

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: P331885

Luminaire Tested: **S123DIP-S340D805U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331885
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-S340D805U835-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 805 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4360.0 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

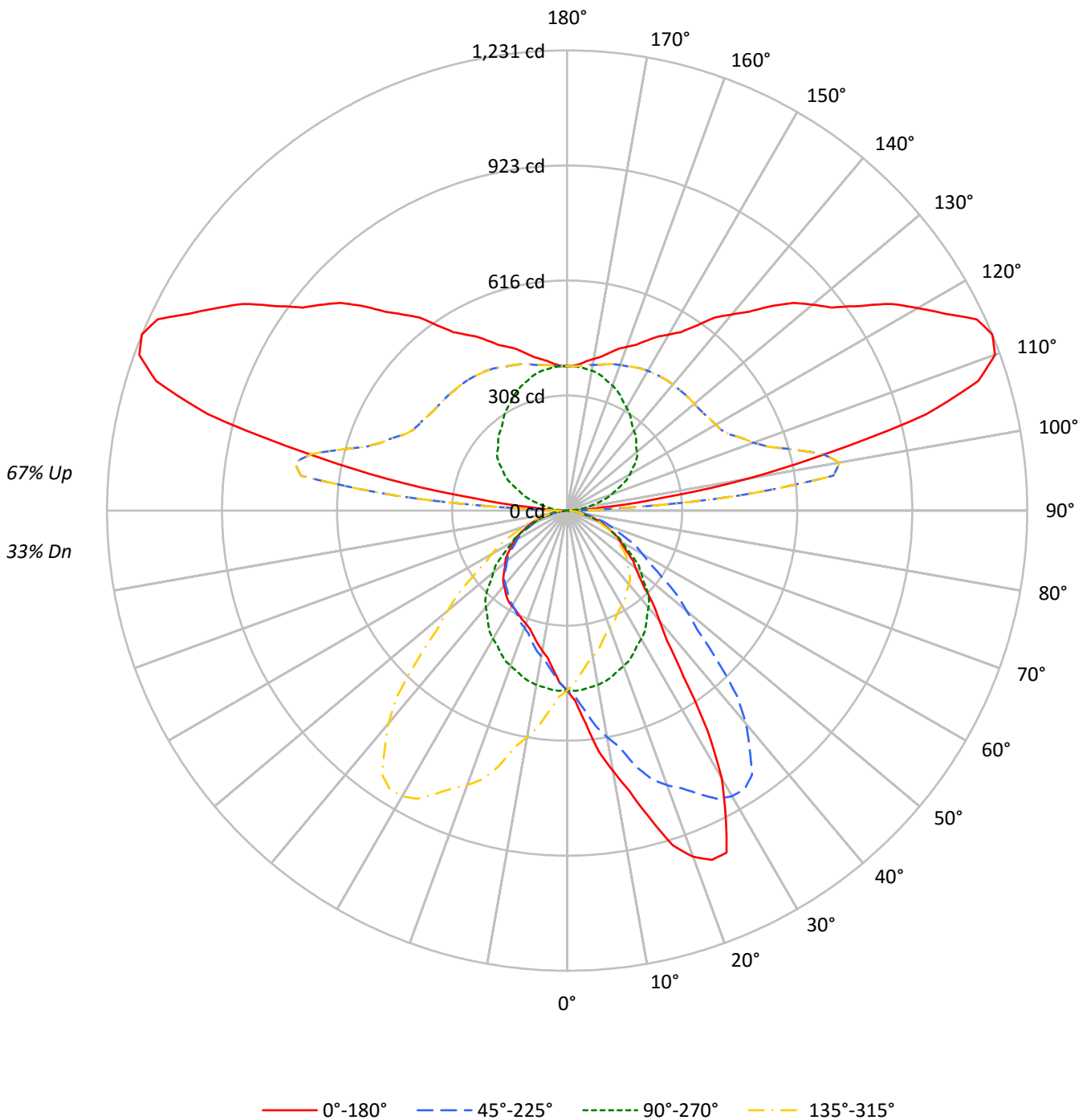
Input Watts (W): 31.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

Luminous Intensity Polar Plot





TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33				
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	36	35	28				
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	30	24				
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	21				
4	72	61	54	48	64	56	49	44	45	40	36	35	32	29	26	24	22	18				
5	66	55	47	41	59	50	43	38	40	35	31	31	28	25	23	21	19	16				
6	61	49	41	36	54	44	38	33	36	31	27	28	25	22	21	19	17	14				
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15	12				
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	18	15	13	11				
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10				
10	45	33	26	22	41	30	24	20	25	20	17	20	16	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



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	151.9	3.5
20°-30°	254.9	5.8
30°-40°	288.6	6.6
40°-50°	258.8	5.9
50°-60°	208.9	4.8
60°-70°	145.6	3.3
70°-80°	76.5	1.8
80°-90°	21.7	0.5
90°-100°	214.9	4.9
100°-110°	608.6	14.0
110°-120°	598.7	13.7
120°-130°	477.5	11.0
130°-140°	376.5	8.6
140°-150°	281.0	6.4
150°-160°	195.9	4.5
160°-170°	115.1	2.6
170°-180°	37.4	0.9
0°-30°	454.2	10.4
0°-40°	742.8	17.0
0°-60°	1210.5	27.8
0°-90°	1454.3	33.4
90°-120°	1422.2	32.6
90°-150°	2557.3	58.7
90°-180°	2906.0	66.7
0°-180°	4360.0	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°	23	2	23	2	23	13
95°	91	27	91	27	91	163
105°	994	91	994	91	994	981
115°	1210	160	1210	160	1210	1175
125°	954	223	954	223	954	864
135°	773	261	773	261	773	600
145°	604	298	604	298	604	384
155°	501	338	501	338	501	234
165°	437	370	437	370	437	125
175°	393	385	393	385	393	38
180°	386	386	386	386	386	



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

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°	10.1	9.9	9.9	10.0	9.9	9.8	9.8	9.9	9.9	10.2	10.0
90°	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5	18.8	19.5	17.2
92.5°	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8	90.7	120.2	132.3
95°	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5	376.1	463.6	412.8
97.5°	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6	768.7	718.5	526.0
100°	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8	894.4	740.4	500.4
102.5°	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9	900.7	699.7	462.8
105°	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4	853.0	628.6	416.7
107.5°	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8	769.5	565.7	387.3
110°	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0	716.9	530.1	376.1



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8	671.3	506.3	369.8
115°	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7	616.1	480.8	367.5
117.5°	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9	582.8	465.8	368.9
120°	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5	565.3	458.9	371.4
122.5°	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4	550.9	454.6	375.7
125°	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5	532.4	448.8	382.3
127.5°	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7	516.2	446.0	389.8
130°	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8	507.4	444.1	394.8
132.5°	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1	499.3	443.4	398.6
135°	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0	488.6	442.5	404.2
137.5°	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8	479.4	440.8	408.0
140°	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5	473.8	440.2	410.5
142.5°	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9	468.8	438.9	412.3
145°	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1	462.1	437.0	413.6
147.5°	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6	455.5	434.1	413.6
150°	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1	451.1	431.6	413.6
152.5°	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2	446.1	428.4	411.7
155°	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9	438.6	423.0	409.7
157.5°	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9	430.2	418.1	407.0
160°	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7	424.5	414.4	405.8
162.5°	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2	418.9	410.6	403.3
165°	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5	411.2	405.0	399.5
167.5°	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0	403.9	399.4	395.8
170°	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4	399.5	395.6	393.3
172.5°	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4	395.1	392.5	391.4
175°	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7	390.1	388.6	388.6
177.5°	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5	386.8	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

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°	9.9	9.6	8.6	7.5	6.8	5.8	5.5	4.8	4.7	5.0	5.3
90°	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6	3.1	4.7	7.0
92.5°	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7	14.4	21.0	27.1
95°	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6	28.9	37.5	50.8
97.5°	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3	46.1	52.9	64.4
100°	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9	58.6	64.1	75.1
102.5°	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0	72.4	77.2	87.6
105°	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7	93.0	97.7	107.1
107.5°	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6	114.0	118.5	127.7
110°	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7	129.0	132.9	141.5



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4	142.8	146.7	155.3
115°	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3	163.4	168.1	175.9
117.5°	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1	183.7	187.6	194.8
120°	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9	196.2	200.1	208.0
122.5°	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8	208.1	212.0	220.5
125°	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8	224.4	229.1	237.7
127.5°	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8	238.1	243.9	252.7
130°	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9	246.3	253.3	262.7
132.5°	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2	253.2	260.8	272.1
135°	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1	264.3	272.9	284.6
137.5°	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4	274.7	283.2	295.7
140°	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3	282.2	290.1	302.6
142.5°	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8	289.1	297.6	308.8
145°	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9	300.2	307.3	319.0
147.5°	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1	311.5	318.4	328.5
150°	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2	319.0	325.2	335.4
152.5°	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3	326.5	332.7	341.7
155°	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5	338.5	343.2	351.0
157.5°	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2	348.8	352.6	359.5
160°	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7	355.7	358.9	365.1
162.5°	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4	361.4	363.9	368.9
165°	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8	369.0	370.6	374.5
167.5°	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2	375.3	376.1	379.0
170°	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0	378.4	379.2	381.5
172.5°	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5	381.5	381.7	383.4
175°	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4	384.7	383.9	385.4
177.5°	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8	386.2	385.6	386.2
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-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°	5.4	5.9	6.2	6.9	7.2	7.8	7.7	7.5	7.6	8.3	7.9
90°	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5	20.3	21.1	22.7
92.5°	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8	52.2	46.1	42.1
95°	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5	190.8	149.3	121.2
97.5°	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6	562.0	461.1	367.6
100°	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8	858.4	767.0	655.9
102.5°	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9	992.9	939.6	869.2
105°	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4	1094.5	1109.4	1089.1
107.5°	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8	1081.7	1150.2	1178.0
110°	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0	1039.8	1138.3	1193.1



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8	984.8	1095.2	1165.5
115°	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7	896.7	1011.7	1096.9
117.5°	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9	822.3	925.5	1012.0
120°	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5	781.0	874.9	953.8
122.5°	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4	747.9	834.8	908.2
125°	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5	706.8	781.8	844.4
127.5°	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7	670.6	738.4	795.3
130°	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8	648.1	711.5	764.6
132.5°	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1	626.9	685.8	736.5
135°	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0	596.5	647.3	691.9
137.5°	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8	567.3	611.1	649.7
140°	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5	550.4	587.9	621.5
142.5°	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9	534.1	566.7	595.9
145°	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1	512.9	537.9	560.6
147.5°	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6	497.1	517.3	533.4
150°	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1	487.1	503.5	518.3
152.5°	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2	477.7	492.2	504.6
155°	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9	464.4	476.1	485.5
157.5°	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9	451.4	460.5	467.8
160°	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7	443.3	451.1	456.6
162.5°	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2	434.5	441.7	446.6
165°	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5	422.2	427.7	431.6
167.5°	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0	412.6	415.8	418.6
170°	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4	405.8	408.9	410.5
172.5°	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4	400.1	402.6	403.6
175°	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7	392.5	394.0	394.0
177.5°	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5	388.1	388.7	388.7
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-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°	7.7	7.9	7.9	7.5	7.9	7.9	7.7	7.9	8.3	7.6	7.5
90°	21.9	22.7	23.5	22.7	23.5	22.7	21.9	22.7	21.1	20.3	19.5
92.5°	40.7	38.3	39.1	37.7	39.1	38.3	40.7	42.1	46.1	52.2	65.8
95°	106.3	99.3	93.8	90.7	93.8	99.3	106.3	121.2	149.3	190.8	281.5
97.5°	309.9	274.7	253.6	246.9	253.6	274.7	309.9	367.6	461.1	562.0	701.6
100°	577.0	519.9	489.4	490.2	489.4	519.9	577.0	655.9	767.0	858.4	921.8
102.5°	807.8	762.6	737.1	719.1	737.1	762.6	807.8	869.2	939.6	992.9	994.9
105°	1053.1	1023.4	998.4	994.5	998.4	1023.4	1053.1	1089.1	1109.4	1094.5	1016.4
107.5°	1178.7	1168.7	1160.2	1153.0	1160.2	1168.7	1178.7	1178.0	1150.2	1081.7	954.8
110°	1214.9	1221.2	1219.6	1218.1	1219.6	1221.2	1214.9	1193.1	1138.3	1039.8	896.0



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1205.6	1225.0	1230.9	1231.2	1230.9	1225.0	1205.6	1165.5	1095.2	984.8	837.8
115°	1155.5	1189.9	1205.6	1209.5	1205.6	1189.9	1155.5	1096.9	1011.7	896.7	760.7
117.5°	1073.1	1112.5	1135.0	1140.4	1135.0	1112.5	1073.1	1012.0	925.5	822.3	704.9
120°	1015.6	1059.4	1078.1	1082.8	1078.1	1059.4	1015.6	953.8	874.9	781.0	675.5
122.5°	963.0	1002.4	1023.1	1029.0	1023.1	1002.4	963.0	908.2	834.8	747.9	652.4
125°	894.4	928.8	948.3	953.8	948.3	928.8	894.4	844.4	781.8	706.8	621.5
127.5°	839.8	869.2	886.9	891.9	886.9	869.2	839.8	795.3	738.4	670.6	594.7
130°	806.1	834.2	850.6	856.9	850.6	834.2	806.1	764.6	711.5	648.1	577.8
132.5°	775.4	803.6	818.1	822.5	818.1	803.6	775.4	736.5	685.8	626.9	562.1
135°	730.2	753.7	767.7	773.2	767.7	753.7	730.2	691.9	647.3	596.5	541.0
137.5°	681.9	705.7	717.6	721.2	717.6	705.7	681.9	649.7	611.1	567.3	521.8
140°	651.3	673.1	685.7	684.9	685.7	673.1	651.3	621.5	587.9	550.4	510.5
142.5°	621.2	640.6	651.9	651.1	651.9	640.6	621.2	595.9	566.7	534.1	499.9
145°	580.1	596.5	602.8	604.3	602.8	596.5	580.1	560.6	537.9	512.9	487.1
147.5°	548.2	559.3	565.3	565.9	565.3	559.3	548.2	533.4	517.3	497.1	476.6
150°	530.1	538.7	543.4	543.4	543.4	538.7	530.1	518.3	503.5	487.1	469.1
152.5°	513.8	521.8	524.6	524.6	524.6	521.8	513.8	504.6	492.2	477.7	462.2
155°	492.5	498.8	500.4	501.1	500.4	498.8	492.5	485.5	476.1	464.4	451.9
157.5°	473.9	478.6	479.9	479.7	479.9	478.6	473.9	467.8	460.5	451.4	440.9
160°	462.1	466.7	466.7	466.0	466.7	466.7	462.1	456.6	451.1	443.3	434.7
162.5°	450.2	454.2	454.2	453.5	454.2	454.2	450.2	446.6	441.7	434.5	427.2
165°	434.7	437.8	437.0	437.0	437.0	437.8	434.7	431.6	427.7	422.2	417.5
167.5°	420.0	422.2	421.4	421.4	421.4	422.2	420.0	418.6	415.8	412.6	409.0
170°	411.2	412.8	412.0	412.0	412.0	412.8	411.2	410.5	408.9	405.8	403.4
172.5°	403.7	405.3	403.9	403.3	403.9	405.3	403.7	403.6	402.6	400.1	398.4
175°	394.0	394.8	394.0	393.3	394.0	394.8	394.0	394.0	394.0	392.5	391.7
177.5°	388.1	388.7	387.5	387.5	387.5	388.7	388.1	388.7	388.7	388.1	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-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°	7.7	7.8	7.2	6.9	6.2	5.9	5.4	5.3	5.0	4.7	4.8
90°	18.8	19.5	17.2	14.9	12.5	10.2	8.6	7.0	4.7	3.1	1.6
92.5°	90.7	120.2	132.3	99.3	65.7	45.2	33.6	27.1	21.0	14.4	9.7
95°	376.1	463.6	412.8	284.6	168.1	101.6	71.1	50.8	37.5	28.9	26.6
97.5°	768.7	718.5	526.0	312.3	180.9	117.4	84.4	64.4	52.9	46.1	45.3
100°	894.4	740.4	500.4	294.7	179.0	124.3	93.8	75.1	64.1	58.6	57.9
102.5°	900.7	699.7	462.8	279.7	181.5	132.4	104.5	87.6	77.2	72.4	71.0
105°	853.0	628.6	416.7	268.9	188.4	146.2	122.0	107.1	97.7	93.0	90.7
107.5°	769.5	565.7	387.3	268.2	201.2	164.2	141.7	127.7	118.5	114.0	111.6
110°	716.9	530.1	376.1	271.3	211.9	176.7	154.8	141.5	132.9	129.0	126.7



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	671.3	506.3	369.8	277.5	222.5	189.8	168.6	155.3	146.7	142.8	140.4
115°	616.1	480.8	367.5	287.7	240.0	210.3	189.2	175.9	168.1	163.4	160.3
117.5°	582.8	465.8	368.9	301.2	258.6	229.2	209.7	194.8	187.6	183.7	180.1
120°	565.3	458.9	371.4	311.2	270.5	242.4	222.8	208.0	200.1	196.2	193.9
122.5°	550.9	454.6	375.7	320.5	283.0	255.5	234.7	220.5	212.0	208.1	205.8
125°	532.4	448.8	382.3	335.4	301.0	273.6	252.5	237.7	229.1	224.4	222.8
127.5°	516.2	446.0	389.8	347.6	316.6	290.2	269.1	252.7	243.9	238.1	235.8
130°	507.4	444.1	394.8	355.7	326.0	300.2	279.1	262.7	253.3	246.3	243.9
132.5°	499.3	443.4	398.6	363.2	334.1	309.0	288.5	272.1	260.8	253.2	250.2
135°	488.6	442.5	404.2	372.9	346.3	322.1	301.0	284.6	272.9	264.3	261.1
137.5°	479.4	440.8	408.0	380.1	354.8	331.5	311.9	295.7	283.2	274.7	271.4
140°	473.8	440.2	410.5	383.9	360.4	337.7	318.2	302.6	290.1	282.2	278.3
142.5°	468.8	438.9	412.3	387.6	364.8	342.7	324.5	308.8	297.6	289.1	285.8
145°	462.1	437.0	413.6	391.7	370.6	350.3	332.3	319.0	307.3	300.2	297.9
147.5°	455.5	434.1	413.6	394.2	375.3	356.7	341.3	328.5	318.4	311.5	310.1
150°	451.1	431.6	413.6	394.8	378.4	360.4	346.3	335.4	325.2	319.0	318.2
152.5°	446.1	428.4	411.7	396.1	380.3	364.8	351.3	341.7	332.7	326.5	326.3
155°	438.6	423.0	409.7	396.4	383.9	370.6	359.6	351.0	343.2	338.5	338.5
157.5°	430.2	418.1	407.0	397.2	385.9	375.3	366.8	359.5	352.6	348.8	348.2
160°	424.5	414.4	405.8	397.2	387.8	378.4	370.6	365.1	358.9	355.7	355.7
162.5°	418.9	410.6	403.3	396.5	388.4	380.3	373.7	368.9	363.9	361.4	361.4
165°	411.2	405.0	399.5	394.8	389.3	383.1	377.6	374.5	370.6	369.0	369.8
167.5°	403.9	399.4	395.8	393.6	389.2	384.7	381.2	379.0	376.1	375.3	376.2
170°	399.5	395.6	393.3	391.7	388.6	384.7	383.1	381.5	379.2	378.4	380.0
172.5°	395.1	392.5	391.4	391.1	388.6	385.3	384.3	383.4	381.7	381.5	382.5
175°	390.1	388.6	388.6	389.3	387.8	386.2	385.4	385.4	383.9	384.7	385.4
177.5°	386.8	386.2	386.8	388.1	386.8	386.2	386.2	386.2	385.6	386.2	386.8
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-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°	5.5	5.8	6.8	7.5	8.6	9.6	9.9	10.0	10.2	9.9	9.9
90°	3.1	4.7	7.0	8.6	10.2	12.5	14.9	17.2	19.5	18.8	19.5
92.5°	14.4	21.0	27.1	33.6	45.2	65.7	99.3	132.3	120.2	90.7	65.8
95°	28.9	37.5	50.8	71.1	101.6	168.1	284.6	412.8	463.6	376.1	281.5
97.5°	46.1	52.9	64.4	84.4	117.4	180.9	312.3	526.0	718.5	768.7	701.6
100°	58.6	64.1	75.1	93.8	124.3	179.0	294.7	500.4	740.4	894.4	921.8
102.5°	72.4	77.2	87.6	104.5	132.4	181.5	279.7	462.8	699.7	900.7	994.9
105°	93.0	97.7	107.1	122.0	146.2	188.4	268.9	416.7	628.6	853.0	1016.4
107.5°	114.0	118.5	127.7	141.7	164.2	201.2	268.2	387.3	565.7	769.5	954.8
110°	129.0	132.9	141.5	154.8	176.7	211.9	271.3	376.1	530.1	716.9	896.0



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	142.8	146.7	155.3	168.6	189.8	222.5	277.5	369.8	506.3	671.3	837.8
115°	163.4	168.1	175.9	189.2	210.3	240.0	287.7	367.5	480.8	616.1	760.7
117.5°	183.7	187.6	194.8	209.7	229.2	258.6	301.2	368.9	465.8	582.8	704.9
120°	196.2	200.1	208.0	222.8	242.4	270.5	311.2	371.4	458.9	565.3	675.5
122.5°	208.1	212.0	220.5	234.7	255.5	283.0	320.5	375.7	454.6	550.9	652.4
125°	224.4	229.1	237.7	252.5	273.6	301.0	335.4	382.3	448.8	532.4	621.5
127.5°	238.1	243.9	252.7	269.1	290.2	316.6	347.6	389.8	446.0	516.2	594.7
130°	246.3	253.3	262.7	279.1	300.2	326.0	355.7	394.8	444.1	507.4	577.8
132.5°	253.2	260.8	272.1	288.5	309.0	334.1	363.2	398.6	443.4	499.3	562.1
135°	264.3	272.9	284.6	301.0	322.1	346.3	372.9	404.2	442.5	488.6	541.0
137.5°	274.7	283.2	295.7	311.9	331.5	354.8	380.1	408.0	440.8	479.4	521.8
140°	282.2	290.1	302.6	318.2	337.7	360.4	383.9	410.5	440.2	473.8	510.5
142.5°	289.1	297.6	308.8	324.5	342.7	364.8	387.6	412.3	438.9	468.8	499.9
145°	300.2	307.3	319.0	332.3	350.3	370.6	391.7	413.6	437.0	462.1	487.1
147.5°	311.5	318.4	328.5	341.3	356.7	375.3	394.2	413.6	434.1	455.5	476.6
150°	319.0	325.2	335.4	346.3	360.4	378.4	394.8	413.6	431.6	451.1	469.1
152.5°	326.5	332.7	341.7	351.3	364.8	380.3	396.1	411.7	428.4	446.1	462.2
155°	338.5	343.2	351.0	359.6	370.6	383.9	396.4	409.7	423.0	438.6	451.9
157.5°	348.8	352.6	359.5	366.8	375.3	385.9	397.2	407.0	418.1	430.2	440.9
160°	355.7	358.9	365.1	370.6	378.4	387.8	397.2	405.8	414.4	424.5	434.7
162.5°	361.4	363.9	368.9	373.7	380.3	388.4	396.5	403.3	410.6	418.9	427.2
165°	369.0	370.6	374.5	377.6	383.1	389.3	394.8	399.5	405.0	411.2	417.5
167.5°	375.3	376.1	379.0	381.2	384.7	389.2	393.6	395.8	399.4	403.9	409.0
170°	378.4	379.2	381.5	383.1	384.7	388.6	391.7	393.3	395.6	399.5	403.4
172.5°	381.5	381.7	383.4	384.3	385.3	388.6	391.1	391.4	392.5	395.1	398.4
175°	384.7	383.9	385.4	385.4	386.2	387.8	389.3	388.6	388.6	390.1	391.7
177.5°	386.2	385.6	386.2	386.2	386.2	386.8	388.1	386.8	386.2	386.8	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2	386.2



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

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°	9.8	9.8	9.9	10.0	9.9	9.9	10.1
90°	20.3	21.1	22.7	21.9	22.7	23.5	22.7
92.5°	52.2	46.1	42.1	40.7	38.3	39.1	37.7
95°	190.8	149.3	121.2	106.3	99.3	93.8	90.7
97.5°	562.0	461.1	367.6	309.9	274.7	253.6	246.9
100°	858.4	767.0	655.9	577.0	519.9	489.4	490.2
102.5°	992.9	939.6	869.2	807.8	762.6	737.1	719.1
105°	1094.5	1109.4	1089.1	1053.1	1023.4	998.4	994.5
107.5°	1081.7	1150.2	1178.0	1178.7	1168.7	1160.2	1153.0
110°	1039.8	1138.3	1193.1	1214.9	1221.2	1219.6	1218.1



TEST NUMBER: P331885

CATALOG NUMBER: S123DIP-S340D805U835-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	984.8	1095.2	1165.5	1205.6	1225.0	1230.9	1231.2
115°	896.7	1011.7	1096.9	1155.5	1189.9	1205.6	1209.5
117.5°	822.3	925.5	1012.0	1073.1	1112.5	1135.0	1140.4
120°	781.0	874.9	953.8	1015.6	1059.4	1078.1	1082.8
122.5°	747.9	834.8	908.2	963.0	1002.4	1023.1	1029.0
125°	706.8	781.8	844.4	894.4	928.8	948.3	953.8
127.5°	670.6	738.4	795.3	839.8	869.2	886.9	891.9
130°	648.1	711.5	764.6	806.1	834.2	850.6	856.9
132.5°	626.9	685.8	736.5	775.4	803.6	818.1	822.5
135°	596.5	647.3	691.9	730.2	753.7	767.7	773.2
137.5°	567.3	611.1	649.7	681.9	705.7	717.6	721.2
140°	550.4	587.9	621.5	651.3	673.1	685.7	684.9
142.5°	534.1	566.7	595.9	621.2	640.6	651.9	651.1
145°	512.9	537.9	560.6	580.1	596.5	602.8	604.3
147.5°	497.1	517.3	533.4	548.2	559.3	565.3	565.9
150°	487.1	503.5	518.3	530.1	538.7	543.4	543.4
152.5°	477.7	492.2	504.6	513.8	521.8	524.6	524.6
155°	464.4	476.1	485.5	492.5	498.8	500.4	501.1
157.5°	451.4	460.5	467.8	473.9	478.6	479.9	479.7
160°	443.3	451.1	456.6	462.1	466.7	466.7	466.0
162.5°	434.5	441.7	446.6	450.2	454.2	454.2	453.5
165°	422.2	427.7	431.6	434.7	437.8	437.0	437.0
167.5°	412.6	415.8	418.6	420.0	422.2	421.4	421.4
170°	405.8	408.9	410.5	411.2	412.8	412.0	412.0
172.5°	400.1	402.6	403.6	403.7	405.3	403.9	403.3
175°	392.5	394.0	394.0	394.0	394.8	394.0	393.3
177.5°	388.1	388.7	388.7	388.1	388.7	387.5	387.5
180°	386.2	386.2	386.2	386.2	386.2	386.2	386.2

(END OF REPORT)