1	634.1	633.0	632.0	630.9
137.5°	676.8	677.5	677.1	676.6	676.2	675.7	675.1	674.2	673.3	672.5	671.6
140°	704.3	704.4	704.3	704.1	703.9	703.7	703.2	702.4	701.5	700.6	699.7
142.5°	730.5	730.7	730.4	730.1	729.8	729.5	728.9	728.0	727.1	726.3	725.4
145°	769.2	769.3	768.8	768.3	767.8	767.2	766.8	766.5	766.1	765.8	765.4
147.5°	805.5	805.5	805.0	804.5	804.0	803.5	803.0	802.3	801.7	801.1	800.5
150°	828.0	828.0	827.6	827.3	826.9	826.6	826.2	825.9	825.5	825.2	824.8
152.5°	848.3	848.0	847.8	847.6	847.4	847.2	846.8	846.3	845.8	845.3	844.9
155°	877.9	877.2	877.1	876.9	876.7	876.5	876.4	876.4	876.4	876.4	876.4
157.5°	903.8	903.0	902.9	902.8	902.6	902.5	902.5	902.7	902.9	903.1	903.3
160°	919.5	918.7	918.7	918.7	918.7	918.7	918.8	919.2	919.5	919.9	920.2
162.5°	934.5	933.7	933.5	933.4	933.3	933.1	933.3	933.8	934.3	934.8	935.2
165°	953.3	952.3	952.3	952.3	952.3	952.3	952.5	953.1	953.6	954.1	954.6
167.5°	968.7	967.6	967.5	967.3	967.2	967.1	967.3	968.0	968.7	969.4	970.1
170°	977.0	975.7	975.7	975.7	975.7	975.7	976.1	976.8	977.5	978.2	978.9
172.5°	983.7	982.6	982.6	982.6	982.6	982.6	983.0	983.7	984.4	985.1	985.7
175°	990.9	989.8	989.8	989.8	989.8	989.8	990.2	990.9	991.6	992.2	992.9
177.5°	994.2	993.4	993.4	993.4	993.4	993.4	993.7	994.2	994.8	995.4	995.9
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**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	5.7	6.6	7.3	8.5	9.5	9.7	9.8	10.1	10.0	10.0
90°	2.5	4.3	6.0	7.7	9.7	12.0	14.2	16.5	18.8	19.5	20.2
92.5°	20.1	21.3	22.5	23.6	24.9	26.2	27.5	28.7	30.0	30.6	31.1
95°	47.3	48.6	49.8	51.0	52.3	53.7	55.1	56.5	57.9	58.6	59.2
97.5°	82.8	83.7	84.6	85.6	86.5	87.5	88.5	89.5	90.5	91.3	92.1
100°	107.4	108.4	109.5	110.5	111.5	112.3	113.2	114.1	114.9	115.5	116.0
102.5°	135.1	135.7	136.4	137.0	137.9	139.0	140.2	141.3	142.5	143.0	143.5
105°	176.3	176.6	177.0	177.3	178.3	179.8	181.4	183.0	184.5	184.5	184.5
107.5°	224.3	224.5	224.7	224.9	225.3	226.0	226.6	227.2	227.8	228.4	228.9
110°	254.4	254.8	255.1	255.5	255.8	256.2	256.5	256.9	257.2	257.9	258.6





TEST NUMBER: P331884

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	285.6	285.8	286.0	286.2	286.3	286.4	286.5	286.6	286.6	287.5	288.3
115°	332.8	333.3	333.8	334.4	334.5	334.1	333.8	333.4	333.1	333.2	333.4
117.5°	379.9	380.2	380.5	380.9	380.8	380.4	379.9	379.5	379.0	379.0	379.0
120°	409.9	411.0	412.0	413.1	413.2	412.3	411.4	410.6	409.7	409.5	409.3
122.5°	440.3	441.1	441.8	442.6	442.8	442.3	441.9	441.4	441.0	440.5	440.1
125°	486.8	487.3	487.9	488.4	488.5	488.1	487.8	487.4	487.1	486.4	485.7
127.5°	530.6	531.7	532.8	533.9	534.3	533.9	533.5	533.1	532.7	531.8	530.8
130°	559.6	561.0	562.4	563.8	564.2	563.7	563.2	562.7	562.1	561.4	560.8
132.5°	588.4	589.8	591.2	592.6	593.1	592.7	592.3	591.9	591.5	590.7	589.9
135°	632.0	633.0	634.1	635.1	635.6	635.4	635.2	635.0	634.9	634.2	633.5
137.5°	672.5	673.3	674.2	675.1	675.7	676.2	676.6	677.1	677.5	676.8	676.1
140°	700.6	701.5	702.4	703.2	703.7	703.9	704.1	704.3	704.4	704.3	704.1
142.5°	726.3	727.1	728.0	728.9	729.5	729.8	730.1	730.4	730.7	730.5	730.4
145°	765.8	766.1	766.5	766.8	767.2	767.8	768.3	768.8	769.3	769.2	769.0
147.5°	801.1	801.7	802.3	803.0	803.5	804.0	804.5	805.0	805.5	805.5	805.5
150°	825.2	825.5	825.9	826.2	826.6	826.9	827.3	827.6	828.0	828.0	828.0
152.5°	845.3	845.8	846.3	846.8	847.2	847.4	847.6	847.8	848.0	848.3	848.5
155°	876.4	876.4	876.4	876.4	876.5	876.7	876.9	877.1	877.2	877.9	878.6
157.5°	903.1	902.9	902.7	902.5	902.5	902.6	902.8	902.9	903.0	903.8	904.5
160°	919.9	919.5	919.2	918.8	918.7	918.7	918.7	918.7	918.7	919.5	920.4
162.5°	934.8	934.3	933.8	933.3	933.1	933.3	933.4	933.5	933.7	934.5	935.4
165°	954.1	953.6	953.1	952.5	952.3	952.3	952.3	952.3	952.3	953.3	954.4
167.5°	969.4	968.7	968.0	967.3	967.1	967.2	967.3	967.5	967.6	968.7	969.8
170°	978.2	977.5	976.8	976.1	975.7	975.7	975.7	975.7	975.7	977.0	978.2
172.5°	985.1	984.4	983.7	983.0	982.6	982.6	982.6	982.6	982.6	983.7	984.8
175°	992.2	991.6	990.9	990.2	989.8	989.8	989.8	989.8	989.8	990.9	991.9
177.5°	995.4	994.8	994.2	993.7	993.4	993.4	993.4	993.4	993.4	994.2	995.1
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3



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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°	9.9	9.9	9.8	10.1	10.0	9.8	10.3
90°	20.8	21.5	22.1	22.4	22.8	23.1	23.5
92.5°	31.7	32.2	32.4	32.2	32.0	31.8	31.6
95°	59.9	60.6	61.0	61.0	61.0	61.0	61.0
97.5°	92.9	93.7	94.1	94.0	94.0	93.9	93.8
100°	116.5	117.0	117.5	117.8	118.1	118.5	118.8
102.5°	144.0	144.5	144.8	144.7	144.6	144.6	144.5
105°	184.5	184.5	184.7	185.0	185.4	185.7	186.1
107.5°	229.5	230.1	230.2	230.0	229.8	229.6	229.4
110°	259.3	260.0	260.2	259.8	259.5	259.1	258.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	289.1	290.0	290.3	290.3	290.2	290.1	290.1
115°	333.6	333.8	333.8	333.6	333.4	333.2	333.1
117.5°	378.9	378.9	378.6	378.2	377.7	377.2	376.7
120°	409.2	409.0	408.7	408.4	408.0	407.7	407.3
122.5°	439.6	439.2	438.7	438.2	437.7	437.2	436.7
125°	485.0	484.3	483.6	482.9	482.2	481.5	480.8
127.5°	529.8	528.9	528.0	527.2	526.4	525.6	524.8
130°	560.1	559.4	558.4	557.2	556.0	554.8	553.5
132.5°	589.0	588.2	587.3	586.4	585.4	584.5	583.6
135°	632.8	632.1	631.6	631.2	630.9	630.5	630.2
137.5°	675.4	674.6	673.9	673.3	672.6	672.0	671.3
140°	703.9	703.7	703.1	701.8	700.6	699.4	698.2
142.5°	730.2	730.0	729.5	728.5	727.6	726.6	725.7
145°	768.8	768.6	768.2	767.5	766.8	766.1	765.4
147.5°	805.5	805.5	804.9	803.9	802.8	801.8	800.8
150°	828.0	828.0	827.5	826.4	825.4	824.3	823.3
152.5°	848.8	849.1	848.8	847.9	847.0	846.1	845.2
155°	879.3	880.0	879.7	878.5	877.3	876.1	874.9
157.5°	905.2	905.9	905.8	904.9	903.9	902.9	901.9
160°	921.3	922.1	922.2	921.5	920.8	920.1	919.4
162.5°	936.3	937.2	937.0	935.9	934.8	933.7	932.6
165°	955.4	956.5	956.4	955.2	953.9	952.7	951.5
167.5°	970.8	971.9	971.9	970.8	969.8	968.7	967.6
170°	979.4	980.6	980.6	979.4	978.2	977.0	975.7
172.5°	985.9	986.9	986.9	985.6	984.4	983.2	982.0
175°	992.9	994.0	993.9	992.7	991.5	990.2	989.0
177.5°	995.9	996.7	996.7	995.7	994.7	993.8	992.8
180°	995.3	995.3	995.3	995.3	995.3	995.3	995.3

(END OF REPORT)