

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: P331903-840

Luminaire Tested: **S123DIP-S340D1195U840-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331903-840  
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-S340D1195U840-4F0-1E-UDD-A4  
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1195 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5830.8 lumens  
Efficiency: N/A  
Efficacy: 138.2 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

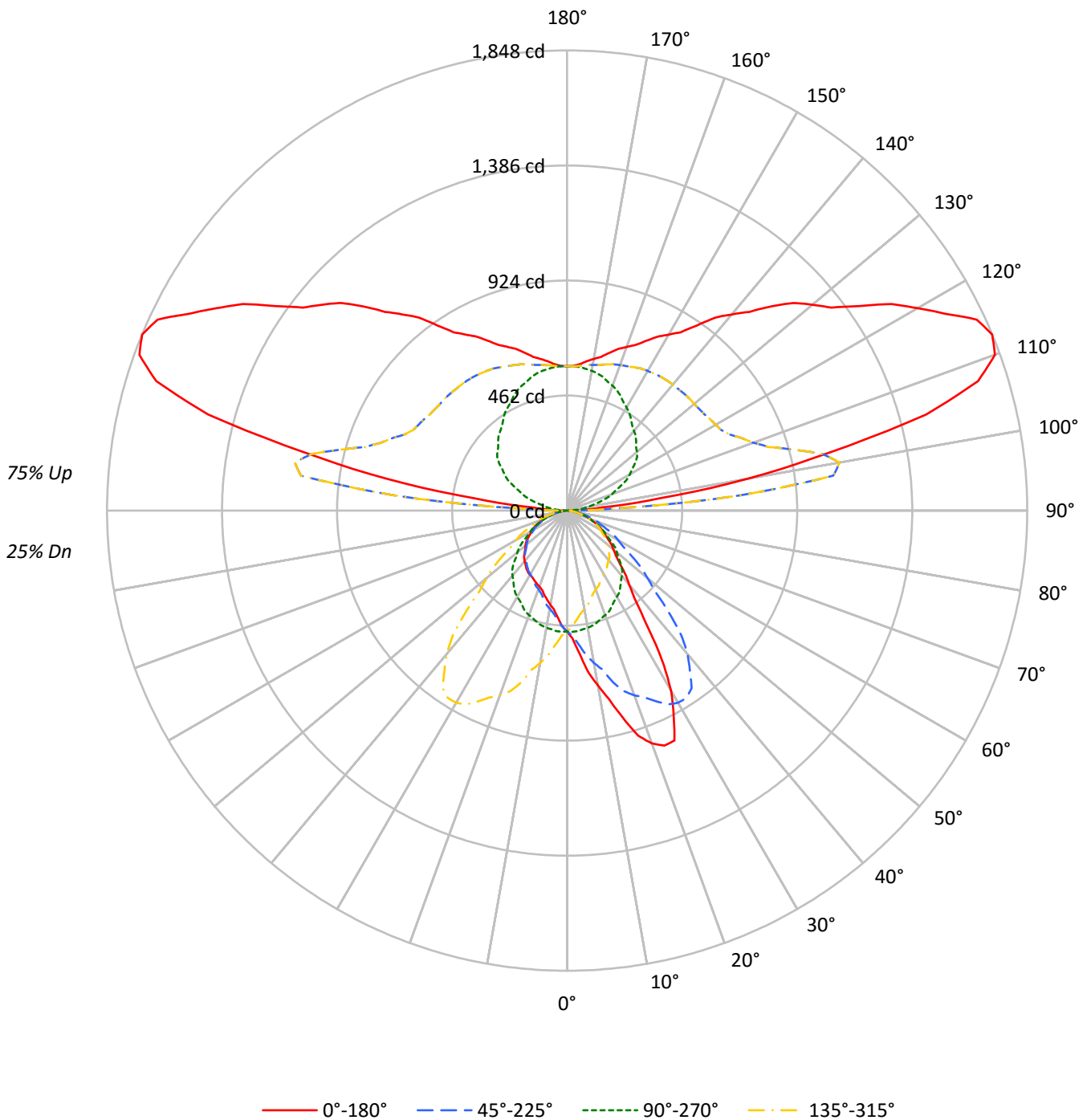
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

### Luminous Intensity Polar Plot





TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	85	81	82	79	76	73	61	59	57	45	43	42	30	29	28	21
2	84	77	71	66	75	69	64	60	54	50	47	39	37	35	26	25	24	18
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	19	18	13
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	15	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14	10
7	55	43	35	30	48	39	32	27	30	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11	8
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	7
10	44	32	25	21	39	29	23	19	23	19	16	17	14	12	12	10	9	7

**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



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.8	0.8
10°-20°	153.4	2.6
20°-30°	257.4	4.4
30°-40°	291.5	5.0
40°-50°	261.4	4.5
50°-60°	210.9	3.6
60°-70°	147.0	2.5
70°-80°	77.3	1.3
80°-90°	23.4	0.4
90°-100°	322.6	5.5
100°-110°	913.4	15.7
110°-120°	898.5	15.4
120°-130°	716.7	12.3
130°-140°	565.1	9.7
140°-150°	421.7	7.2
150°-160°	294.0	5.0
160°-170°	172.7	3.0
170°-180°	56.2	1.0
0°-30°	458.6	7.9
0°-40°	750.1	12.9
0°-60°	1222.4	21.0
0°-90°	1470.1	25.2
90°-120°	2134.4	36.6
90°-150°	3837.9	65.8
90°-180°	4361.0	74.8
0°-180°	5830.8	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°	34	2	34	2	34	19
95°	136	40	136	40	136	245
105°	1492	136	1492	136	1492	1472
115°	1815	240	1815	240	1815	1764
125°	1432	334	1432	334	1432	1297
135°	1160	392	1160	392	1160	900
145°	907	447	907	447	907	577
155°	752	508	752	508	752	351
165°	656	555	656	555	656	187
175°	590	578	590	578	590	57
180°	580	580	580	580	580	



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**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°	12.4	12.3	12.2	12.2	12.2	12.0	11.9	11.9	11.8	12.2	11.7
90°	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3	28.2	29.3	25.9
92.5°	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8	136.1	180.5	198.5
95°	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4	564.3	695.8	619.6
97.5°	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9	1153.6	1078.2	789.4
100°	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3	1342.3	1111.2	750.9
102.5°	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2	1351.6	1050.2	694.6
105°	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3	1280.1	943.3	625.4
107.5°	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8	1154.8	849.0	581.3
110°	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6	1075.9	795.5	564.3



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3	1007.4	759.8	555.0
115°	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7	924.5	721.5	551.5
117.5°	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8	874.5	699.0	553.6
120°	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7	848.3	688.7	557.3
122.5°	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0	826.7	682.2	563.9
125°	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8	799.0	673.5	573.7
127.5°	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4	774.7	669.2	585.0
130°	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1	761.4	666.4	592.5
132.5°	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6	749.3	665.5	598.1
135°	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9	733.4	664.1	606.6
137.5°	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0	719.4	661.5	612.3
140°	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2	711.0	660.6	616.0
142.5°	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2	703.5	658.7	618.8
145°	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9	693.5	655.9	620.7
147.5°	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3	683.6	651.5	620.7
150°	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0	677.0	647.6	620.7
152.5°	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7	669.5	643.0	617.8
155°	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1	658.2	634.8	614.8
157.5°	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8	645.5	627.5	610.9
160°	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4	637.1	621.9	608.9
162.5°	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1	628.6	616.2	605.2
165°	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5	617.1	607.7	599.6
167.5°	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9	606.1	599.4	593.9
170°	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4	599.6	593.7	590.2
172.5°	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9	593.0	589.0	587.3
175°	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8	585.5	583.1	583.1
177.5°	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5	580.6	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**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°	11.4	10.9	9.6	8.4	7.6	6.3	5.9	4.9	5.0	5.6	6.1
90°	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3	4.6	7.1	10.6
92.5°	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5	21.6	31.4	40.6
95°	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9	43.4	56.4	76.2
97.5°	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1	69.2	79.3	96.6
100°	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8	88.0	96.2	112.6
102.5°	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5	108.7	115.9	131.4
105°	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1	139.7	146.6	160.8
107.5°	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5	171.1	177.8	191.7
110°	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1	193.6	199.4	212.4





TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8	214.3	220.2	233.0
115°	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5	245.2	252.3	264.0
117.5°	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3	275.7	281.6	292.4
120°	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9	294.5	300.3	312.1
122.5°	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8	312.4	318.2	330.8
125°	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4	336.8	343.8	356.7
127.5°	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9	357.4	366.1	379.2
130°	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1	369.6	380.1	394.3
132.5°	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5	379.9	391.4	408.3
135°	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9	396.6	409.5	427.1
137.5°	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4	412.3	425.0	443.7
140°	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7	423.5	435.3	454.0
142.5°	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0	433.9	446.6	463.4
145°	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1	450.5	461.1	478.7
147.5°	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3	467.5	477.8	493.0
150°	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6	478.7	488.1	503.3
152.5°	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8	490.0	499.4	512.7
155°	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1	508.1	515.1	526.8
157.5°	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6	523.5	529.2	539.5
160°	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8	533.8	538.6	548.0
162.5°	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3	542.3	546.0	553.6
165°	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0	553.8	556.1	562.0
167.5°	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6	563.2	564.3	568.9
170°	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3	567.8	569.1	572.6
172.5°	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0	572.6	572.8	575.4
175°	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5	577.2	576.1	578.5
177.5°	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6	579.7	578.7	579.7
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-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°	6.4	7.0	7.5	8.4	8.9	9.8	9.6	9.5	9.7	10.5	10.2
90°	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3	30.5	31.7	34.0
92.5°	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8	78.4	69.2	63.1
95°	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4	286.3	224.1	181.9
97.5°	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9	843.3	692.1	551.7
100°	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3	1288.3	1151.0	984.4
102.5°	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2	1490.1	1410.1	1304.4
105°	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3	1642.6	1665.0	1634.5
107.5°	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8	1623.4	1726.2	1768.0
110°	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6	1560.5	1708.4	1790.5



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3	1477.9	1643.6	1749.2
115°	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7	1345.7	1518.2	1646.2
117.5°	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8	1234.1	1389.0	1518.7
120°	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7	1172.2	1312.9	1431.5
122.5°	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0	1122.4	1252.8	1362.9
125°	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8	1060.7	1173.3	1267.2
127.5°	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4	1006.4	1108.0	1193.5
130°	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1	972.7	1067.7	1147.5
132.5°	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6	940.8	1029.3	1105.3
135°	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9	895.2	971.5	1038.3
137.5°	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0	851.3	917.1	975.0
140°	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2	826.0	882.3	932.8
142.5°	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2	801.6	850.4	894.3
145°	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9	769.7	807.3	841.2
147.5°	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3	746.0	776.3	800.4
150°	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0	730.9	755.6	777.9
152.5°	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7	716.9	738.7	757.3
155°	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1	696.9	714.6	728.6
157.5°	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8	677.5	691.1	702.1
160°	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4	665.3	677.0	685.2
162.5°	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1	652.2	662.9	670.1
165°	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5	633.6	641.8	647.6
167.5°	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9	619.2	624.0	628.2
170°	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4	608.9	613.6	616.0
172.5°	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9	600.5	604.3	605.6
175°	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8	589.0	591.4	591.4
177.5°	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5	582.4	583.4	583.4
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-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°	10.0	10.2	10.2	9.8	10.2	10.2	10.0	10.2	10.5	9.7	9.5
90°	32.8	34.0	35.2	34.0	35.2	34.0	32.8	34.0	31.7	30.5	29.3
92.5°	61.0	57.5	58.7	56.6	58.7	57.5	61.0	63.1	69.2	78.4	98.8
95°	159.6	149.1	140.8	136.1	140.8	149.1	159.6	181.9	224.1	286.3	422.4
97.5°	465.1	412.3	380.6	370.5	380.6	412.3	465.1	551.7	692.1	843.3	1052.9
100°	865.9	780.2	734.5	735.7	734.5	780.2	865.9	984.4	1151.0	1288.3	1383.3
102.5°	1212.2	1144.5	1106.2	1079.2	1106.2	1144.5	1212.2	1304.4	1410.1	1490.1	1493.2
105°	1580.4	1535.9	1498.3	1492.5	1498.3	1535.9	1580.4	1634.5	1665.0	1642.6	1525.3
107.5°	1768.9	1753.8	1741.2	1730.4	1741.2	1753.8	1768.9	1768.0	1726.2	1623.4	1432.8
110°	1823.3	1832.7	1830.4	1828.1	1830.4	1832.7	1823.3	1790.5	1708.4	1560.5	1344.6



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1809.3	1838.4	1847.2	1847.8	1847.2	1838.4	1809.3	1749.2	1643.6	1477.9	1257.3
115°	1734.1	1785.7	1809.3	1815.1	1809.3	1785.7	1734.1	1646.2	1518.2	1345.7	1141.7
117.5°	1610.5	1669.6	1703.4	1711.4	1703.4	1669.6	1610.5	1518.7	1389.0	1234.1	1057.8
120°	1524.1	1589.8	1618.0	1625.1	1618.0	1589.8	1524.1	1431.5	1312.9	1172.2	1013.7
122.5°	1445.3	1504.4	1535.4	1544.3	1535.4	1504.4	1445.3	1362.9	1252.8	1122.4	979.0
125°	1342.3	1393.9	1423.2	1431.5	1423.2	1393.9	1342.3	1267.2	1173.3	1060.7	932.8
127.5°	1260.4	1304.4	1331.0	1338.5	1331.0	1304.4	1260.4	1193.5	1108.0	1006.4	892.4
130°	1209.7	1251.9	1276.6	1286.0	1276.6	1251.9	1209.7	1147.5	1067.7	972.7	867.1
132.5°	1163.7	1205.9	1227.8	1234.4	1227.8	1205.9	1163.7	1105.3	1029.3	940.8	843.6
135°	1095.9	1131.0	1152.2	1160.4	1152.2	1131.0	1095.9	1038.3	971.5	895.2	811.9
137.5°	1023.4	1059.0	1076.8	1082.3	1076.8	1059.0	1023.4	975.0	917.1	851.3	783.0
140°	977.3	1010.3	1029.0	1027.8	1029.0	1010.3	977.3	932.8	882.3	826.0	766.2
142.5°	932.3	961.4	978.3	977.1	978.3	961.4	932.3	894.3	850.4	801.6	750.2
145°	870.6	895.2	904.6	907.0	904.6	895.2	870.6	841.2	807.3	769.7	730.9
147.5°	822.7	839.4	848.3	849.2	848.3	839.4	822.7	800.4	776.3	746.0	715.3
150°	795.5	808.4	815.5	815.5	815.5	808.4	795.5	777.9	755.6	730.9	704.0
152.5°	771.1	783.0	787.3	787.3	787.3	783.0	771.1	757.3	738.7	716.9	693.7
155°	739.2	748.6	750.9	752.0	750.9	748.6	739.2	728.6	714.6	696.9	678.1
157.5°	711.2	718.3	720.1	719.9	720.1	718.3	711.2	702.1	691.1	677.5	661.8
160°	693.5	700.4	700.4	699.3	700.4	700.4	693.5	685.2	677.0	665.3	652.4
162.5°	675.6	681.7	681.7	680.5	681.7	681.7	675.6	670.1	662.9	652.2	641.1
165°	652.4	657.0	655.9	655.9	655.9	657.0	652.4	647.6	641.8	633.6	626.5
167.5°	630.3	633.6	632.4	632.4	632.4	633.6	630.3	628.2	624.0	619.2	613.9
170°	617.1	619.6	618.3	618.3	618.3	619.6	617.1	616.0	613.6	608.9	605.4
172.5°	605.9	608.2	606.1	605.2	606.1	608.2	605.9	605.6	604.3	600.5	597.9
175°	591.4	592.5	591.4	590.2	591.4	592.5	591.4	591.4	591.4	589.0	587.8
177.5°	582.4	583.4	581.5	581.5	581.5	583.4	582.4	583.4	583.4	582.4	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-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°	9.6	9.8	8.9	8.4	7.5	7.0	6.4	6.1	5.6	5.0	4.9
90°	28.2	29.3	25.9	22.3	18.8	15.2	12.9	10.6	7.1	4.6	2.3
92.5°	136.1	180.5	198.5	149.1	98.6	67.9	50.5	40.6	31.4	21.6	14.5
95°	564.3	695.8	619.6	427.1	252.3	152.5	106.7	76.2	56.4	43.4	39.9
97.5°	1153.6	1078.2	789.4	468.6	271.6	176.2	126.7	96.6	79.3	69.2	68.1
100°	1342.3	1111.2	750.9	442.3	268.7	186.5	140.8	112.6	96.2	88.0	86.8
102.5°	1351.6	1050.2	694.6	419.8	272.5	198.7	156.7	131.4	115.9	108.7	106.5
105°	1280.1	943.3	625.4	403.6	282.8	219.4	183.0	160.8	146.6	139.7	136.1
107.5°	1154.8	849.0	581.3	402.4	302.1	246.4	212.6	191.7	177.8	171.1	167.5
110°	1075.9	795.5	564.3	407.2	318.0	265.2	232.3	212.4	199.4	193.6	190.1



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	1007.4	759.8	555.0	416.6	334.0	284.9	253.0	233.0	220.2	214.3	210.8
115°	924.5	721.5	551.5	431.8	360.2	315.6	284.0	264.0	252.3	245.2	240.5
117.5°	874.5	699.0	553.6	451.9	388.1	344.1	314.7	292.4	281.6	275.7	270.3
120°	848.3	688.7	557.3	467.0	406.0	363.8	334.4	312.1	300.3	294.5	290.9
122.5°	826.7	682.2	563.9	481.1	424.7	383.4	352.2	330.8	318.2	312.4	308.8
125°	799.0	673.5	573.7	503.3	451.7	410.6	379.0	356.7	343.8	336.8	334.4
127.5°	774.7	669.2	585.0	521.7	475.1	435.6	403.8	379.2	366.1	357.4	353.9
130°	761.4	666.4	592.5	533.8	489.3	450.5	418.9	394.3	380.1	369.6	366.1
132.5°	749.3	665.5	598.1	545.1	501.5	463.7	432.9	408.3	391.4	379.9	375.5
135°	733.4	664.1	606.6	559.7	519.8	483.4	451.7	427.1	409.5	396.6	391.9
137.5°	719.4	661.5	612.3	570.5	532.4	497.5	468.2	443.7	425.0	412.3	407.4
140°	711.0	660.6	616.0	576.1	540.9	506.9	477.6	454.0	435.3	423.5	417.7
142.5°	703.5	658.7	618.8	581.7	547.4	514.4	487.0	463.4	446.6	433.9	429.0
145°	693.5	655.9	620.7	587.8	556.1	525.6	498.7	478.7	461.1	450.5	447.1
147.5°	683.6	651.5	620.7	591.6	563.2	535.2	512.3	493.0	477.8	467.5	465.3
150°	677.0	647.6	620.7	592.5	567.8	540.9	519.8	503.3	488.1	478.7	477.6
152.5°	669.5	643.0	617.8	594.4	570.7	547.4	527.3	512.7	499.4	490.0	489.8
155°	658.2	634.8	614.8	594.9	576.1	556.1	539.7	526.8	515.1	508.1	508.1
157.5°	645.5	627.5	610.9	596.0	579.2	563.2	550.5	539.5	529.2	523.5	522.6
160°	637.1	621.9	608.9	596.0	582.0	567.8	556.1	548.0	538.6	533.8	533.8
162.5°	628.6	616.2	605.2	595.1	582.9	570.7	560.9	553.6	546.0	542.3	542.3
165°	617.1	607.7	599.6	592.5	584.3	574.9	566.7	562.0	556.1	553.8	555.0
167.5°	606.1	599.4	593.9	590.7	584.1	577.2	572.1	568.9	564.3	563.2	564.6
170°	599.6	593.7	590.2	587.8	583.1	577.2	574.9	572.6	569.1	567.8	570.3
172.5°	593.0	589.0	587.3	586.9	583.1	578.2	576.8	575.4	572.8	572.6	574.0
175°	585.5	583.1	583.1	584.3	582.0	579.7	578.5	578.5	576.1	577.2	578.5
177.5°	580.6	579.7	580.6	582.4	580.6	579.7	579.7	579.7	578.7	579.7	580.6
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-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°	5.9	6.3	7.6	8.4	9.6	10.9	11.4	11.7	12.2	11.8	11.9
90°	4.6	7.1	10.6	12.9	15.2	18.8	22.3	25.9	29.3	28.2	29.3
92.5°	21.6	31.4	40.6	50.5	67.9	98.6	149.1	198.5	180.5	136.1	98.8
95°	43.4	56.4	76.2	106.7	152.5	252.3	427.1	619.6	695.8	564.3	422.4
97.5°	69.2	79.3	96.6	126.7	176.2	271.6	468.6	789.4	1078.2	1153.6	1052.9
100°	88.0	96.2	112.6	140.8	186.5	268.7	442.3	750.9	1111.2	1342.3	1383.3
102.5°	108.7	115.9	131.4	156.7	198.7	272.5	419.8	694.6	1050.2	1351.6	1493.2
105°	139.7	146.6	160.8	183.0	219.4	282.8	403.6	625.4	943.3	1280.1	1525.3
107.5°	171.1	177.8	191.7	212.6	246.4	302.1	402.4	581.3	849.0	1154.8	1432.8
110°	193.6	199.4	212.4	232.3	265.2	318.0	407.2	564.3	795.5	1075.9	1344.6





TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	214.3	220.2	233.0	253.0	284.9	334.0	416.6	555.0	759.8	1007.4	1257.3
115°	245.2	252.3	264.0	284.0	315.6	360.2	431.8	551.5	721.5	924.5	1141.7
117.5°	275.7	281.6	292.4	314.7	344.1	388.1	451.9	553.6	699.0	874.5	1057.8
120°	294.5	300.3	312.1	334.4	363.8	406.0	467.0	557.3	688.7	848.3	1013.7
122.5°	312.4	318.2	330.8	352.2	383.4	424.7	481.1	563.9	682.2	826.7	979.0
125°	336.8	343.8	356.7	379.0	410.6	451.7	503.3	573.7	673.5	799.0	932.8
127.5°	357.4	366.1	379.2	403.8	435.6	475.1	521.7	585.0	669.2	774.7	892.4
130°	369.6	380.1	394.3	418.9	450.5	489.3	533.8	592.5	666.4	761.4	867.1
132.5°	379.9	391.4	408.3	432.9	463.7	501.5	545.1	598.1	665.5	749.3	843.6
135°	396.6	409.5	427.1	451.7	483.4	519.8	559.7	606.6	664.1	733.4	811.9
137.5°	412.3	425.0	443.7	468.2	497.5	532.4	570.5	612.3	661.5	719.4	783.0
140°	423.5	435.3	454.0	477.6	506.9	540.9	576.1	616.0	660.6	711.0	766.2
142.5°	433.9	446.6	463.4	487.0	514.4	547.4	581.7	618.8	658.7	703.5	750.2
145°	450.5	461.1	478.7	498.7	525.6	556.1	587.8	620.7	655.9	693.5	730.9
147.5°	467.5	477.8	493.0	512.3	535.2	563.2	591.6	620.7	651.5	683.6	715.3
150°	478.7	488.1	503.3	519.8	540.9	567.8	592.5	620.7	647.6	677.0	704.0
152.5°	490.0	499.4	512.7	527.3	547.4	570.7	594.4	617.8	643.0	669.5	693.7
155°	508.1	515.1	526.8	539.7	556.1	576.1	594.9	614.8	634.8	658.2	678.1
157.5°	523.5	529.2	539.5	550.5	563.2	579.2	596.0	610.9	627.5	645.5	661.8
160°	533.8	538.6	548.0	556.1	567.8	582.0	596.0	608.9	621.9	637.1	652.4
162.5°	542.3	546.0	553.6	560.9	570.7	582.9	595.1	605.2	616.2	628.6	641.1
165°	553.8	556.1	562.0	566.7	574.9	584.3	592.5	599.6	607.7	617.1	626.5
167.5°	563.2	564.3	568.9	572.1	577.2	584.1	590.7	593.9	599.4	606.1	613.9
170°	567.8	569.1	572.6	574.9	577.2	583.1	587.8	590.2	593.7	599.6	605.4
172.5°	572.6	572.8	575.4	576.8	578.2	583.1	586.9	587.3	589.0	593.0	597.9
175°	577.2	576.1	578.5	578.5	579.7	582.0	584.3	583.1	583.1	585.5	587.8
177.5°	579.7	578.7	579.7	579.7	579.7	580.6	582.4	580.6	579.7	580.6	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7	579.7



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**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°	11.9	12.0	12.2	12.2	12.2	12.3	12.4
90°	30.5	31.7	34.0	32.8	34.0	35.2	34.0
92.5°	78.4	69.2	63.1	61.0	57.5	58.7	56.6
95°	286.3	224.1	181.9	159.6	149.1	140.8	136.1
97.5°	843.3	692.1	551.7	465.1	412.3	380.6	370.5
100°	1288.3	1151.0	984.4	865.9	780.2	734.5	735.7
102.5°	1490.1	1410.1	1304.4	1212.2	1144.5	1106.2	1079.2
105°	1642.6	1665.0	1634.5	1580.4	1535.9	1498.3	1492.5
107.5°	1623.4	1726.2	1768.0	1768.9	1753.8	1741.2	1730.4
110°	1560.5	1708.4	1790.5	1823.3	1832.7	1830.4	1828.1



TEST NUMBER: P331903-840

CATALOG NUMBER: S123DIP-S340D1195U840-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1477.9	1643.6	1749.2	1809.3	1838.4	1847.2	1847.8
115°	1345.7	1518.2	1646.2	1734.1	1785.7	1809.3	1815.1
117.5°	1234.1	1389.0	1518.7	1610.5	1669.6	1703.4	1711.4
120°	1172.2	1312.9	1431.5	1524.1	1589.8	1618.0	1625.1
122.5°	1122.4	1252.8	1362.9	1445.3	1504.4	1535.4	1544.3
125°	1060.7	1173.3	1267.2	1342.3	1393.9	1423.2	1431.5
127.5°	1006.4	1108.0	1193.5	1260.4	1304.4	1331.0	1338.5
130°	972.7	1067.7	1147.5	1209.7	1251.9	1276.6	1286.0
132.5°	940.8	1029.3	1105.3	1163.7	1205.9	1227.8	1234.4
135°	895.2	971.5	1038.3	1095.9	1131.0	1152.2	1160.4
137.5°	851.3	917.1	975.0	1023.4	1059.0	1076.8	1082.3
140°	826.0	882.3	932.8	977.3	1010.3	1029.0	1027.8
142.5°	801.6	850.4	894.3	932.3	961.4	978.3	977.1
145°	769.7	807.3	841.2	870.6	895.2	904.6	907.0
147.5°	746.0	776.3	800.4	822.7	839.4	848.3	849.2
150°	730.9	755.6	777.9	795.5	808.4	815.5	815.5
152.5°	716.9	738.7	757.3	771.1	783.0	787.3	787.3
155°	696.9	714.6	728.6	739.2	748.6	750.9	752.0
157.5°	677.5	691.1	702.1	711.2	718.3	720.1	719.9
160°	665.3	677.0	685.2	693.5	700.4	700.4	699.3
162.5°	652.2	662.9	670.1	675.6	681.7	681.7	680.5
165°	633.6	641.8	647.6	652.4	657.0	655.9	655.9
167.5°	619.2	624.0	628.2	630.3	633.6	632.4	632.4
170°	608.9	613.6	616.0	617.1	619.6	618.3	618.3
172.5°	600.5	604.3	605.6	605.9	608.2	606.1	605.2
175°	589.0	591.4	591.4	591.4	592.5	591.4	590.2
177.5°	582.4	583.4	583.4	582.4	583.4	581.5	581.5
180°	579.7	579.7	579.7	579.7	579.7	579.7	579.7

(END OF REPORT)