

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: P331902-927

Luminaire Tested: **S123DIP-S340D1195U927-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331902-927
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-S340D1195U927-4F0-1E-UDD-A1
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1195 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4399.5 lumens
Efficiency: N/A
Efficacy: 104.3 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

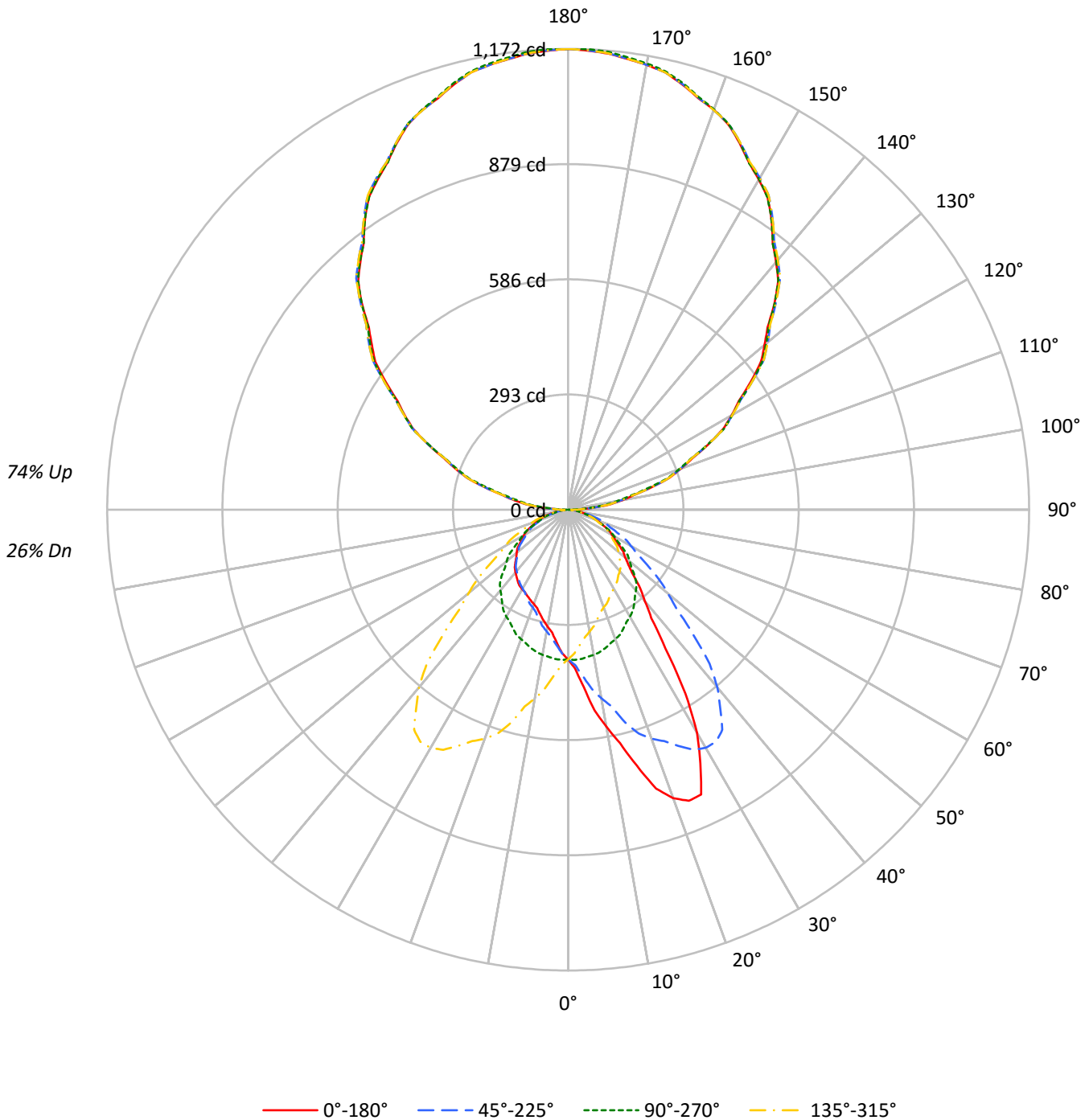
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

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	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	21	20	18	14
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	18	16	14	11
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	10
8	51	39	32	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4100	4100	4100	4100
5°	4889	4118	3649	4118
10°	6120	4098	3296	4098
15°	7506	4063	3069	4063
20°	8942	4013	2922	4013
25°	9495	3950	2888	3950
30°	8139	3904	2903	3904
35°	5660	3840	2934	3840
40°	4263	3763	2925	3763
45°	3539	3649	2888	3649
50°	3170	3418	2862	3418
55°	2965	3170	2826	3170
60°	2781	2908	2796	2908
65°	2613	2651	2707	2651
70°	2452	2357	2578	2357
75°	2196	2067	2366	2067
80°	1922	1692	2039	1692
85°	1507	1235	1371	1235



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.9
10°-20°	120.3	2.7
20°-30°	201.9	4.6
30°-40°	228.6	5.2
40°-50°	205.0	4.7
50°-60°	165.5	3.8
60°-70°	115.3	2.6
70°-80°	60.6	1.4
80°-90°	18.3	0.4
90°-100°	76.3	1.7
100°-110°	228.5	5.2
110°-120°	388.6	8.8
120°-130°	511.1	11.6
130°-140°	574.5	13.1
140°-150°	564.7	12.8
150°-160°	475.4	10.8
160°-170°	316.5	7.2
170°-180°	110.8	2.5
0°-30°	359.8	8.2
0°-40°	588.4	13.4
0°-60°	958.9	21.8
0°-90°	1153.1	26.2
90°-120°	693.4	15.8
90°-150°	2343.7	53.3
90°-180°	3246.0	73.8
0°-180°	4399.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	28	1	28	1	28	14
95°	72	54	72	54	72	74
105°	219	207	219	207	219	232
115°	392	391	392	391	392	388
125°	566	572	566	572	566	506
135°	742	743	742	743	742	570
145°	901	901	901	901	901	562
155°	1030	1032	1030	1032	1030	474
165°	1120	1124	1120	1124	1120	316
175°	1164	1169	1164	1169	1164	111
180°	1172	1172	1172	1172	1172	



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	10.0	9.6	9.7	9.7	9.5	9.5	9.5	9.5	9.4	9.4	9.0
90°	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8	22.9	22.1	19.4
92.5°	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7	36.0	35.3	33.8
95°	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7	68.9	68.1	66.5
97.5°	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4	107.5	106.5	105.4
100°	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5	135.9	135.3	134.3
102.5°	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9	168.3	167.7	166.4
105°	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2	217.2	217.2	215.4
107.5°	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5	268.9	268.2	267.4
110°	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4	303.6	302.9	302.4



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4	338.4	337.4	337.3
115°	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5	392.3	392.1	392.5
117.5°	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2	446.2	446.2	446.8
120°	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9	482.1	482.3	483.3
122.5°	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1	518.6	519.1	519.7
125°	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8	572.6	573.5	573.9
127.5°	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9	626.1	627.2	627.6
130°	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1	661.0	661.8	662.4
132.5°	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4	695.4	696.4	696.8
135°	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8	746.6	747.3	747.6
137.5°	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9	796.8	797.6	797.1
140°	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9	829.1	829.3	829.1
142.5°	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8	860.0	860.2	859.8
145°	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3	905.5	905.7	905.1
147.5°	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7	974.7	974.7	974.3
152.5°	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9	998.6	998.3	998.1
155°	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4	1033.6	1032.7	1032.5
157.5°	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8	1064.0	1063.1	1063.0
160°	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5	1082.5	1081.5	1081.5
162.5°	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2	1100.2	1099.2	1099.0
165°	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6	1122.3	1121.1	1121.1
167.5°	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1	1138.9
170°	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7	1148.7
172.5°	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4	1158.1	1156.8	1156.8
175°	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7	1166.5	1165.2	1165.2
177.5°	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5	1170.4	1169.5	1169.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	8.8	8.4	7.4	6.4	5.7	4.8	4.4	3.7	3.8	4.3	4.5
90°	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0	2.9	5.0	7.1
92.5°	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3	23.7	25.0	26.5
95°	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3	55.8	57.2	58.6
97.5°	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5	97.5	98.6	99.7
100°	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2	126.4	127.6	128.9
102.5°	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3	159.1	159.8	160.5
105°	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1	207.5	207.9	208.3
107.5°	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8	264.0	264.3	264.5
110°	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1	299.5	299.9	300.4



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0	336.2	336.4	336.7
115°	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2	391.8	392.4	393.0
117.5°	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8	447.2	447.6	448.0
120°	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4	482.6	483.9	485.1
122.5°	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5	518.3	519.3	520.1
125°	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5	573.1	573.7	574.3
127.5°	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3	624.6	625.9	627.2
130°	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2	658.8	660.4	662.1
132.5°	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0	692.7	694.3	695.9
135°	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8	744.0	745.2	746.5
137.5°	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7	791.6	792.7	793.7
140°	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8	824.8	825.9	826.9
142.5°	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0	855.0	856.0	857.1
145°	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1	901.5	901.9	902.3
147.5°	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3	943.1	943.8	944.5
150°	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1	971.5	971.8	972.2
152.5°	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6	995.2	995.8	996.3
155°	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4	1063.2	1063.0	1062.7
160°	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3	1082.9	1082.5	1082.1
162.5°	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0	1100.4	1099.9	1099.3
165°	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9	1123.2	1122.6	1122.0
167.5°	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1	1141.2	1140.4	1139.6
170°	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4	1151.5	1150.7	1149.9
172.5°	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5	1159.7	1158.8	1158.0
175°	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9	1168.2	1167.3	1166.5
177.5°	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4	1171.8	1171.2	1170.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	4.8	5.4	5.8	6.4	6.8	7.5	7.7	7.5	7.7	8.3	7.8
90°	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8	24.6	25.3	26.0
92.5°	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7	37.3	37.9	38.2
95°	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7	70.6	71.4	71.8
97.5°	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4	109.4	110.4	110.7
100°	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5	137.1	137.8	138.2
102.5°	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9	169.5	170.2	170.4
105°	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2	217.2	217.2	217.5
107.5°	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5	270.2	270.8	271.0
110°	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4	305.3	306.1	306.3



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4	340.4	341.4	341.8
115°	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5	392.7	392.9	392.9
117.5°	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2	446.1	446.1	445.8
120°	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9	481.7	481.5	481.2
122.5°	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1	517.5	517.0	516.4
125°	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8	571.0	570.1	569.3
127.5°	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9	623.8	622.6	621.5
130°	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1	659.3	658.5	657.4
132.5°	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4	693.5	692.4	691.4
135°	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8	744.9	744.1	743.5
137.5°	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9	795.0	794.2	793.4
140°	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9	828.7	828.5	827.7
142.5°	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8	859.6	859.4	858.7
145°	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3	905.1	904.9	904.4
147.5°	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2	948.2	948.2	947.6
150°	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7	974.7	974.7	974.1
152.5°	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9	999.3	999.6	999.3
155°	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4	1035.1	1036.0	1035.7
157.5°	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8	1065.6	1066.5	1066.4
160°	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5	1084.6	1085.6	1085.7
162.5°	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2	1102.2	1103.3	1103.1
165°	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6	1124.7	1126.0	1125.8
167.5°	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1
170°	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4
172.5°	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4	1160.6	1161.9	1161.8
175°	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7	1168.9	1170.1	1170.1
177.5°	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5	1172.4	1173.4	1173.3
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	7.9	8.0	7.9	7.9	7.9	8.0	7.9	7.8	8.3	7.7	7.5
90°	26.4	26.8	27.2	27.6	27.2	26.8	26.4	26.0	25.3	24.6	23.8
92.5°	37.9	37.7	37.4	37.2	37.4	37.7	37.9	38.2	37.9	37.3	36.7
95°	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.4	70.6	69.7
97.5°	110.7	110.6	110.5	110.4	110.5	110.6	110.7	110.7	110.4	109.4	108.4
100°	138.7	139.1	139.5	139.9	139.5	139.1	138.7	138.2	137.8	137.1	136.5
102.5°	170.3	170.2	170.2	170.1	170.2	170.2	170.3	170.4	170.2	169.5	168.9
105°	217.9	218.2	218.6	219.0	218.6	218.2	217.9	217.5	217.2	217.2	217.2
107.5°	270.8	270.5	270.3	270.1	270.3	270.5	270.8	271.0	270.8	270.2	269.5
110°	305.9	305.5	305.1	304.7	305.1	305.5	305.9	306.3	306.1	305.3	304.4



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	341.7	341.7	341.6	341.5	341.6	341.7	341.7	341.8	341.4	340.4	339.4
115°	392.7	392.5	392.3	392.1	392.3	392.5	392.7	392.9	392.9	392.7	392.5
117.5°	445.2	444.6	444.0	443.5	444.0	444.6	445.2	445.8	446.1	446.1	446.2
120°	480.8	480.4	480.0	479.5	480.0	480.4	480.8	481.2	481.5	481.7	481.9
122.5°	515.9	515.3	514.7	514.1	514.7	515.3	515.9	516.4	517.0	517.5	518.1
125°	568.5	567.7	566.9	566.1	566.9	567.7	568.5	569.3	570.1	571.0	571.8
127.5°	620.6	619.6	618.7	617.8	618.7	619.6	620.6	621.5	622.6	623.8	624.9
130°	655.9	654.5	653.1	651.6	653.1	654.5	655.9	657.4	658.5	659.3	660.1
132.5°	690.3	689.2	688.1	687.0	688.1	689.2	690.3	691.4	692.4	693.5	694.4
135°	743.1	742.7	742.3	741.9	742.3	742.7	743.1	743.5	744.1	744.9	745.8
137.5°	792.6	791.9	791.1	790.3	791.1	791.9	792.6	793.4	794.2	795.0	795.9
140°	826.2	824.8	823.4	822.0	823.4	824.8	826.2	827.7	828.5	828.7	828.9
142.5°	857.6	856.5	855.5	854.4	855.5	856.5	857.6	858.7	859.4	859.6	859.8
145°	903.6	902.7	901.9	901.1	901.9	902.7	903.6	904.4	904.9	905.1	905.3
147.5°	946.3	945.2	943.9	942.7	943.9	945.2	946.3	947.6	948.2	948.2	948.2
150°	972.9	971.7	970.4	969.2	970.4	971.7	972.9	974.1	974.7	974.7	974.7
152.5°	998.1	997.1	996.0	995.0	996.0	997.1	998.1	999.3	999.6	999.3	998.9
155°	1034.3	1032.8	1031.4	1029.9	1031.4	1032.8	1034.3	1035.7	1036.0	1035.1	1034.4
157.5°	1065.2	1064.1	1063.0	1061.8	1063.0	1064.1	1065.2	1066.4	1066.5	1065.6	1064.8
160°	1084.9	1084.0	1083.2	1082.4	1083.2	1084.0	1084.9	1085.7	1085.6	1084.6	1083.5
162.5°	1101.8	1100.5	1099.2	1097.9	1099.2	1100.5	1101.8	1103.1	1103.3	1102.2	1101.2
165°	1124.4	1123.0	1121.6	1120.1	1121.6	1123.0	1124.4	1125.8	1126.0	1124.7	1123.6
167.5°	1142.9	1141.6	1140.3	1139.1	1140.3	1141.6	1142.9	1144.1	1144.1	1142.9	1141.6
170°	1153.0	1151.5	1150.1	1148.7	1150.1	1151.5	1153.0	1154.4	1154.4	1153.0	1151.5
172.5°	1160.3	1158.9	1157.5	1156.0	1157.5	1158.9	1160.3	1161.8	1161.9	1160.6	1159.4
175°	1168.6	1167.2	1165.8	1164.3	1165.8	1167.2	1168.6	1170.1	1170.1	1168.9	1167.7
177.5°	1172.2	1171.0	1169.9	1168.8	1169.9	1171.0	1172.2	1173.3	1173.4	1172.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	7.7	7.5	6.8	6.4	5.8	5.4	4.8	4.5	4.3	3.8	3.7
90°	22.9	22.1	19.4	16.8	14.1	11.5	9.1	7.1	5.0	2.9	1.0
92.5°	36.0	35.3	33.8	32.3	30.8	29.3	27.8	26.5	25.0	23.7	22.3
95°	68.9	68.1	66.5	64.8	63.2	61.6	60.0	58.6	57.2	55.8	54.3
97.5°	107.5	106.5	105.4	104.3	103.1	101.9	100.7	99.7	98.6	97.5	96.5
100°	135.9	135.3	134.3	133.2	132.2	131.2	130.1	128.9	127.6	126.4	125.2
102.5°	168.3	167.7	166.4	165.0	163.7	162.3	161.3	160.5	159.8	159.1	158.3
105°	217.2	217.2	215.4	213.6	211.7	209.8	208.7	208.3	207.9	207.5	207.1
107.5°	268.9	268.2	267.4	266.7	266.0	265.3	264.7	264.5	264.3	264.0	263.8
110°	303.6	302.9	302.4	302.0	301.6	301.2	300.8	300.4	299.9	299.5	299.1



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	338.4	337.4	337.3	337.2	337.2	337.1	336.9	336.7	336.4	336.2	336.0
115°	392.3	392.1	392.5	392.9	393.3	393.7	393.6	393.0	392.4	391.8	391.2
117.5°	446.2	446.2	446.8	447.3	447.8	448.4	448.4	448.0	447.6	447.2	446.8
120°	482.1	482.3	483.3	484.3	485.4	486.4	486.3	485.1	483.9	482.6	481.4
122.5°	518.6	519.1	519.7	520.1	520.7	521.3	521.1	520.1	519.3	518.3	517.5
125°	572.6	573.5	573.9	574.3	574.6	575.0	575.0	574.3	573.7	573.1	572.5
127.5°	626.1	627.2	627.6	628.0	628.5	629.0	628.5	627.2	625.9	624.6	623.3
130°	661.0	661.8	662.4	663.0	663.6	664.2	663.7	662.1	660.4	658.8	657.2
132.5°	695.4	696.4	696.8	697.3	697.8	698.2	697.6	695.9	694.3	692.7	691.0
135°	746.6	747.3	747.6	747.8	748.0	748.2	747.7	746.5	745.2	744.0	742.8
137.5°	796.8	797.6	797.1	796.5	796.1	795.5	794.7	793.7	792.7	791.6	790.7
140°	829.1	829.3	829.1	828.9	828.7	828.5	827.8	826.9	825.9	824.8	823.8
142.5°	860.0	860.2	859.8	859.5	859.1	858.7	858.1	857.1	856.0	855.0	854.0
145°	905.5	905.7	905.1	904.4	903.9	903.2	902.7	902.3	901.9	901.5	901.1
147.5°	948.2	948.2	947.6	947.1	946.5	945.9	945.3	944.5	943.8	943.1	942.3
150°	974.7	974.7	974.3	973.9	973.5	973.1	972.7	972.2	971.8	971.5	971.1
152.5°	998.6	998.3	998.1	997.8	997.5	997.3	996.9	996.3	995.8	995.2	994.6
155°	1033.6	1032.7	1032.5	1032.3	1032.1	1031.9	1031.8	1031.8	1031.8	1031.8	1031.8
157.5°	1064.0	1063.1	1063.0	1062.8	1062.6	1062.4	1062.5	1062.7	1063.0	1063.2	1063.4
160°	1082.5	1081.5	1081.5	1081.5	1081.5	1081.5	1081.7	1082.1	1082.5	1082.9	1083.3
162.5°	1100.2	1099.2	1099.0	1098.8	1098.7	1098.5	1098.8	1099.3	1099.9	1100.4	1101.0
165°	1122.3	1121.1	1121.1	1121.1	1121.1	1121.1	1121.4	1122.0	1122.6	1123.2	1123.9
167.5°	1140.3	1139.1	1138.9	1138.8	1138.6	1138.4	1138.8	1139.6	1140.4	1141.2	1142.1
170°	1150.1	1148.7	1148.7	1148.7	1148.7	1148.7	1149.1	1149.9	1150.7	1151.5	1152.4
172.5°	1158.1	1156.8	1156.8	1156.8	1156.8	1156.8	1157.2	1158.0	1158.8	1159.7	1160.5
175°	1166.5	1165.2	1165.2	1165.2	1165.2	1165.2	1165.7	1166.5	1167.3	1168.2	1168.9
177.5°	1170.4	1169.5	1169.5	1169.5	1169.5	1169.5	1169.8	1170.4	1171.2	1171.8	1172.4
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.4	4.8	5.7	6.4	7.4	8.4	8.8	9.0	9.4	9.4	9.5
90°	2.9	5.0	7.1	9.1	11.5	14.1	16.8	19.4	22.1	22.9	23.8
92.5°	23.7	25.0	26.5	27.8	29.3	30.8	32.3	33.8	35.3	36.0	36.7
95°	55.8	57.2	58.6	60.0	61.6	63.2	64.8	66.5	68.1	68.9	69.7
97.5°	97.5	98.6	99.7	100.7	101.9	103.1	104.3	105.4	106.5	107.5	108.4
100°	126.4	127.6	128.9	130.1	131.2	132.2	133.2	134.3	135.3	135.9	136.5
102.5°	159.1	159.8	160.5	161.3	162.3	163.7	165.0	166.4	167.7	168.3	168.9
105°	207.5	207.9	208.3	208.7	209.8	211.7	213.6	215.4	217.2	217.2	217.2
107.5°	264.0	264.3	264.5	264.7	265.3	266.0	266.7	267.4	268.2	268.9	269.5
110°	299.5	299.9	300.4	300.8	301.2	301.6	302.0	302.4	302.9	303.6	304.4



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	336.2	336.4	336.7	336.9	337.1	337.2	337.2	337.3	337.4	338.4	339.4
115°	391.8	392.4	393.0	393.6	393.7	393.3	392.9	392.5	392.1	392.3	392.5
117.5°	447.2	447.6	448.0	448.4	448.4	447.8	447.3	446.8	446.2	446.2	446.2
120°	482.6	483.9	485.1	486.3	486.4	485.4	484.3	483.3	482.3	482.1	481.9
122.5°	518.3	519.3	520.1	521.1	521.3	520.7	520.1	519.7	519.1	518.6	518.1
125°	573.1	573.7	574.3	575.0	575.0	574.6	574.3	573.9	573.5	572.6	571.8
127.5°	624.6	625.9	627.2	628.5	629.0	628.5	628.0	627.6	627.2	626.1	624.9
130°	658.8	660.4	662.1	663.7	664.2	663.6	663.0	662.4	661.8	661.0	660.1
132.5°	692.7	694.3	695.9	697.6	698.2	697.8	697.3	696.8	696.4	695.4	694.4
135°	744.0	745.2	746.5	747.7	748.2	748.0	747.8	747.6	747.3	746.6	745.8
137.5°	791.6	792.7	793.7	794.7	795.5	796.1	796.5	797.1	797.6	796.8	795.9
140°	824.8	825.9	826.9	827.8	828.5	828.7	828.9	829.1	829.3	829.1	828.9
142.5°	855.0	856.0	857.1	858.1	858.7	859.1	859.5	859.8	860.2	860.0	859.8
145°	901.5	901.9	902.3	902.7	903.2	903.9	904.4	905.1	905.7	905.5	905.3
147.5°	943.1	943.8	944.5	945.3	945.9	946.5	947.1	947.6	948.2	948.2	948.2
150°	971.5	971.8	972.2	972.7	973.1	973.5	973.9	974.3	974.7	974.7	974.7
152.5°	995.2	995.8	996.3	996.9	997.3	997.5	997.8	998.1	998.3	998.6	998.9
155°	1031.8	1031.8	1031.8	1031.8	1031.9	1032.1	1032.3	1032.5	1032.7	1033.6	1034.4
157.5°	1063.2	1063.0	1062.7	1062.5	1062.4	1062.6	1062.8	1063.0	1063.1	1064.0	1064.8
160°	1082.9	1082.5	1082.1	1081.7	1081.5	1081.5	1081.5	1081.5	1081.5	1082.5	1083.5
162.5°	1100.4	1099.9	1099.3	1098.8	1098.5	1098.7	1098.8	1099.0	1099.2	1100.2	1101.2
165°	1123.2	1122.6	1122.0	1121.4	1121.1	1121.1	1121.1	1121.1	1121.1	1122.3	1123.6
167.5°	1141.2	1140.4	1139.6	1138.8	1138.4	1138.6	1138.8	1138.9	1139.1	1140.3	1141.6
170°	1151.5	1150.7	1149.9	1149.1	1148.7	1148.7	1148.7	1148.7	1148.7	1150.1	1151.5
172.5°	1159.7	1158.8	1158.0	1157.2	1156.8	1156.8	1156.8	1156.8	1156.8	1158.1	1159.4
175°	1168.2	1167.3	1166.5	1165.7	1165.2	1165.2	1165.2	1165.2	1165.2	1166.5	1167.7
177.5°	1171.8	1171.2	1170.4	1169.8	1169.5	1169.5	1169.5	1169.5	1169.5	1170.4	1171.5
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	9.5	9.5	9.5	9.7	9.7	9.6	10.0
90°	24.6	25.3	26.0	26.4	26.8	27.2	27.6
92.5°	37.3	37.9	38.2	37.9	37.7	37.4	37.2
95°	70.6	71.4	71.8	71.8	71.8	71.8	71.8
97.5°	109.4	110.4	110.7	110.7	110.6	110.5	110.4
100°	137.1	137.8	138.2	138.7	139.1	139.5	139.9
102.5°	169.5	170.2	170.4	170.3	170.2	170.2	170.1
105°	217.2	217.2	217.5	217.9	218.2	218.6	219.0
107.5°	270.2	270.8	271.0	270.8	270.5	270.3	270.1
110°	305.3	306.1	306.3	305.9	305.5	305.1	304.7



TEST NUMBER: P331902-927

CATALOG NUMBER: S123DIP-S340D1195U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	340.4	341.4	341.8	341.7	341.7	341.6	341.5
115°	392.7	392.9	392.9	392.7	392.5	392.3	392.1
117.5°	446.1	446.1	445.8	445.2	444.6	444.0	443.5
120°	481.7	481.5	481.2	480.8	480.4	480.0	479.5
122.5°	517.5	517.0	516.4	515.9	515.3	514.7	514.1
125°	571.0	570.1	569.3	568.5	567.7	566.9	566.1
127.5°	623.8	622.6	621.5	620.6	619.6	618.7	617.8
130°	659.3	658.5	657.4	655.9	654.5	653.1	651.6
132.5°	693.5	692.4	691.4	690.3	689.2	688.1	687.0
135°	744.9	744.1	743.5	743.1	742.7	742.3	741.9
137.5°	795.0	794.2	793.4	792.6	791.9	791.1	790.3
140°	828.7	828.5	827.7	826.2	824.8	823.4	822.0
142.5°	859.6	859.4	858.7	857.6	856.5	855.5	854.4
145°	905.1	904.9	904.4	903.6	902.7	901.9	901.1
147.5°	948.2	948.2	947.6	946.3	945.2	943.9	942.7
150°	974.7	974.7	974.1	972.9	971.7	970.4	969.2
152.5°	999.3	999.6	999.3	998.1	997.1	996.0	995.0
155°	1035.1	1036.0	1035.7	1034.3	1032.8	1031.4	1029.9
157.5°	1065.6	1066.5	1066.4	1065.2	1064.1	1063.0	1061.8
160°	1084.6	1085.6	1085.7	1084.9	1084.0	1083.2	1082.4
162.5°	1102.2	1103.3	1103.1	1101.8	1100.5	1099.2	1097.9
165°	1124.7	1126.0	1125.8	1124.4	1123.0	1121.6	1120.1
167.5°	1142.9	1144.1	1144.1	1142.9	1141.6	1140.3	1139.1
170°	1153.0	1154.4	1154.4	1153.0	1151.5	1150.1	1148.7
172.5°	1160.6	1161.9	1161.8	1160.3	1158.9	1157.5	1156.0
175°	1168.9	1170.1	1170.1	1168.6	1167.2	1165.8	1164.3
177.5°	1172.4	1173.4	1173.3	1172.2	1171.0	1169.9	1168.8
180°	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7	1171.7

(END OF REPORT)