

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: P331894-840

Luminaire Tested: **S123DIP-S340D1025U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331894-840
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-S340D1025U840-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5215.9 lumens
Efficiency: N/A
Efficacy: 139.8 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

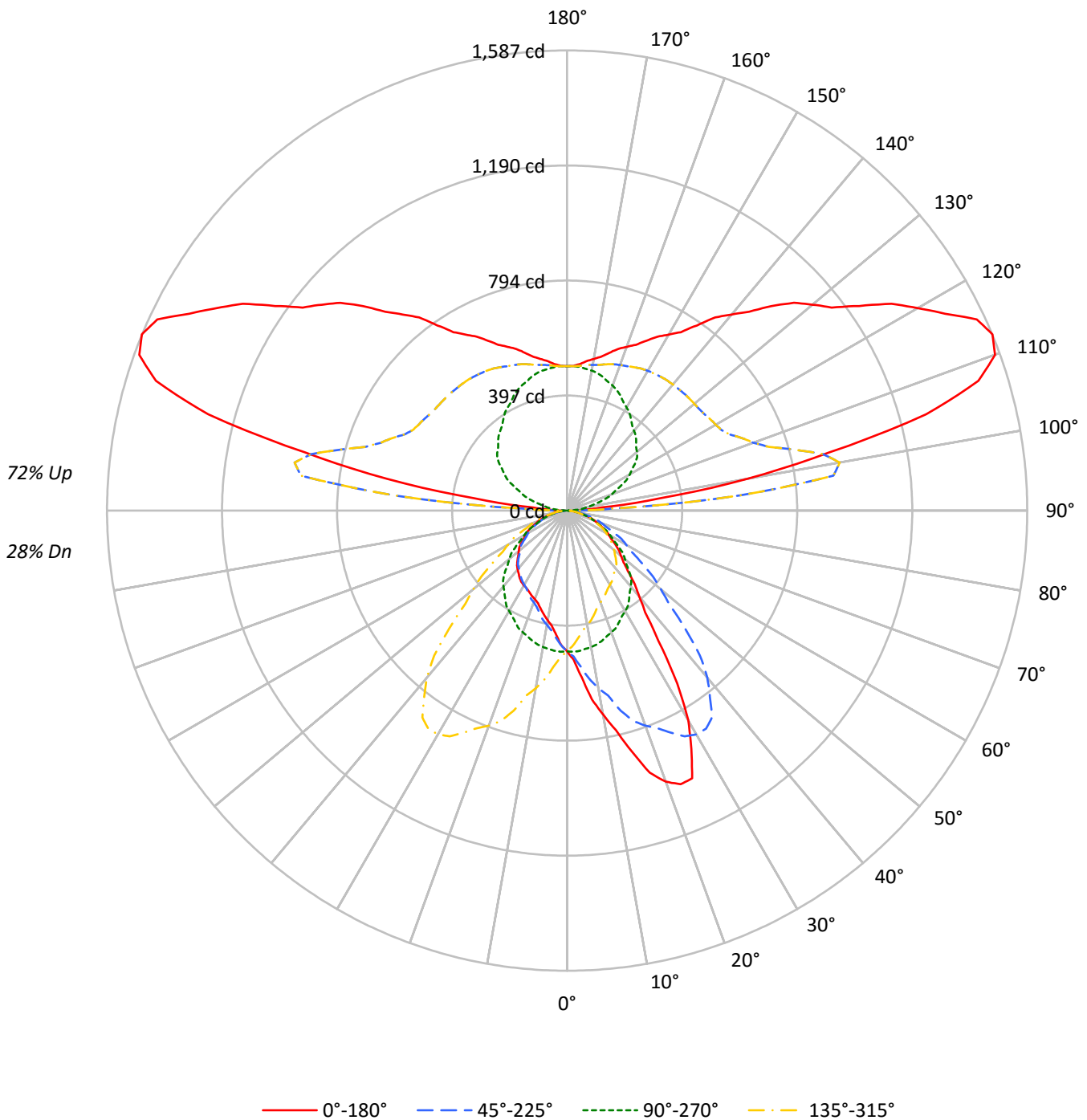
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	59	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	24	28	24	20	22	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5226	5226	5226	5226
5°	6232	5249	4652	5249
10°	7802	5223	4203	5223
15°	9569	5180	3911	5180
20°	11399	5116	3725	5116
25°	12105	5035	3682	5035
30°	10376	4977	3701	4977
35°	7215	4893	3741	4893
40°	5435	4796	3729	4796
45°	4512	4652	3682	4652
50°	4042	4357	3647	4357
55°	3780	4040	3603	4040
60°	3546	3707	3565	3707
65°	3331	3380	3451	3380
70°	3125	3006	3286	3006
75°	2799	2633	3015	2633
80°	2448	2157	2597	2157
85°	1927	1568	1741	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	0.9
10°-20°	153.4	2.9
20°-30°	257.4	4.9
30°-40°	291.5	5.6
40°-50°	261.4	5.0
50°-60°	210.9	4.0
60°-70°	147.0	2.8
70°-80°	77.3	1.5
80°-90°	22.7	0.4
90°-100°	277.1	5.3
100°-110°	784.7	15.0
110°-120°	771.9	14.8
120°-130°	615.7	11.8
130°-140°	485.5	9.3
140°-150°	362.3	6.9
150°-160°	252.5	4.8
160°-170°	148.4	2.8
170°-180°	48.3	0.9
0°-30°	458.6	8.8
0°-40°	750.1	14.4
0°-60°	1222.4	23.4
0°-90°	1469.4	28.2
90°-120°	1833.8	35.2
90°-150°	3297.3	63.2
90°-180°	3746.0	71.8
0°-180°	5215.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	486	486	486	486	486	
5°	577	486	430	486	577	60
15°	859	465	351	465	859	248
25°	1019	424	310	424	1019	447
35°	549	372	285	372	549	357
45°	296	306	242	306	296	235
55°	201	215	192	215	201	181
65°	131	133	136	133	131	130
75°	67	63	72	63	67	72
85°	16	13	14	13	16	19
90°	29	2	29	2	29	16
95°	117	34	117	34	117	211
105°	1282	117	1282	117	1282	1265
115°	1559	207	1559	207	1559	1515
125°	1230	287	1230	287	1230	1115
135°	997	337	997	337	997	773
145°	779	384	779	384	779	496
155°	646	436	646	436	646	301
165°	564	477	564	477	564	161
175°	507	497	507	497	507	49
180°	498	498	498	498	498	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	515.3	514.9	514.0	514.7	513.2	511.2	511.0	509.1	503.6	503.3	501.8
5°	576.8	575.0	574.7	574.5	571.2	566.7	558.3	557.5	546.2	540.7	533.8
7.5°	656.6	657.5	654.1	651.2	641.1	634.4	625.3	613.7	599.9	585.7	576.4
10°	713.8	721.5	712.0	705.3	699.2	687.7	674.3	657.5	640.9	621.4	606.5
12.5°	775.2	778.9	777.0	770.8	761.3	743.8	720.0	701.6	686.2	653.7	640.6
15°	858.7	873.0	863.8	842.7	843.1	826.5	795.5	761.3	743.2	714.7	675.9
17.5°	947.8	949.5	945.6	928.0	916.3	893.2	864.5	831.9	795.2	760.7	719.5
20°	995.1	993.7	985.5	976.3	956.1	938.3	907.0	870.5	823.4	789.5	744.6
22.5°	1021.5	1019.2	1015.2	1007.5	990.8	971.6	943.4	903.6	858.8	812.1	760.2
25°	1019.2	1022.2	1022.7	1020.6	1014.7	1003.2	981.1	949.3	904.6	844.6	790.5
27.5°	927.0	931.3	943.8	955.0	967.5	980.2	978.5	962.7	929.6	877.8	811.6
30°	834.8	825.3	848.6	878.0	898.0	933.3	953.0	954.2	935.6	891.2	826.7
32.5°	706.7	717.1	727.4	763.6	807.3	846.9	886.3	917.9	921.5	891.9	835.6
35°	549.1	562.1	580.9	599.7	646.7	687.2	756.4	816.6	864.5	870.9	836.4
37.5°	442.5	448.9	460.8	479.7	510.4	558.5	611.9	688.0	757.6	809.3	811.5
40°	386.8	388.7	402.0	416.4	441.3	480.9	529.1	596.4	679.6	751.9	782.0
42.5°	345.0	349.1	354.9	368.6	388.5	418.2	463.0	518.7	595.0	678.1	737.0
45°	296.4	301.1	304.7	313.9	328.0	348.0	379.2	430.1	488.2	574.0	653.3
47.5°	264.4	264.7	267.3	274.3	283.9	298.9	321.0	353.7	407.0	476.7	558.1
50°	241.4	245.1	246.1	251.5	259.0	270.0	288.4	316.2	359.9	421.1	495.9
52.5°	225.2	226.3	228.9	232.9	239.4	248.0	264.0	285.7	320.0	372.2	441.0
55°	201.4	201.4	204.0	207.0	210.8	218.5	229.1	245.1	271.2	311.7	368.7
57.5°	179.4	180.6	182.4	183.3	186.5	191.7	200.5	212.7	232.1	263.3	308.5
60°	164.7	166.8	166.5	168.4	171.3	175.3	182.8	192.7	210.1	235.0	273.2
62.5°	151.9	151.8	151.7	154.0	156.7	160.6	165.5	174.0	188.8	211.0	243.4
65°	130.8	130.4	132.0	133.4	134.3	137.1	140.9	148.5	158.3	174.8	200.0
67.5°	112.1	110.7	111.6	112.1	113.7	115.9	119.5	124.1	131.9	145.1	164.1
70°	99.3	98.1	97.9	98.4	99.8	101.4	104.0	108.5	115.7	126.3	140.2
72.5°	86.1	85.3	85.2	86.3	86.9	88.1	89.9	93.9	99.8	107.8	120.7
75°	67.3	67.3	67.3	67.6	68.3	69.2	70.6	72.7	77.2	82.8	91.5
77.5°	50.4	50.4	50.1	50.1	51.1	51.5	51.8	53.8	56.4	60.1	66.4
80°	39.5	38.4	38.8	39.5	40.0	40.2	40.9	41.4	43.5	45.6	50.1
82.5°	29.4	28.4	28.5	29.6	29.7	29.9	30.6	31.2	32.0	33.9	36.4
85°	15.6	15.6	15.8	15.8	16.0	15.8	16.5	16.7	16.7	17.9	19.3
87.5°	11.5	11.3	11.3	11.3	11.3	11.1	11.1	11.1	11.0	11.4	11.0
90°	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2	24.2	25.2	22.2
92.5°	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8	116.9	155.0	170.6
95°	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8	484.8	597.7	532.2
97.5°	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6	991.1	926.3	678.2
100°	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5	1153.2	954.6	645.1
102.5°	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8	1161.2	902.2	596.7
105°	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4	1099.7	810.4	537.2
107.5°	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0	992.1	729.4	499.4
110°	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2	924.3	683.5	484.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2	865.5	652.8	476.8
115°	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8	794.4	620.0	473.7
117.5°	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9	751.3	600.6	475.5
120°	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9	728.8	591.7	478.8
122.5°	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1	710.2	586.0	484.4
125°	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4	686.5	578.7	492.9
127.5°	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7	665.5	575.0	502.6
130°	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0	654.2	572.6	509.1
132.5°	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8	643.7	571.8	513.9
135°	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5	630.1	570.6	521.2
137.5°	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8	618.1	568.4	525.9
140°	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2	610.9	567.5	529.2
142.5°	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5	604.4	565.9	531.6
145°	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0	595.7	563.5	533.2
147.5°	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5	587.2	559.7	533.2
150°	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8	581.6	556.4	533.2
152.5°	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9	575.2	552.4	530.8
155°	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6	565.5	545.3	528.2
157.5°	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6	554.6	539.1	524.8
160°	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5	547.3	534.2	523.2
162.5°	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8	540.1	529.4	520.0
165°	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3	530.2	522.2	515.1
167.5°	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4	520.8	514.9	510.3
170°	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2	515.1	510.1	507.1
172.5°	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7	509.5	506.0	504.6
175°	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0	503.0	501.0	501.0
177.5°	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6	498.8	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	500.6	499.2	497.7	495.0	492.7	489.6	488.6	487.5	484.0	481.1	478.8
5°	531.2	525.5	517.4	509.8	503.7	495.4	490.8	485.8	478.8	472.4	467.3
7.5°	563.2	552.1	539.3	525.5	512.6	500.2	490.2	481.2	471.3	462.0	454.6
10°	588.7	572.6	554.7	535.4	519.0	503.0	489.6	477.9	465.1	454.0	444.8
12.5°	617.6	593.9	569.3	545.8	526.3	504.1	487.9	472.9	458.5	445.2	434.9
15°	651.9	621.8	592.6	560.4	530.8	503.0	483.7	464.8	448.2	434.5	421.3
17.5°	683.2	649.0	610.6	571.4	535.6	502.7	475.7	454.4	433.5	416.9	403.7
20°	700.8	662.1	618.5	577.8	538.3	501.6	471.9	446.6	423.9	406.3	391.5
22.5°	716.1	670.7	625.6	582.1	538.1	498.6	464.9	438.8	414.3	397.1	381.3
25°	732.0	677.5	632.4	581.4	532.2	491.2	453.6	423.9	399.5	379.2	363.0
27.5°	745.5	677.1	623.5	568.6	522.8	481.8	441.6	409.8	383.8	361.8	345.4
30°	754.5	678.0	614.3	560.0	513.8	471.5	432.4	400.4	373.1	350.8	335.3
32.5°	760.1	677.4	605.8	547.9	499.5	462.0	422.4	389.3	361.2	339.3	324.4
35°	763.5	673.3	591.2	523.0	476.5	439.9	406.8	372.4	343.1	322.6	305.6
37.5°	756.8	664.6	574.3	499.0	448.0	412.1	384.2	355.0	326.8	304.3	289.6
40°	746.5	658.9	561.1	482.0	428.4	393.8	370.1	341.3	313.6	292.2	278.5
42.5°	726.7	647.5	546.6	463.2	408.1	373.5	351.6	327.6	301.3	281.2	267.6
45°	678.5	622.5	524.8	435.0	378.1	342.3	323.1	305.6	281.9	262.4	250.5
47.5°	611.6	584.9	493.4	405.3	346.7	312.4	292.3	278.3	260.9	245.1	233.9
50°	565.1	554.0	472.2	384.9	325.9	292.2	272.9	260.2	247.7	232.0	221.7
52.5°	511.5	518.3	447.4	363.9	304.6	271.5	253.4	243.3	232.0	218.9	210.0
55°	436.0	460.6	404.5	328.4	272.9	241.4	224.2	215.3	208.6	199.0	191.3
57.5°	365.3	396.7	358.0	292.0	241.8	214.6	198.1	188.4	184.2	179.2	173.0
60°	323.3	354.3	324.9	267.5	221.0	195.0	180.5	172.2	167.9	164.4	159.3
62.5°	285.8	317.2	292.6	242.7	200.4	176.4	163.7	155.6	152.4	150.6	146.1
65°	234.3	261.4	244.9	204.0	171.1	149.9	138.4	132.7	129.7	129.0	126.1
67.5°	190.7	211.3	199.3	169.2	143.3	125.0	115.2	110.4	108.1	107.8	105.6
70°	162.1	181.4	172.2	144.9	122.6	108.3	99.8	95.5	94.1	93.9	92.7
72.5°	139.9	153.3	146.0	123.3	106.0	93.0	86.7	82.3	80.8	81.1	80.3
75°	103.5	113.6	109.4	93.6	79.8	71.3	66.1	63.3	61.9	62.6	61.6
77.5°	74.5	80.9	77.1	66.1	57.6	51.5	47.7	45.9	44.6	44.6	44.2
80°	56.2	60.0	57.9	51.3	44.2	39.1	36.0	34.8	34.1	33.8	33.6
82.5°	40.1	43.2	40.7	36.3	31.4	28.3	26.6	25.0	24.5	24.6	24.4
85°	20.2	21.4	20.5	17.7	15.8	14.3	13.4	12.7	12.2	12.4	12.0
87.5°	10.8	10.4	9.2	8.1	7.3	6.1	5.7	4.9	4.9	5.4	5.8
90°	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0	4.0	6.1	9.1
92.5°	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5	18.6	27.1	34.8
95°	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2	37.3	48.4	65.5
97.5°	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5	59.5	68.2	83.0
100°	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6	75.6	82.7	96.7
102.5°	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5	93.3	99.6	112.9
105°	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9	120.0	126.0	138.1
107.5°	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9	146.9	152.8	164.7
110°	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3	166.3	171.4	182.5



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1	184.1	189.1	200.2
115°	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6	210.7	216.7	226.8
117.5°	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3	236.9	242.0	251.2
120°	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9	253.0	258.0	268.1
122.5°	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3	268.3	273.4	284.3
125°	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3	289.3	295.4	306.4
127.5°	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1	307.0	314.5	325.8
130°	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5	317.5	326.6	338.7
132.5°	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6	326.4	336.3	350.8
135°	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7	340.7	351.8	366.9
137.5°	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0	354.3	365.1	381.2
140°	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9	363.9	374.0	390.1
142.5°	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5	372.7	383.6	398.2
145°	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1	387.1	396.2	411.3
147.5°	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8	401.6	410.5	423.5
150°	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3	411.3	419.3	432.4
152.5°	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7	420.9	429.0	440.5
155°	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5	436.5	442.5	452.6
157.5°	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0	449.8	454.6	463.5
160°	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7	458.7	462.7	470.7
162.5°	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0	466.0	469.2	475.5
165°	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8	475.7	477.8	482.8
167.5°	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0	483.8	484.8	488.7
170°	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9	487.9	488.9	491.9
172.5°	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1	491.9	492.1	494.3
175°	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0	495.9	494.9	497.0
177.5°	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8	498.0	497.2	498.0
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	477.5	476.2	474.3	471.5	469.2	465.6	465.6	466.2	466.2	466.1	465.6
5°	463.0	459.5	455.2	450.3	445.1	439.9	439.0	437.1	435.8	434.7	433.6
7.5°	447.7	441.4	435.3	428.4	422.0	416.9	413.2	410.2	408.3	406.2	404.7
10°	437.4	429.6	422.3	415.1	407.0	400.6	396.7	393.8	391.7	389.8	388.9
12.5°	425.2	416.3	408.2	401.2	392.5	386.0	382.1	380.8	378.4	374.4	372.3
15°	407.3	399.0	389.4	378.8	374.6	366.6	362.0	359.9	358.5	355.5	354.6
17.5°	391.9	381.2	370.3	362.4	354.6	348.1	345.6	343.0	341.1	338.6	337.8
20°	379.7	370.1	360.2	351.7	343.5	336.4	334.3	332.4	330.5	329.4	328.4
22.5°	367.3	357.7	349.4	341.5	332.8	328.1	325.9	323.8	322.4	321.6	320.7
25°	349.8	341.3	332.1	325.2	318.1	315.0	313.6	312.5	311.4	310.3	310.0
27.5°	334.3	325.0	317.6	310.9	305.9	303.4	301.9	301.4	301.6	302.1	302.4
30°	322.6	314.1	308.0	302.4	297.6	295.3	295.0	295.0	296.0	296.2	296.7
32.5°	311.8	304.9	298.7	293.3	289.7	288.1	289.0	289.0	289.7	290.3	291.2
35°	296.2	290.0	285.4	280.6	277.6	278.3	278.8	279.2	280.4	281.9	282.8
37.5°	281.2	276.0	271.0	267.4	266.0	267.2	268.4	269.3	270.7	271.9	272.8
40°	270.5	266.5	261.9	258.5	259.0	259.7	260.6	261.9	263.1	263.8	264.7
42.5°	260.5	256.4	252.8	250.0	250.7	251.7	252.2	252.8	254.2	255.5	256.0
45°	245.4	242.1	238.8	237.1	237.6	238.1	238.5	239.2	240.4	241.4	241.7
47.5°	228.3	226.0	223.8	222.2	223.0	222.8	223.4	224.9	225.2	225.8	227.1
50°	217.4	215.3	212.7	212.2	212.2	212.2	212.5	214.3	214.3	215.3	216.2
52.5°	205.3	204.0	202.4	201.5	201.1	201.1	202.1	203.0	203.4	204.7	205.7
55°	187.5	186.1	184.7	184.0	183.5	184.0	185.8	186.3	187.5	188.2	188.9
57.5°	169.0	167.8	166.7	166.3	166.2	166.8	167.8	169.3	169.6	171.8	172.8
60°	156.7	155.0	154.1	154.1	153.6	155.7	155.3	157.6	158.1	159.6	161.2
62.5°	144.1	141.9	141.5	141.5	142.2	142.8	143.4	144.4	145.7	147.4	148.8
65°	123.7	122.6	124.2	124.0	123.5	124.9	124.9	126.1	127.5	129.2	131.8
67.5°	104.5	103.9	104.0	104.0	104.7	105.5	106.2	107.2	109.0	110.7	112.4
70°	91.5	92.2	91.1	92.0	92.7	92.9	93.4	94.8	96.6	97.9	99.8
72.5°	78.9	78.9	79.0	79.4	80.1	80.5	81.0	82.6	84.6	85.6	87.2
75°	60.7	60.5	61.2	61.2	62.3	62.8	63.3	64.0	65.8	67.3	68.5
77.5°	44.3	44.6	44.4	45.2	44.9	45.0	46.5	47.2	47.4	50.2	50.8
80°	33.4	33.8	34.1	34.3	34.5	34.1	35.7	36.5	36.5	38.1	39.3
82.5°	24.0	24.2	24.8	25.1	25.1	25.7	25.8	26.3	26.9	27.6	29.1
85°	12.0	12.7	12.9	12.7	12.9	12.4	13.1	13.4	13.6	13.6	13.6
87.5°	6.0	6.6	7.0	7.8	8.2	9.0	8.8	8.6	8.8	9.6	9.2
90°	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2	26.3	27.3	29.2
92.5°	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8	67.4	59.5	54.2
95°	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8	246.0	192.6	156.2
97.5°	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6	724.6	594.5	473.9
100°	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5	1106.8	988.9	845.8
102.5°	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8	1280.2	1211.4	1120.7
105°	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4	1411.3	1430.4	1404.2
107.5°	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0	1394.7	1483.0	1518.9
110°	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2	1340.7	1467.6	1538.2



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2	1269.7	1412.0	1502.8
115°	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8	1156.2	1304.3	1414.2
117.5°	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9	1060.3	1193.3	1304.7
120°	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9	1007.0	1128.0	1229.8
122.5°	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1	964.3	1076.4	1170.9
125°	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4	911.3	1008.0	1088.6
127.5°	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7	864.6	952.0	1025.3
130°	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0	835.7	917.3	985.8
132.5°	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8	808.2	884.2	949.6
135°	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5	769.1	834.7	892.1
137.5°	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8	731.4	787.9	837.7
140°	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2	709.6	758.0	801.4
142.5°	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5	688.7	730.6	768.3
145°	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0	661.3	693.5	722.8
147.5°	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5	640.9	666.9	687.7
150°	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8	628.0	649.1	668.3
152.5°	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9	615.9	634.7	650.6
155°	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6	598.7	613.9	626.0
157.5°	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6	582.0	593.7	603.2
160°	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5	571.6	581.6	588.7
162.5°	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8	560.3	569.6	575.8
165°	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3	544.3	551.4	556.4
167.5°	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4	532.0	536.0	539.7
170°	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2	523.2	527.1	529.2
172.5°	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7	515.9	519.2	520.4
175°	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0	506.0	508.1	508.1
177.5°	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6	500.4	501.2	501.2
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	464.3	464.1	465.4	464.5	465.4	464.1	464.3	465.6	466.1	466.2	466.2
5°	432.2	432.9	430.5	430.5	430.5	432.9	432.2	433.6	434.7	435.8	437.1
7.5°	403.5	402.5	402.6	401.3	402.6	402.5	403.5	404.7	406.2	408.3	410.2
10°	386.1	384.7	384.2	384.5	384.2	384.7	386.1	388.9	389.8	391.7	393.8
12.5°	371.5	371.3	368.2	368.2	368.2	371.3	371.5	372.3	374.4	378.4	380.8
15°	354.6	350.1	349.6	351.0	349.6	350.1	354.6	354.6	355.5	358.5	359.9
17.5°	337.5	335.1	335.3	334.6	335.3	335.1	337.5	337.8	338.6	341.1	343.0
20°	328.4	327.0	326.8	325.2	326.8	327.0	328.4	328.4	329.4	330.5	332.4
22.5°	320.1	319.7	319.8	318.0	319.8	319.7	320.1	320.7	321.6	322.4	323.8
25°	309.8	311.0	310.0	310.0	310.0	311.0	309.8	310.0	310.3	311.4	312.5
27.5°	302.9	302.9	302.4	302.4	302.4	302.9	302.9	302.4	302.1	301.6	301.4
30°	297.6	297.4	297.8	297.8	297.8	297.4	297.6	296.7	296.2	296.0	295.0
32.5°	292.4	292.7	292.8	293.0	292.8	292.7	292.4	291.2	290.3	289.7	289.0
35°	284.2	284.5	285.2	284.7	285.2	284.5	284.2	282.8	281.9	280.4	279.2
37.5°	273.2	274.3	274.1	274.4	274.1	274.3	273.2	272.8	271.9	270.7	269.3
40°	264.9	265.6	265.4	265.4	265.4	265.6	264.9	264.7	263.8	263.1	261.9
42.5°	256.4	256.9	256.3	256.0	256.3	256.9	256.4	256.0	255.5	254.2	252.8
45°	242.6	242.1	242.8	241.9	242.8	242.1	242.6	241.7	241.4	240.4	239.2
47.5°	227.0	227.5	227.7	228.4	227.7	227.5	227.0	227.1	225.8	225.2	224.9
50°	216.7	218.1	218.1	217.8	218.1	218.1	216.7	216.2	215.3	214.3	214.3
52.5°	206.5	207.1	208.1	208.0	208.1	207.1	206.5	205.7	204.7	203.4	203.0
55°	190.8	191.3	191.8	192.0	191.8	191.3	190.8	188.9	188.2	187.5	186.3
57.5°	174.5	174.3	175.4	175.8	175.4	174.3	174.5	172.8	171.8	169.6	169.3
60°	163.0	163.0	164.9	165.6	164.9	163.0	163.0	161.2	159.6	158.1	157.6
62.5°	150.8	151.6	153.4	152.5	153.4	151.6	150.8	148.8	147.4	145.7	144.4
65°	132.9	134.8	134.6	135.5	134.6	134.8	132.9	131.8	129.2	127.5	126.1
67.5°	114.2	115.4	117.1	117.2	117.1	115.4	114.2	112.4	110.7	109.0	107.2
70°	101.6	102.8	103.7	104.4	103.7	102.8	101.6	99.8	97.9	96.6	94.8
72.5°	89.4	90.0	92.3	91.3	92.3	90.0	89.4	87.2	85.6	84.6	82.6
75°	70.1	71.8	73.2	72.5	73.2	71.8	70.1	68.5	67.3	65.8	64.0
77.5°	51.8	53.5	54.1	53.5	54.1	53.5	51.8	50.8	50.2	47.4	47.2
80°	40.9	40.7	42.1	41.9	42.1	40.7	40.9	39.3	38.1	36.5	36.5
82.5°	30.0	29.8	30.4	30.6	30.4	29.8	30.0	29.1	27.6	26.9	26.3
85°	14.5	15.2	14.3	14.1	14.3	15.2	14.5	13.6	13.6	13.6	13.4
87.5°	9.0	9.2	9.3	8.9	9.3	9.2	9.0	9.2	9.6	8.8	8.6
90°	28.2	29.2	30.2	29.2	30.2	29.2	28.2	29.2	27.3	26.3	25.2
92.5°	52.4	49.4	50.4	48.6	50.4	49.4	52.4	54.2	59.5	67.4	84.8
95°	137.1	128.1	121.0	116.9	121.0	128.1	137.1	156.2	192.6	246.0	362.8
97.5°	399.6	354.3	327.0	318.3	327.0	354.3	399.6	473.9	594.5	724.6	904.6
100°	744.0	670.3	631.1	632.1	631.1	670.3	744.0	845.8	988.9	1106.8	1188.5
102.5°	1041.5	983.2	950.4	927.2	950.4	983.2	1041.5	1120.7	1211.4	1280.2	1282.8
105°	1357.8	1319.5	1287.3	1282.2	1287.3	1319.5	1357.8	1404.2	1430.4	1411.3	1310.4
107.5°	1519.7	1506.8	1495.9	1486.6	1495.9	1506.8	1519.7	1518.9	1483.0	1394.7	1231.0
110°	1566.5	1574.6	1572.6	1570.5	1572.6	1574.6	1566.5	1538.2	1467.6	1340.7	1155.2



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1554.4	1579.3	1587.0	1587.4	1587.0	1579.3	1554.4	1502.8	1412.0	1269.7	1080.2
115°	1489.9	1534.2	1554.4	1559.4	1554.4	1534.2	1489.9	1414.2	1304.3	1156.2	980.8
117.5°	1383.6	1434.4	1463.5	1470.3	1463.5	1434.4	1383.6	1304.7	1193.3	1060.3	908.9
120°	1309.4	1365.8	1390.1	1396.1	1390.1	1365.8	1309.4	1229.8	1128.0	1007.0	870.9
122.5°	1241.7	1292.5	1319.1	1326.8	1319.1	1292.5	1241.7	1170.9	1076.4	964.3	841.1
125°	1153.2	1197.5	1222.7	1229.8	1222.7	1197.5	1153.2	1088.6	1008.0	911.3	801.4
127.5°	1082.8	1120.7	1143.5	1149.9	1143.5	1120.7	1082.8	1025.3	952.0	864.6	766.7
130°	1039.3	1075.6	1096.7	1104.8	1096.7	1075.6	1039.3	985.8	917.3	835.7	745.0
132.5°	999.8	1036.0	1054.8	1060.5	1054.8	1036.0	999.8	949.6	884.2	808.2	724.8
135°	941.5	971.7	989.9	996.9	989.9	971.7	941.5	892.1	834.7	769.1	697.5
137.5°	879.2	909.9	925.1	929.8	925.1	909.9	879.2	837.7	787.9	731.4	672.8
140°	839.7	867.9	884.0	883.0	884.0	867.9	839.7	801.4	758.0	709.6	658.2
142.5°	801.0	826.0	840.5	839.5	840.5	826.0	801.0	768.3	730.6	688.7	644.5
145°	747.9	769.1	777.2	779.2	777.2	769.1	747.9	722.8	693.5	661.3	628.0
147.5°	706.8	721.1	728.8	729.6	728.8	721.1	706.8	687.7	666.9	640.9	614.5
150°	683.5	694.5	700.5	700.5	700.5	694.5	683.5	668.3	649.1	628.0	604.8
152.5°	662.5	672.8	676.4	676.4	676.4	672.8	662.5	650.6	634.7	615.9	595.9
155°	635.1	643.1	645.1	646.1	645.1	643.1	635.1	626.0	613.9	598.7	582.6
157.5°	611.1	617.1	618.7	618.5	618.7	617.1	611.1	603.2	593.7	582.0	568.6
160°	595.7	601.8	601.8	600.8	601.8	601.8	595.7	588.7	581.6	571.6	560.5
162.5°	580.5	585.6	585.6	584.6	585.6	585.6	580.5	575.8	569.6	560.3	550.8
165°	560.5	564.5	563.5	563.5	563.5	564.5	560.5	556.4	551.4	544.3	538.3
167.5°	541.5	544.3	543.3	543.3	543.3	544.3	541.5	539.7	536.0	532.0	527.4
170°	530.2	532.2	531.2	531.2	531.2	532.2	530.2	529.2	527.1	523.2	520.2
172.5°	520.6	522.6	520.8	520.0	520.8	522.6	520.6	520.4	519.2	515.9	513.7
175°	508.1	509.1	508.1	507.1	508.1	509.1	508.1	508.1	508.1	506.0	505.0
177.5°	500.4	501.2	499.6	499.6	499.6	501.2	500.4	501.2	501.2	500.4	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	465.6	465.6	469.2	471.5	474.3	476.2	477.5	478.8	481.1	484.0	487.5
5°	439.0	439.9	445.1	450.3	455.2	459.5	463.0	467.3	472.4	478.8	485.8
7.5°	413.2	416.9	422.0	428.4	435.3	441.4	447.7	454.6	462.0	471.3	481.2
10°	396.7	400.6	407.0	415.1	422.3	429.6	437.4	444.8	454.0	465.1	477.9
12.5°	382.1	386.0	392.5	401.2	408.2	416.3	425.2	434.9	445.2	458.5	472.9
15°	362.0	366.6	374.6	378.8	389.4	399.0	407.3	421.3	434.5	448.2	464.8
17.5°	345.6	348.1	354.6	362.4	370.3	381.2	391.9	403.7	416.9	433.5	454.4
20°	334.3	336.4	343.5	351.7	360.2	370.1	379.7	391.5	406.3	423.9	446.6
22.5°	325.9	328.1	332.8	341.5	349.4	357.7	367.3	381.3	397.1	414.3	438.8
25°	313.6	315.0	318.1	325.2	332.1	341.3	349.8	363.0	379.2	399.5	423.9
27.5°	301.9	303.4	305.9	310.9	317.6	325.0	334.3	345.4	361.8	383.8	409.8
30°	295.0	295.3	297.6	302.4	308.0	314.1	322.6	335.3	350.8	373.1	400.4
32.5°	289.0	288.1	289.7	293.3	298.7	304.9	311.8	324.4	339.3	361.2	389.3
35°	278.8	278.3	277.6	280.6	285.4	290.0	296.2	305.6	322.6	343.1	372.4
37.5°	268.4	267.2	266.0	267.4	271.0	276.0	281.2	289.6	304.3	326.8	355.0
40°	260.6	259.7	259.0	258.5	261.9	266.5	270.5	278.5	292.2	313.6	341.3
42.5°	252.2	251.7	250.7	250.0	252.8	256.4	260.5	267.6	281.2	301.3	327.6
45°	238.5	238.1	237.6	237.1	238.8	242.1	245.4	250.5	262.4	281.9	305.6
47.5°	223.4	222.8	223.0	222.2	223.8	226.0	228.3	233.9	245.1	260.9	278.3
50°	212.5	212.2	212.2	212.2	212.7	215.3	217.4	221.7	232.0	247.7	260.2
52.5°	202.1	201.1	201.1	201.5	202.4	204.0	205.3	210.0	218.9	232.0	243.3
55°	185.8	184.0	183.5	184.0	184.7	186.1	187.5	191.3	199.0	208.6	215.3
57.5°	167.8	166.8	166.2	166.3	166.7	167.8	169.0	173.0	179.2	184.2	188.4
60°	155.3	155.7	153.6	154.1	154.1	155.0	156.7	159.3	164.4	167.9	172.2
62.5°	143.4	142.8	142.2	141.5	141.5	141.9	144.1	146.1	150.6	152.4	155.6
65°	124.9	124.9	123.5	124.0	124.2	122.6	123.7	126.1	129.0	129.7	132.7
67.5°	106.2	105.5	104.7	104.0	104.0	103.9	104.5	105.6	107.8	108.1	110.4
70°	93.4	92.9	92.7	92.0	91.1	92.2	91.5	92.7	93.9	94.1	95.5
72.5°	81.0	80.5	80.1	79.4	79.0	78.9	78.9	80.3	81.1	80.8	82.3
75°	63.3	62.8	62.3	61.2	61.2	60.5	60.7	61.6	62.6	61.9	63.3
77.5°	46.5	45.0	44.9	45.2	44.4	44.6	44.3	44.2	44.6	44.6	45.9
80°	35.7	34.1	34.5	34.3	34.1	33.8	33.4	33.6	33.8	34.1	34.8
82.5°	25.8	25.7	25.1	25.1	24.8	24.2	24.0	24.4	24.6	24.5	25.0
85°	13.1	12.4	12.9	12.7	12.9	12.7	12.0	12.0	12.4	12.2	12.7
87.5°	8.8	9.0	8.2	7.8	7.0	6.6	6.0	5.8	5.4	4.9	4.9
90°	24.2	25.2	22.2	19.2	16.2	13.1	11.1	9.1	6.1	4.0	2.0
92.5°	116.9	155.0	170.6	128.1	84.6	58.3	43.3	34.8	27.1	18.6	12.5
95°	484.8	597.7	532.2	366.9	216.7	131.1	91.7	65.5	48.4	37.3	34.2
97.5°	991.1	926.3	678.2	402.6	233.3	151.4	108.9	83.0	68.2	59.5	58.5
100°	1153.2	954.6	645.1	380.0	230.9	160.3	121.0	96.7	82.7	75.6	74.6
102.5°	1161.2	902.2	596.7	360.6	234.1	170.8	134.7	112.9	99.6	93.3	91.5
105°	1099.7	810.4	537.2	346.8	243.0	188.5	157.2	138.1	126.0	120.0	116.9
107.5°	992.1	729.4	499.4	345.8	259.4	211.7	182.7	164.7	152.8	146.9	143.9
110°	924.3	683.5	484.8	349.8	273.2	227.8	199.5	182.5	171.4	166.3	163.3



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	865.5	652.8	476.8	357.9	286.9	244.8	217.3	200.2	189.1	184.1	181.1
115°	794.4	620.0	473.7	370.9	309.4	271.1	244.0	226.8	216.7	210.7	206.6
117.5°	751.3	600.6	475.5	388.3	333.5	295.6	270.3	251.2	242.0	236.9	232.3
120°	728.8	591.7	478.8	401.2	348.8	312.5	287.3	268.1	258.0	253.0	249.9
122.5°	710.2	586.0	484.4	413.3	364.9	329.4	302.7	284.3	273.4	268.3	265.3
125°	686.5	578.7	492.9	432.4	388.1	352.8	325.6	306.4	295.4	289.3	287.3
127.5°	665.5	575.0	502.6	448.2	408.3	374.2	347.0	325.8	314.5	307.0	304.1
130°	654.2	572.6	509.1	458.7	420.3	387.1	359.8	338.7	326.6	317.5	314.5
132.5°	643.7	571.8	513.9	468.4	430.8	398.4	371.9	350.8	336.3	326.4	322.6
135°	630.1	570.6	521.2	480.8	446.6	415.3	388.1	366.9	351.8	340.7	336.7
137.5°	618.1	568.4	525.9	490.1	457.5	427.4	402.2	381.2	365.1	354.3	350.0
140°	610.9	567.5	529.2	494.9	464.7	435.5	410.3	390.1	374.0	363.9	358.9
142.5°	604.4	565.9	531.6	499.8	470.4	441.9	418.3	398.2	383.6	372.7	368.5
145°	595.7	563.5	533.2	505.0	477.8	451.6	428.4	411.3	396.2	387.1	384.1
147.5°	587.2	559.7	533.2	508.3	483.8	459.9	440.1	423.5	410.5	401.6	399.8
150°	581.6	556.4	533.2	509.1	487.9	464.7	446.6	432.4	419.3	411.3	410.3
152.5°	575.2	552.4	530.8	510.7	490.3	470.4	453.0	440.5	429.0	420.9	420.7
155°	565.5	545.3	528.2	511.1	494.9	477.8	463.7	452.6	442.5	436.5	436.5
157.5°	554.6	539.1	524.8	512.1	497.6	483.8	472.9	463.5	454.6	449.8	449.0
160°	547.3	534.2	523.2	512.1	500.0	487.9	477.8	470.7	462.7	458.7	458.7
162.5°	540.1	529.4	520.0	511.3	500.8	490.3	481.8	475.5	469.2	466.0	466.0
165°	530.2	522.2	515.1	509.1	502.0	493.9	486.9	482.8	477.8	475.7	476.8
167.5°	520.8	514.9	510.3	507.5	501.8	495.9	491.5	488.7	484.8	483.8	485.0
170°	515.1	510.1	507.1	505.0	501.0	495.9	493.9	491.9	488.9	487.9	489.9
172.5°	509.5	506.0	504.6	504.2	501.0	496.8	495.5	494.3	492.1	491.9	493.1
175°	503.0	501.0	501.0	502.0	500.0	498.0	497.0	497.0	494.9	495.9	497.0
177.5°	498.8	498.0	498.8	500.4	498.8	498.0	498.0	498.0	497.2	498.0	498.8
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	488.6	489.6	492.7	495.0	497.7	499.2	500.6	501.8	503.3	503.6	509.1
5°	490.8	495.4	503.7	509.8	517.4	525.5	531.2	533.8	540.7	546.2	557.5
7.5°	490.2	500.2	512.6	525.5	539.3	552.1	563.2	576.4	585.7	599.9	613.7
10°	489.6	503.0	519.0	535.4	554.7	572.6	588.7	606.5	621.4	640.9	657.5
12.5°	487.9	504.1	526.3	545.8	569.3	593.9	617.6	640.6	653.7	686.2	701.6
15°	483.7	503.0	530.8	560.4	592.6	621.8	651.9	675.9	714.7	743.2	761.3
17.5°	475.7	502.7	535.6	571.4	610.6	649.0	683.2	719.5	760.7	795.2	831.9
20°	471.9	501.6	538.3	577.8	618.5	662.1	700.8	744.6	789.5	823.4	870.5
22.5°	464.9	498.6	538.1	582.1	625.6	670.7	716.1	760.2	812.1	858.8	903.6
25°	453.6	491.2	532.2	581.4	632.4	677.5	732.0	790.5	844.6	904.6	949.3
27.5°	441.6	481.8	522.8	568.6	623.5	677.1	745.5	811.6	877.8	929.6	962.7
30°	432.4	471.5	513.8	560.0	614.3	678.0	754.5	826.7	891.2	935.6	954.2
32.5°	422.4	462.0	499.5	547.9	605.8	677.4	760.1	835.6	891.9	921.5	917.9
35°	406.8	439.9	476.5	523.0	591.2	673.3	763.5	836.4	870.9	864.5	816.6
37.5°	384.2	412.1	448.0	499.0	574.3	664.6	756.8	811.5	809.3	757.6	688.0
40°	370.1	393.8	428.4	482.0	561.1	658.9	746.5	782.0	751.9	679.6	596.4
42.5°	351.6	373.5	408.1	463.2	546.6	647.5	726.7	737.0	678.1	595.0	518.7
45°	323.1	342.3	378.1	435.0	524.8	622.5	678.5	653.3	574.0	488.2	430.1
47.5°	292.3	312.4	346.7	405.3	493.4	584.9	611.6	558.1	476.7	407.0	353.7
50°	272.9	292.2	325.9	384.9	472.2	554.0	565.1	495.9	421.1	359.9	316.2
52.5°	253.4	271.5	304.6	363.9	447.4	518.3	511.5	441.0	372.2	320.0	285.7
55°	224.2	241.4	272.9	328.4	404.5	460.6	436.0	368.7	311.7	271.2	245.1
57.5°	198.1	214.6	241.8	292.0	358.0	396.7	365.3	308.5	263.3	232.1	212.7
60°	180.5	195.0	221.0	267.5	324.9	354.3	323.3	273.2	235.0	210.1	192.7
62.5°	163.7	176.4	200.4	242.7	292.6	317.2	285.8	243.4	211.0	188.8	174.0
65°	138.4	149.9	171.1	204.0	244.9	261.4	234.3	200.0	174.8	158.3	148.5
67.5°	115.2	125.0	143.3	169.2	199.3	211.3	190.7	164.1	145.1	131.9	124.1
70°	99.8	108.3	122.6	144.9	172.2	181.4	162.1	140.2	126.3	115.7	108.5
72.5°	86.7	93.0	106.0	123.3	146.0	153.3	139.9	120.7	107.8	99.8	93.9
75°	66.1	71.3	79.8	93.6	109.4	113.6	103.5	91.5	82.8	77.2	72.7
77.5°	47.7	51.5	57.6	66.1	77.1	80.9	74.5	66.4	60.1	56.4	53.8
80°	36.0	39.1	44.2	51.3	57.9	60.0	56.2	50.1	45.6	43.5	41.4
82.5°	26.6	28.3	31.4	36.3	40.7	43.2	40.1	36.4	33.9	32.0	31.2
85°	13.4	14.3	15.8	17.7	20.5	21.4	20.2	19.3	17.9	16.7	16.7
87.5°	5.7	6.1	7.3	8.1	9.2	10.4	10.8	11.0	11.4	11.0	11.1
90°	4.0	6.1	9.1	11.1	13.1	16.2	19.2	22.2	25.2	24.2	25.2
92.5°	18.6	27.1	34.8	43.3	58.3	84.6	128.1	170.6	155.0	116.9	84.8
95°	37.3	48.4	65.5	91.7	131.1	216.7	366.9	532.2	597.7	484.8	362.8
97.5°	59.5	68.2	83.0	108.9	151.4	233.3	402.6	678.2	926.3	991.1	904.6
100°	75.6	82.7	96.7	121.0	160.3	230.9	380.0	645.1	954.6	1153.2	1188.5
102.5°	93.3	99.6	112.9	134.7	170.8	234.1	360.6	596.7	902.2	1161.2	1282.8
105°	120.0	126.0	138.1	157.2	188.5	243.0	346.8	537.2	810.4	1099.7	1310.4
107.5°	146.9	152.8	164.7	182.7	211.7	259.4	345.8	499.4	729.4	992.1	1231.0
110°	166.3	171.4	182.5	199.5	227.8	273.2	349.8	484.8	683.5	924.3	1155.2



TEST NUMBER: P331894-840

CATALOG NUMBER: S123DIP-S340D1025U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	184.1	189.1	200.2	217.3	244.8	286.9	357.9	476.8	652.8	865.5	1080.2
115°	210.7	216.7	226.8	244.0	271.1	309.4	370.9	473.7	620.0	794.4	980.8
117.5°	236.9	242.0	251.2	270.3	295.6	333.5	388.3	475.5	600.6	751.3	908.9
120°	253.0	258.0	268.1	287.3	312.5	348.8	401.2	478.8	591.7	728.8	870.9
122.5°	268.3	273.4	284.3	302.7	329.4	364.9	413.3	484.4	586.0	710.2	841.1
125°	289.3	295.4	306.4	325.6	352.8	388.1	432.4	492.9	578.7	686.5	801.4
127.5°	307.0	314.5	325.8	347.0	374.2	408.3	448.2	502.6	575.0	665.5	766.7
130°	317.5	326.6	338.7	359.8	387.1	420.3	458.7	509.1	572.6	654.2	745.0
132.5°	326.4	336.3	350.8	371.9	398.4	430.8	468.4	513.9	571.8	643.7	724.8
135°	340.7	351.8	366.9	388.1	415.3	446.6	480.8	521.2	570.6	630.1	697.5
137.5°	354.3	365.1	381.2	402.2	427.4	457.5	490.1	525.9	568.4	618.1	672.8
140°	363.9	374.0	390.1	410.3	435.5	464.7	494.9	529.2	567.5	610.9	658.2
142.5°	372.7	383.6	398.2	418.3	441.9	470.4	499.8	531.6	565.9	604.4	644.5
145°	387.1	396.2	411.3	428.4	451.6	477.8	505.0	533.2	563.5	595.7	628.0
147.5°	401.6	410.5	423.5	440.1	459.9	483.8	508.3	533.2	559.7	587.2	614.5
150°	411.3	419.3	432.4	446.6	464.7	487.9	509.1	533.2	556.4	581.6	604.8
152.5°	420.9	429.0	440.5	453.0	470.4	490.3	510.7	530.8	552.4	575.2	595.9
155°	436.5	442.5	452.6	463.7	477.8	494.9	511.1	528.2	545.3	565.5	582.6
157.5°	449.8	454.6	463.5	472.9	483.8	497.6	512.1	524.8	539.1	554.6	568.6
160°	458.7	462.7	470.7	477.8	487.9	500.0	512.1	523.2	534.2	547.3	560.5
162.5°	466.0	469.2	475.5	481.8	490.3	500.8	511.3	520.0	529.4	540.1	550.8
165°	475.7	477.8	482.8	486.9	493.9	502.0	509.1	515.1	522.2	530.2	538.3
167.5°	483.8	484.8	488.7	491.5	495.9	501.8	507.5	510.3	514.9	520.8	527.4
170°	487.9	488.9	491.9	493.9	495.9	501.0	505.0	507.1	510.1	515.1	520.2
172.5°	491.9	492.1	494.3	495.5	496.8	501.0	504.2	504.6	506.0	509.5	513.7
175°	495.9	494.9	497.0	497.0	498.0	500.0	502.0	501.0	501.0	503.0	505.0
177.5°	498.0	497.2	498.0	498.0	498.0	498.8	500.4	498.8	498.0	498.8	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0	498.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	485.5	485.5	485.5	485.5	485.5	485.5	485.5
2.5°	511.0	511.2	513.2	514.7	514.0	514.9	515.3
5°	558.3	566.7	571.2	574.5	574.7	575.0	576.8
7.5°	625.3	634.4	641.1	651.2	654.1	657.5	656.6
10°	674.3	687.7	699.2	705.3	712.0	721.5	713.8
12.5°	720.0	743.8	761.3	770.8	777.0	778.9	775.2
15°	795.5	826.5	843.1	842.7	863.8	873.0	858.7
17.5°	864.5	893.2	916.3	928.0	945.6	949.5	947.8
20°	907.0	938.3	956.1	976.3	985.5	993.7	995.1
22.5°	943.4	971.6	990.8	1007.5	1015.2	1019.2	1021.5
25°	981.1	1003.2	1014.7	1020.6	1022.7	1022.2	1019.2
27.5°	978.5	980.2	967.5	955.0	943.8	931.3	927.0
30°	953.0	933.3	898.0	878.0	848.6	825.3	834.8
32.5°	886.3	846.9	807.3	763.6	727.4	717.1	706.7
35°	756.4	687.2	646.7	599.7	580.9	562.1	549.1
37.5°	611.9	558.5	510.4	479.7	460.8	448.9	442.5
40°	529.1	480.9	441.3	416.4	402.0	388.7	386.8
42.5°	463.0	418.2	388.5	368.6	354.9	349.1	345.0
45°	379.2	348.0	328.0	313.9	304.7	301.1	296.4
47.5°	321.0	298.9	283.9	274.3	267.3	264.7	264.4
50°	288.4	270.0	259.0	251.5	246.1	245.1	241.4
52.5°	264.0	248.0	239.4	232.9	228.9	226.3	225.2
55°	229.1	218.5	210.8	207.0	204.0	201.4	201.4
57.5°	200.5	191.7	186.5	183.3	182.4	180.6	179.4
60°	182.8	175.3	171.3	168.4	166.5	166.8	164.7
62.5°	165.5	160.6	156.7	154.0	151.7	151.8	151.9
65°	140.9	137.1	134.3	133.4	132.0	130.4	130.8
67.5°	119.5	115.9	113.7	112.1	111.6	110.7	112.1
70°	104.0	101.4	99.8	98.4	97.9	98.1	99.3
72.5°	89.9	88.1	86.9	86.3	85.2	85.3	86.1
75°	70.6	69.2	68.3	67.6	67.3	67.3	67.3
77.5°	51.8	51.5	51.1	50.1	50.1	50.4	50.4
80°	40.9	40.2	40.0	39.5	38.8	38.4	39.5
82.5°	30.6	29.9	29.7	29.6	28.5	28.4	29.4
85°	16.5	15.8	16.0	15.8	15.8	15.6	15.6
87.5°	11.1	11.1	11.3	11.3	11.3	11.3	11.5
90°	26.3	27.3	29.2	28.2	29.2	30.2	29.2
92.5°	67.4	59.5	54.2	52.4	49.4	50.4	48.6
95°	246.0	192.6	156.2	137.1	128.1	121.0	116.9
97.5°	724.6	594.5	473.9	399.6	354.3	327.0	318.3
100°	1106.8	988.9	845.8	744.0	670.3	631.1	632.1
102.5°	1280.2	1211.4	1120.7	1041.5	983.2	950.4	927.2
105°	1411.3	1430.4	1404.2	1357.8	1319.5	1287.3	1282.2
107.5°	1394.7	1483.0	1518.9	1519.7	1506.8	1495.9	1486.6
110°	1340.7	1467.6	1538.2	1566.5	1574.6	1572.6	1570.5



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1269.7	1412.0	1502.8	1554.4	1579.3	1587.0	1587.4
115°	1156.2	1304.3	1414.2	1489.9	1534.2	1554.4	1559.4
117.5°	1060.3	1193.3	1304.7	1383.6	1434.4	1463.5	1470.3
120°	1007.0	1128.0	1229.8	1309.4	1365.8	1390.1	1396.1
122.5°	964.3	1076.4	1170.9	1241.7	1292.5	1319.1	1326.8
125°	911.3	1008.0	1088.6	1153.2	1197.5	1222.7	1229.8
127.5°	864.6	952.0	1025.3	1082.8	1120.7	1143.5	1149.9
130°	835.7	917.3	985.8	1039.3	1075.6	1096.7	1104.8
132.5°	808.2	884.2	949.6	999.8	1036.0	1054.8	1060.5
135°	769.1	834.7	892.1	941.5	971.7	989.9	996.9
137.5°	731.4	787.9	837.7	879.2	909.9	925.1	929.8
140°	709.6	758.0	801.4	839.7	867.9	884.0	883.0
142.5°	688.7	730.6	768.3	801.0	826.0	840.5	839.5
145°	661.3	693.5	722.8	747.9	769.1	777.2	779.2
147.5°	640.9	666.9	687.7	706.8	721.1	728.8	729.6
150°	628.0	649.1	668.3	683.5	694.5	700.5	700.5
152.5°	615.9	634.7	650.6	662.5	672.8	676.4	676.4
155°	598.7	613.9	626.0	635.1	643.1	645.1	646.1
157.5°	582.0	593.7	603.2	611.1	617.1	618.7	618.5
160°	571.6	581.6	588.7	595.7	601.8	601.8	600.8
162.5°	560.3	569.6	575.8	580.5	585.6	585.6	584.6
165°	544.3	551.4	556.4	560.5	564.5	563.5	563.5
167.5°	532.0	536.0	539.7	541.5	544.3	543.3	543.3
170°	523.2	527.1	529.2	530.2	532.2	531.2	531.2
172.5°	515.9	519.2	520.4	520.6	522.6	520.8	520.0
175°	506.0	508.1	508.1	508.1	509.1	508.1	507.1
177.5°	500.4	501.2	501.2	500.4	501.2	499.6	499.6
180°	498.0	498.0	498.0	498.0	498.0	498.0	498.0

(END OF REPORT)