

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

Luminaire Tested: **S123DIP-S340D1195U835-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331903  
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-S340D1195U835-4F0-1E-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: 5773.8 lumens  
Efficiency: N/A  
Efficacy: 136.8 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

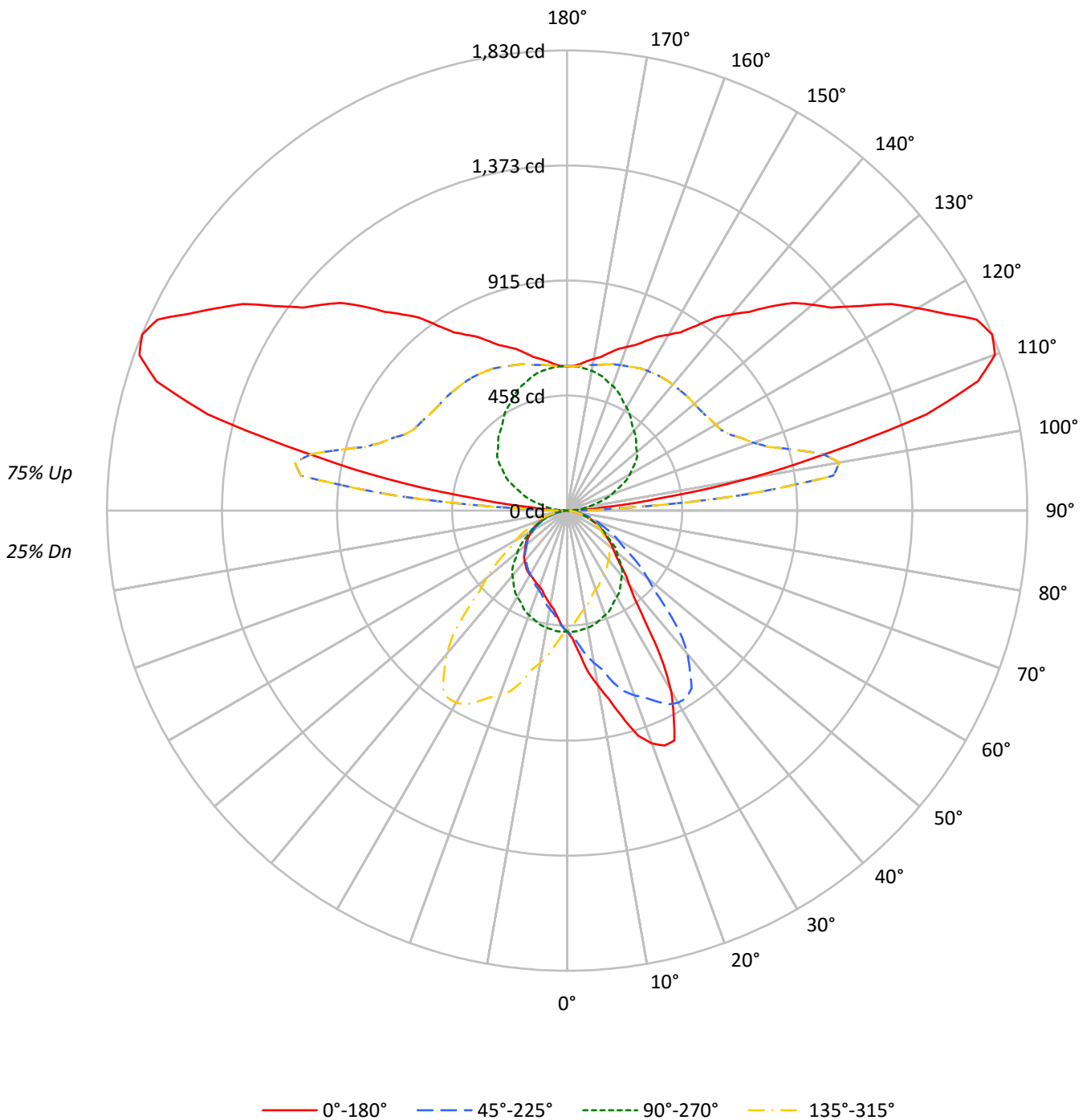
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	5175	5175	5175	5175
5°	6172	5198	4606	5198
10°	7725	5172	4161	5172
15°	9475	5129	3874	5129
20°	11287	5065	3688	5065
25°	11986	4986	3646	4986
30°	10274	4928	3665	4928
35°	7144	4846	3704	4846
40°	5382	4749	3693	4749
45°	4468	4606	3646	4606
50°	4002	4315	3612	4315
55°	3742	4001	3567	4001
60°	3511	3670	3531	3670
65°	3298	3347	3418	3347
70°	3094	2977	3254	2977
75°	2770	2608	2986	2608
80°	2424	2139	2572	2139
85°	1902	1556	1729	1556



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	0.8
10°-20°	151.9	2.6
20°-30°	254.9	4.4
30°-40°	288.6	5.0
40°-50°	258.8	4.5
50°-60°	208.9	3.6
60°-70°	145.6	2.5
70°-80°	76.5	1.3
80°-90°	23.1	0.4
90°-100°	319.4	5.5
100°-110°	904.4	15.7
110°-120°	889.7	15.4
120°-130°	709.7	12.3
130°-140°	559.5	9.7
140°-150°	417.6	7.2
150°-160°	291.1	5.0
160°-170°	171.0	3.0
170°-180°	55.6	1.0
0°-30°	454.2	7.9
0°-40°	742.8	12.9
0°-60°	1210.5	21.0
0°-90°	1455.7	25.2
90°-120°	2113.6	36.6
90°-150°	3800.4	65.8
90°-180°	4318.0	74.8
0°-180°	5773.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	481	481	481	481	481	
5°	571	481	426	481	571	59
15°	850	460	348	460	850	246
25°	1009	420	307	420	1009	443
35°	544	369	282	369	544	353
45°	294	303	240	303	294	232
55°	199	213	190	213	199	179
65°	130	131	134	131	130	129
75°	67	63	72	63	67	71
85°	15	13	14	13	15	19
90°	34	2	34	2	34	19
95°	135	40	135	40	135	243
105°	1478	135	1478	135	1478	1458
115°	1797	238	1797	238	1797	1746
125°	1418	331	1418	331	1418	1285
135°	1149	388	1149	388	1149	891
145°	898	443	898	443	898	571
155°	745	503	745	503	745	347
165°	650	550	650	550	650	186
175°	584	573	584	573	584	57
180°	574	574	574	574	574	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	510.3	509.9	509.0	509.7	508.2	506.2	506.0	504.1	498.7	498.4	496.9
5°	571.2	569.4	569.1	568.9	565.6	561.2	552.8	552.1	540.9	535.4	528.6
7.5°	650.2	651.1	647.7	644.8	634.8	628.2	619.2	607.7	594.0	580.0	570.8
10°	706.8	714.5	705.0	698.4	692.4	681.0	667.7	651.1	634.6	615.3	600.6
12.5°	767.6	771.3	769.4	763.3	753.9	736.5	713.0	694.7	679.5	647.3	634.3
15°	850.3	864.5	855.4	834.5	834.9	818.4	787.7	753.9	735.9	707.7	669.3
17.5°	938.5	940.2	936.4	918.9	907.3	884.5	856.1	823.8	787.4	753.3	712.5
20°	985.4	984.0	975.9	966.8	946.8	929.1	898.1	862.0	815.4	781.8	737.3
22.5°	1011.5	1009.2	1005.3	997.7	981.1	962.1	934.2	894.8	850.4	804.2	752.8
25°	1009.2	1012.2	1012.7	1010.6	1004.8	993.4	971.5	940.0	895.8	836.3	782.8
27.5°	917.9	922.2	934.6	945.7	958.0	970.6	968.9	953.3	920.5	869.2	803.7
30°	826.6	817.2	840.3	869.4	889.2	924.2	943.7	944.9	926.5	882.5	818.6
32.5°	699.8	710.1	720.3	756.1	799.4	838.6	877.6	908.9	912.5	883.2	827.4
35°	543.7	556.6	575.2	593.8	640.4	680.5	749.0	808.6	856.1	862.4	828.2
37.5°	438.2	444.5	456.3	475.0	505.4	553.0	605.9	681.3	750.2	801.4	803.6
40°	383.0	384.9	398.1	412.3	437.0	476.2	523.9	590.6	673.0	744.6	774.4
42.5°	341.6	345.7	351.4	365.0	384.7	414.1	458.5	513.6	589.2	671.5	729.8
45°	293.5	298.2	301.7	310.8	324.8	344.6	375.5	425.9	483.4	568.4	646.9
47.5°	261.8	262.1	264.7	271.6	281.1	296.0	317.9	350.2	403.0	472.0	552.6
50°	239.0	242.7	243.7	249.0	256.5	267.4	285.6	313.1	356.4	417.0	491.1
52.5°	223.0	224.1	226.7	230.6	237.1	245.6	261.4	282.9	316.9	368.6	436.7
55°	199.4	199.4	202.0	205.0	208.7	216.4	226.9	242.7	268.6	308.7	365.1
57.5°	177.6	178.8	180.6	181.5	184.7	189.8	198.5	210.6	229.8	260.7	305.5
60°	163.1	165.2	164.9	166.8	169.6	173.6	181.0	190.8	208.0	232.7	270.5
62.5°	150.4	150.3	150.2	152.5	155.2	159.0	163.9	172.3	187.0	208.9	241.0
65°	129.5	129.1	130.7	132.1	133.0	135.8	139.5	147.0	156.8	173.1	198.0
67.5°	111.0	109.6	110.5	111.0	112.6	114.8	118.3	122.9	130.6	143.7	162.5
70°	98.3	97.1	96.9	97.4	98.8	100.4	103.0	107.4	114.6	125.1	138.8
72.5°	85.3	84.5	84.4	85.5	86.1	87.2	89.0	93.0	98.8	106.7	119.5
75°	66.6	66.6	66.6	66.9	67.6	68.5	69.9	72.0	76.4	82.0	90.6
77.5°	49.9	49.9	49.6	49.6	50.6	51.0	51.3	53.3	55.8	59.5	65.8
80°	39.1	38.0	38.4	39.1	39.6	39.8	40.5	41.0	43.1	45.2	49.6
82.5°	29.1	28.1	28.2	29.3	29.4	29.6	30.3	30.9	31.7	33.6	36.0
85°	15.4	15.4	15.6	15.6	15.8	15.6	16.3	16.5	16.5	17.7	19.1
87.5°	12.3	12.2	12.1	12.1	12.1	11.9	11.8	11.8	11.7	12.1	11.6
90°	33.7	34.9	33.7	32.5	33.7	31.4	30.2	29.0	27.9	29.0	25.6
92.5°	56.0	58.1	56.9	60.4	62.5	68.5	77.6	97.8	134.8	178.7	196.6
95°	134.8	139.4	147.6	158.0	180.1	221.9	283.5	418.3	558.8	689.0	613.5
97.5°	366.9	376.9	408.3	460.6	546.3	685.3	835.1	1042.6	1142.3	1067.7	781.7
100°	728.5	727.3	772.6	857.4	974.8	1139.8	1275.7	1369.8	1329.2	1100.3	743.6
102.5°	1068.7	1095.4	1133.3	1200.4	1291.7	1396.3	1475.5	1478.6	1338.4	1039.9	687.8
105°	1477.9	1483.7	1520.9	1565.0	1618.5	1648.7	1626.6	1510.4	1267.6	934.1	619.3
107.5°	1713.5	1724.2	1736.7	1751.6	1750.7	1709.3	1607.5	1418.8	1143.5	840.7	575.6
110°	1810.2	1812.5	1814.8	1805.5	1773.0	1691.7	1545.3	1331.5	1065.4	787.7	558.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1829.7	1829.2	1820.4	1791.6	1732.1	1627.5	1463.5	1245.0	997.6	752.4	549.6
115°	1797.4	1791.6	1768.3	1717.2	1630.1	1503.4	1332.6	1130.5	915.5	714.5	546.1
117.5°	1694.7	1686.8	1653.3	1594.8	1503.9	1375.4	1222.0	1047.5	866.0	692.2	548.2
120°	1609.2	1602.2	1574.3	1509.2	1417.5	1300.1	1160.7	1003.8	840.0	682.0	551.9
122.5°	1529.2	1520.4	1489.7	1431.2	1349.6	1240.6	1111.4	969.4	818.6	675.5	558.4
125°	1417.5	1409.3	1380.3	1329.2	1254.8	1161.8	1050.3	923.7	791.2	666.9	568.1
127.5°	1325.4	1318.0	1291.7	1248.1	1181.8	1097.2	996.6	883.7	767.1	662.7	579.3
130°	1273.4	1264.1	1239.7	1197.9	1136.3	1057.3	963.2	858.6	754.0	659.9	586.7
132.5°	1222.3	1215.8	1194.1	1152.3	1094.5	1019.2	931.6	835.4	742.0	659.0	592.3
135°	1149.1	1140.9	1120.0	1085.2	1028.2	962.0	886.5	804.0	726.2	657.6	600.7
137.5°	1071.7	1066.3	1048.7	1013.4	965.5	908.1	843.0	775.4	712.4	655.0	606.3
140°	1017.8	1018.9	1000.4	967.8	923.7	873.7	817.9	758.7	704.1	654.1	610.0
142.5°	967.6	968.7	952.0	923.2	885.6	842.1	793.8	742.9	696.6	652.3	612.8
145°	898.1	895.8	886.5	862.1	833.0	799.4	762.2	723.8	686.7	649.5	614.6
147.5°	840.9	840.0	831.2	814.7	792.6	768.7	738.7	708.3	676.9	645.1	614.6
150°	807.5	807.5	800.5	787.7	770.3	748.2	723.8	697.1	670.4	641.3	614.6
152.5°	779.6	779.6	775.4	763.6	749.9	731.5	709.9	686.9	663.0	636.7	611.8
155°	744.7	743.6	741.3	732.0	721.5	707.6	690.1	671.5	651.8	628.6	608.8
157.5°	712.9	713.1	711.3	704.3	695.2	684.3	670.9	655.3	639.2	621.4	604.9
160°	692.5	693.6	693.6	686.7	678.5	670.4	658.8	646.0	630.9	615.8	603.0
162.5°	673.9	675.0	675.0	669.0	663.6	656.4	645.8	634.8	622.5	610.2	599.3
165°	649.5	649.5	650.6	646.0	641.3	635.5	627.4	620.4	611.1	601.8	593.7
167.5°	626.2	626.2	627.4	624.1	622.1	617.9	613.2	607.9	600.2	593.5	588.1
170°	612.3	612.3	613.5	611.1	610.0	607.6	603.0	599.5	593.7	587.9	584.4
172.5°	599.3	600.2	602.3	600.0	599.7	598.4	594.6	592.1	587.2	583.2	581.6
175°	584.4	585.6	586.7	585.6	585.6	585.6	583.2	582.1	579.8	577.4	577.4
177.5°	575.8	575.8	577.7	576.7	577.7	577.7	576.7	575.8	574.9	574.0	574.9
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	495.7	494.3	492.8	490.2	487.9	484.8	483.8	482.7	479.3	476.4	474.1
5°	526.0	520.4	512.3	504.8	498.8	490.6	486.0	481.1	474.1	467.8	462.7
7.5°	557.7	546.7	534.0	520.4	507.6	495.3	485.4	476.5	466.7	457.5	450.2
10°	582.9	567.0	549.3	530.2	513.9	498.1	484.8	473.2	460.6	449.6	440.5
12.5°	611.6	588.1	563.7	540.5	521.2	499.2	483.1	468.3	454.0	440.9	430.7
15°	645.5	615.7	586.8	554.9	525.6	498.1	479.0	460.3	443.8	430.3	417.2
17.5°	676.5	642.7	604.6	565.8	530.4	497.8	471.1	450.0	429.3	412.8	399.8
20°	694.0	655.6	612.5	572.2	533.0	496.7	467.3	442.2	419.8	402.3	387.7
22.5°	709.1	664.1	619.5	576.4	532.8	493.7	460.4	434.5	410.3	393.2	377.6
25°	724.8	670.9	626.2	575.7	527.0	486.4	449.2	419.8	395.6	375.5	359.5
27.5°	738.2	670.5	617.4	563.0	517.7	477.1	437.3	405.8	380.1	358.3	342.0
30°	747.1	671.4	608.3	554.5	508.8	466.9	428.2	396.5	369.5	347.4	332.0
32.5°	752.7	670.8	599.9	542.5	494.6	457.5	418.3	385.5	357.7	336.0	321.2
35°	756.0	666.7	585.4	517.9	471.8	435.6	402.8	368.8	339.7	319.4	302.6
37.5°	749.4	658.1	568.7	494.1	443.6	408.1	380.4	351.5	323.6	301.3	286.8
40°	739.2	652.5	555.6	477.3	424.2	390.0	366.5	338.0	310.5	289.3	275.8
42.5°	719.6	641.2	541.3	458.7	404.1	369.9	348.2	324.4	298.4	278.5	265.0
45°	671.9	616.4	519.7	430.8	374.4	339.0	319.9	302.6	279.1	259.8	248.1
47.5°	605.6	579.2	488.6	401.3	343.3	309.3	289.4	275.6	258.4	242.7	231.6
50°	559.6	548.6	467.6	381.1	322.7	289.3	270.2	257.7	245.3	229.7	219.5
52.5°	506.5	513.2	443.0	360.3	301.6	268.8	250.9	240.9	229.7	216.8	207.9
55°	431.7	456.1	400.5	325.2	270.2	239.0	222.0	213.2	206.6	197.1	189.4
57.5°	361.7	392.8	354.5	289.1	239.4	212.5	196.2	186.6	182.4	177.4	171.3
60°	320.1	350.8	321.7	264.9	218.8	193.1	178.7	170.5	166.3	162.8	157.7
62.5°	283.0	314.1	289.7	240.3	198.4	174.7	162.1	154.1	150.9	149.1	144.7
65°	232.0	258.8	242.5	202.0	169.4	148.4	137.0	131.4	128.4	127.7	124.9
67.5°	188.8	209.2	197.4	167.5	141.9	123.8	114.1	109.3	107.0	106.7	104.6
70°	160.5	179.6	170.5	143.5	121.4	107.2	98.8	94.6	93.2	93.0	91.8
72.5°	138.5	151.8	144.6	122.1	105.0	92.1	85.9	81.5	80.0	80.3	79.5
75°	102.5	112.5	108.3	92.7	79.0	70.6	65.5	62.7	61.3	62.0	61.0
77.5°	73.8	80.1	76.3	65.5	57.0	51.0	47.2	45.5	44.2	44.2	43.8
80°	55.7	59.4	57.3	50.8	43.8	38.7	35.6	34.5	33.8	33.5	33.3
82.5°	39.7	42.8	40.3	35.9	31.1	28.0	26.3	24.8	24.3	24.4	24.2
85°	20.0	21.2	20.3	17.5	15.6	14.2	13.3	12.6	12.1	12.3	11.9
87.5°	11.3	10.8	9.5	8.3	7.5	6.2	5.8	4.9	5.0	5.5	6.0
90°	22.1	18.6	15.1	12.8	10.5	7.0	4.6	2.3	4.6	7.0	10.5
92.5°	147.6	97.6	67.2	50.0	40.2	31.1	21.4	14.4	21.4	31.1	40.2
95°	422.9	249.8	151.0	105.7	75.5	55.8	43.0	39.5	43.0	55.8	75.5
97.5°	464.0	268.9	174.5	125.5	95.7	78.5	68.5	67.4	68.5	78.5	95.7
100°	438.0	266.1	184.7	139.4	111.5	95.3	87.1	86.0	87.1	95.3	111.5
102.5°	415.7	269.8	196.8	155.2	130.1	114.8	107.6	105.5	107.6	114.8	130.1
105°	399.7	280.0	217.3	181.2	159.2	145.2	138.3	134.8	138.3	145.2	159.2
107.5°	398.5	299.1	244.0	210.5	189.8	176.1	169.4	165.9	169.4	176.1	189.8
110°	403.2	314.9	262.6	230.0	210.3	197.5	191.7	188.2	191.7	197.5	210.3





TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	412.5	330.7	282.1	250.5	230.7	218.0	212.2	208.7	212.2	218.0	230.7
115°	427.6	356.7	312.5	281.2	261.4	249.8	242.8	238.2	242.8	249.8	261.4
117.5°	447.5	384.3	340.7	311.6	289.5	278.8	273.0	267.7	273.0	278.8	289.5
120°	462.4	402.0	360.2	331.1	309.1	297.4	291.6	288.1	291.6	297.4	309.1
122.5°	476.4	420.6	379.7	348.8	327.6	315.1	309.3	305.8	309.3	315.1	327.6
125°	498.4	447.3	406.6	375.3	353.2	340.4	333.5	331.1	333.5	340.4	353.2
127.5°	516.6	470.5	431.3	399.9	375.5	362.5	353.9	350.4	353.9	362.5	375.5
130°	528.6	484.5	446.1	414.8	390.4	376.4	366.0	362.5	366.0	376.4	390.4
132.5°	539.8	496.6	459.2	428.7	404.3	387.6	376.2	371.8	376.2	387.6	404.3
135°	554.2	514.7	478.7	447.3	422.9	405.5	392.7	388.1	392.7	405.5	422.9
137.5°	564.9	527.2	492.6	463.6	439.4	420.8	408.3	403.4	408.3	420.8	439.4
140°	570.5	535.6	501.9	472.9	449.6	431.0	419.4	413.6	419.4	431.0	449.6
142.5°	576.0	542.1	509.4	482.2	458.9	442.2	429.7	424.8	429.7	442.2	458.9
145°	582.1	550.7	520.5	493.8	474.0	456.6	446.1	442.7	446.1	456.6	474.0
147.5°	585.8	557.7	530.0	507.3	488.2	473.1	462.9	460.8	462.9	473.1	488.2
150°	586.7	562.3	535.6	514.7	498.4	483.3	474.0	472.9	474.0	483.3	498.4
152.5°	588.6	565.1	542.1	522.1	507.7	494.5	485.2	485.0	485.2	494.5	507.7
155°	589.1	570.5	550.7	534.4	521.7	510.1	503.1	503.1	503.1	510.1	521.7
157.5°	590.2	573.5	557.7	545.1	534.2	524.0	518.4	517.5	518.4	524.0	534.2
160°	590.2	576.3	562.3	550.7	542.6	533.3	528.6	528.6	528.6	533.3	542.6
162.5°	589.3	577.2	565.1	555.4	548.2	540.7	537.0	537.0	537.0	540.7	548.2
165°	586.7	578.6	569.3	561.2	556.5	550.7	548.4	549.6	548.4	550.7	556.5
167.5°	584.9	578.4	571.6	566.5	563.3	558.8	557.7	559.1	557.7	558.8	563.3
170°	582.1	577.4	571.6	569.3	567.0	563.5	562.3	564.7	562.3	563.5	567.0
172.5°	581.2	577.4	572.6	571.2	569.8	567.2	567.0	568.4	567.0	567.2	569.8
175°	578.6	576.3	574.0	572.8	572.8	570.5	571.6	572.8	571.6	570.5	572.8
177.5°	576.7	574.9	574.0	574.0	574.0	573.0	574.0	574.9	574.0	573.0	574.0
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	472.8	471.5	469.7	466.9	464.6	461.1	461.1	461.6	461.6	461.5	461.1
5°	458.5	455.0	450.8	445.9	440.8	435.6	434.7	432.8	431.5	430.5	429.4
7.5°	443.3	437.1	431.0	424.2	417.9	412.8	409.2	406.2	404.3	402.2	400.7
10°	433.1	425.4	418.2	411.0	403.0	396.7	392.8	390.0	387.9	386.0	385.1
12.5°	421.0	412.2	404.2	397.3	388.7	382.2	378.4	377.1	374.7	370.7	368.7
15°	403.3	395.1	385.6	375.1	370.9	363.0	358.5	356.4	355.0	352.0	351.1
17.5°	388.1	377.5	366.7	358.9	351.1	344.7	342.2	339.6	337.8	335.3	334.5
20°	376.0	366.5	356.7	348.3	340.1	333.1	331.0	329.2	327.3	326.2	325.2
22.5°	363.7	354.2	346.0	338.2	329.5	324.9	322.7	320.6	319.3	318.5	317.6
25°	346.4	338.0	328.9	322.0	315.0	311.9	310.5	309.4	308.4	307.3	307.0
27.5°	331.0	321.8	314.5	307.9	302.9	300.4	299.0	298.5	298.7	299.1	299.4
30°	319.4	311.0	305.0	299.4	294.7	292.4	292.1	292.1	293.1	293.3	293.8
32.5°	308.8	301.9	295.8	290.4	286.9	285.3	286.2	286.2	286.9	287.5	288.4
35°	293.3	287.2	282.6	277.9	274.9	275.6	276.1	276.5	277.7	279.1	280.0
37.5°	278.5	273.3	268.4	264.8	263.4	264.6	265.8	266.7	268.1	269.2	270.1
40°	267.9	263.9	259.3	256.0	256.5	257.2	258.1	259.3	260.5	261.2	262.1
42.5°	258.0	253.9	250.3	247.6	248.3	249.2	249.7	250.3	251.7	253.0	253.5
45°	243.0	239.7	236.5	234.8	235.3	235.8	236.2	236.9	238.1	239.0	239.3
47.5°	226.1	223.8	221.6	220.0	220.8	220.6	221.2	222.7	223.0	223.6	224.9
50°	215.3	213.2	210.6	210.1	210.1	210.1	210.4	212.2	212.2	213.2	214.1
52.5°	203.3	202.0	200.4	199.5	199.1	199.1	200.1	201.0	201.4	202.7	203.7
55°	185.7	184.3	182.9	182.2	181.7	182.2	184.0	184.5	185.7	186.4	187.1
57.5°	167.3	166.2	165.1	164.7	164.6	165.2	166.2	167.6	167.9	170.1	171.1
60°	155.2	153.5	152.6	152.6	152.1	154.2	153.8	156.1	156.6	158.0	159.6
62.5°	142.7	140.5	140.1	140.1	140.8	141.4	142.0	143.0	144.3	146.0	147.3
65°	122.5	121.4	123.0	122.8	122.3	123.7	123.7	124.9	126.3	127.9	130.5
67.5°	103.5	102.9	103.0	103.0	103.7	104.5	105.2	106.2	107.9	109.6	111.3
70°	90.6	91.3	90.2	91.1	91.8	92.0	92.5	93.9	95.7	96.9	98.8
72.5°	78.1	78.1	78.2	78.6	79.3	79.7	80.2	81.8	83.8	84.8	86.3
75°	60.1	59.9	60.6	60.6	61.7	62.2	62.7	63.4	65.2	66.6	67.8
77.5°	43.9	44.2	44.0	44.8	44.5	44.6	46.0	46.7	46.9	49.7	50.3
80°	33.1	33.5	33.8	34.0	34.2	33.8	35.4	36.1	36.1	37.7	38.9
82.5°	23.8	24.0	24.6	24.9	24.9	25.4	25.5	26.0	26.6	27.3	28.8
85°	11.9	12.6	12.8	12.6	12.8	12.3	13.0	13.3	13.5	13.5	13.5
87.5°	6.3	6.9	7.4	8.3	8.8	9.7	9.5	9.4	9.6	10.4	10.1
90°	12.8	15.1	18.6	22.1	25.6	29.0	27.9	29.0	30.2	31.4	33.7
92.5°	50.0	67.2	97.6	147.6	196.6	178.7	134.8	97.8	77.6	68.5	62.5
95°	105.7	151.0	249.8	422.9	613.5	689.0	558.8	418.3	283.5	221.9	180.1
97.5°	125.5	174.5	268.9	464.0	781.7	1067.7	1142.3	1042.6	835.1	685.3	546.3
100°	139.4	184.7	266.1	438.0	743.6	1100.3	1329.2	1369.8	1275.7	1139.8	974.8
102.5°	155.2	196.8	269.8	415.7	687.8	1039.9	1338.4	1478.6	1475.5	1396.3	1291.7
105°	181.2	217.3	280.0	399.7	619.3	934.1	1267.6	1510.4	1626.6	1648.7	1618.5
107.5°	210.5	244.0	299.1	398.5	575.6	840.7	1143.5	1418.8	1607.5	1709.3	1750.7
110°	230.0	262.6	314.9	403.2	558.8	787.7	1065.4	1331.5	1545.3	1691.7	1773.0



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	250.5	282.1	330.7	412.5	549.6	752.4	997.6	1245.0	1463.5	1627.5	1732.1
115°	281.2	312.5	356.7	427.6	546.1	714.5	915.5	1130.5	1332.6	1503.4	1630.1
117.5°	311.6	340.7	384.3	447.5	548.2	692.2	866.0	1047.5	1222.0	1375.4	1503.9
120°	331.1	360.2	402.0	462.4	551.9	682.0	840.0	1003.8	1160.7	1300.1	1417.5
122.5°	348.8	379.7	420.6	476.4	558.4	675.5	818.6	969.4	1111.4	1240.6	1349.6
125°	375.3	406.6	447.3	498.4	568.1	666.9	791.2	923.7	1050.3	1161.8	1254.8
127.5°	399.9	431.3	470.5	516.6	579.3	662.7	767.1	883.7	996.6	1097.2	1181.8
130°	414.8	446.1	484.5	528.6	586.7	659.9	754.0	858.6	963.2	1057.3	1136.3
132.5°	428.7	459.2	496.6	539.8	592.3	659.0	742.0	835.4	931.6	1019.2	1094.5
135°	447.3	478.7	514.7	554.2	600.7	657.6	726.2	804.0	886.5	962.0	1028.2
137.5°	463.6	492.6	527.2	564.9	606.3	655.0	712.4	775.4	843.0	908.1	965.5
140°	472.9	501.9	535.6	570.5	610.0	654.1	704.1	758.7	817.9	873.7	923.7
142.5°	482.2	509.4	542.1	576.0	612.8	652.3	696.6	742.9	793.8	842.1	885.6
145°	493.8	520.5	550.7	582.1	614.6	649.5	686.7	723.8	762.2	799.4	833.0
147.5°	507.3	530.0	557.7	585.8	614.6	645.1	676.9	708.3	738.7	768.7	792.6
150°	514.7	535.6	562.3	586.7	614.6	641.3	670.4	697.1	723.8	748.2	770.3
152.5°	522.1	542.1	565.1	588.6	611.8	636.7	663.0	686.9	709.9	731.5	749.9
155°	534.4	550.7	570.5	589.1	608.8	628.6	651.8	671.5	690.1	707.6	721.5
157.5°	545.1	557.7	573.5	590.2	604.9	621.4	639.2	655.3	670.9	684.3	695.2
160°	550.7	562.3	576.3	590.2	603.0	615.8	630.9	646.0	658.8	670.4	678.5
162.5°	555.4	565.1	577.2	589.3	599.3	610.2	622.5	634.8	645.8	656.4	663.6
165°	561.2	569.3	578.6	586.7	593.7	601.8	611.1	620.4	627.4	635.5	641.3
167.5°	566.5	571.6	578.4	584.9	588.1	593.5	600.2	607.9	613.2	617.9	622.1
170°	569.3	571.6	577.4	582.1	584.4	587.9	593.7	599.5	603.0	607.6	610.0
172.5°	571.2	572.6	577.4	581.2	581.6	583.2	587.2	592.1	594.6	598.4	599.7
175°	572.8	574.0	576.3	578.6	577.4	577.4	579.8	582.1	583.2	585.6	585.6
177.5°	574.0	574.0	574.9	576.7	574.9	574.0	574.9	575.8	576.7	577.7	577.7
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	459.8	459.6	460.9	460.0	460.9	459.6	459.8	461.1	461.5	461.6	461.6
5°	428.0	428.7	426.3	426.3	426.3	428.7	428.0	429.4	430.5	431.5	432.8
7.5°	399.6	398.6	398.7	397.4	398.7	398.6	399.6	400.7	402.2	404.3	406.2
10°	382.3	380.9	380.4	380.7	380.4	380.9	382.3	385.1	386.0	387.9	390.0
12.5°	367.9	367.7	364.6	364.6	364.6	367.7	367.9	368.7	370.7	374.7	377.1
15°	351.1	346.7	346.2	347.6	346.2	346.7	351.1	351.1	352.0	355.0	356.4
17.5°	334.2	331.8	332.0	331.3	332.0	331.8	334.2	334.5	335.3	337.8	339.6
20°	325.2	323.8	323.6	322.0	323.6	323.8	325.2	325.2	326.2	327.3	329.2
22.5°	317.0	316.6	316.7	314.9	316.7	316.6	317.0	317.6	318.5	319.3	320.6
25°	306.8	308.0	307.0	307.0	307.0	308.0	306.8	307.0	307.3	308.4	309.4
27.5°	299.9	299.9	299.4	299.4	299.4	299.9	299.9	299.4	299.1	298.7	298.5
30°	294.7	294.5	294.9	294.9	294.9	294.5	294.7	293.8	293.3	293.1	292.1
32.5°	289.5	289.8	289.9	290.1	289.9	289.8	289.5	288.4	287.5	286.9	286.2
35°	281.4	281.7	282.4	281.9	282.4	281.7	281.4	280.0	279.1	277.7	276.5
37.5°	270.5	271.6	271.4	271.7	271.4	271.6	270.5	270.1	269.2	268.1	266.7
40°	262.3	263.0	262.8	262.8	262.8	263.0	262.3	262.1	261.2	260.5	259.3
42.5°	253.9	254.4	253.8	253.5	253.8	254.4	253.9	253.5	253.0	251.7	250.3
45°	240.2	239.7	240.4	239.5	240.4	239.7	240.2	239.3	239.0	238.1	236.9
47.5°	224.8	225.3	225.5	226.2	225.5	225.3	224.8	224.9	223.6	223.0	222.7
50°	214.6	216.0	216.0	215.7	216.0	216.0	214.6	214.1	213.2	212.2	212.2
52.5°	204.5	205.1	206.1	206.0	206.1	205.1	204.5	203.7	202.7	201.4	201.0
55°	188.9	189.4	189.9	190.1	189.9	189.4	188.9	187.1	186.4	185.7	184.5
57.5°	172.8	172.6	173.7	174.1	173.7	172.6	172.8	171.1	170.1	167.9	167.6
60°	161.4	161.4	163.3	164.0	163.3	161.4	161.4	159.6	158.0	156.6	156.1
62.5°	149.3	150.1	151.9	151.0	151.9	150.1	149.3	147.3	146.0	144.3	143.0
65°	131.6	133.5	133.3	134.2	133.3	133.5	131.6	130.5	127.9	126.3	124.9
67.5°	113.1	114.3	116.0	116.1	116.0	114.3	113.1	111.3	109.6	107.9	106.2
70°	100.6	101.8	102.7	103.4	102.7	101.8	100.6	98.8	96.9	95.7	93.9
72.5°	88.5	89.1	91.4	90.4	91.4	89.1	88.5	86.3	84.8	83.8	81.8
75°	69.4	71.1	72.5	71.8	72.5	71.1	69.4	67.8	66.6	65.2	63.4
77.5°	51.3	53.0	53.6	53.0	53.6	53.0	51.3	50.3	49.7	46.9	46.7
80°	40.5	40.3	41.7	41.5	41.7	40.3	40.5	38.9	37.7	36.1	36.1
82.5°	29.7	29.5	30.1	30.3	30.1	29.5	29.7	28.8	27.3	26.6	26.0
85°	14.4	15.1	14.2	14.0	14.2	15.1	14.4	13.5	13.5	13.5	13.3
87.5°	9.9	10.1	10.1	9.7	10.1	10.1	9.9	10.1	10.4	9.6	9.4
90°	32.5	33.7	34.9	33.7	34.9	33.7	32.5	33.7	31.4	30.2	29.0
92.5°	60.4	56.9	58.1	56.0	58.1	56.9	60.4	62.5	68.5	77.6	97.8
95°	158.0	147.6	139.4	134.8	139.4	147.6	158.0	180.1	221.9	283.5	418.3
97.5°	460.6	408.3	376.9	366.9	376.9	408.3	460.6	546.3	685.3	835.1	1042.6
100°	857.4	772.6	727.3	728.5	727.3	772.6	857.4	974.8	1139.8	1275.7	1369.8
102.5°	1200.4	1133.3	1095.4	1068.7	1095.4	1133.3	1200.4	1291.7	1396.3	1475.5	1478.6
105°	1565.0	1520.9	1483.7	1477.9	1483.7	1520.9	1565.0	1618.5	1648.7	1626.6	1510.4
107.5°	1751.6	1736.7	1724.2	1713.5	1724.2	1736.7	1751.6	1750.7	1709.3	1607.5	1418.8
110°	1805.5	1814.8	1812.5	1810.2	1812.5	1814.8	1805.5	1773.0	1691.7	1545.3	1331.5



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1791.6	1820.4	1829.2	1829.7	1829.2	1820.4	1791.6	1732.1	1627.5	1463.5	1245.0
115°	1717.2	1768.3	1791.6	1797.4	1791.6	1768.3	1717.2	1630.1	1503.4	1332.6	1130.5
117.5°	1594.8	1653.3	1686.8	1694.7	1686.8	1653.3	1594.8	1503.9	1375.4	1222.0	1047.5
120°	1509.2	1574.3	1602.2	1609.2	1602.2	1574.3	1509.2	1417.5	1300.1	1160.7	1003.8
122.5°	1431.2	1489.7	1520.4	1529.2	1520.4	1489.7	1431.2	1349.6	1240.6	1111.4	969.4
125°	1329.2	1380.3	1409.3	1417.5	1409.3	1380.3	1329.2	1254.8	1161.8	1050.3	923.7
127.5°	1248.1	1291.7	1318.0	1325.4	1318.0	1291.7	1248.1	1181.8	1097.2	996.6	883.7
130°	1197.9	1239.7	1264.1	1273.4	1264.1	1239.7	1197.9	1136.3	1057.3	963.2	858.6
132.5°	1152.3	1194.1	1215.8	1222.3	1215.8	1194.1	1152.3	1094.5	1019.2	931.6	835.4
135°	1085.2	1120.0	1140.9	1149.1	1140.9	1120.0	1085.2	1028.2	962.0	886.5	804.0
137.5°	1013.4	1048.7	1066.3	1071.7	1066.3	1048.7	1013.4	965.5	908.1	843.0	775.4
140°	967.8	1000.4	1018.9	1017.8	1018.9	1000.4	967.8	923.7	873.7	817.9	758.7
142.5°	923.2	952.0	968.7	967.6	968.7	952.0	923.2	885.6	842.1	793.8	742.9
145°	862.1	886.5	895.8	898.1	895.8	886.5	862.1	833.0	799.4	762.2	723.8
147.5°	814.7	831.2	840.0	840.9	840.0	831.2	814.7	792.6	768.7	738.7	708.3
150°	787.7	800.5	807.5	807.5	807.5	800.5	787.7	770.3	748.2	723.8	697.1
152.5°	763.6	775.4	779.6	779.6	779.6	775.4	763.6	749.9	731.5	709.9	686.9
155°	732.0	741.3	743.6	744.7	743.6	741.3	732.0	721.5	707.6	690.1	671.5
157.5°	704.3	711.3	713.1	712.9	713.1	711.3	704.3	695.2	684.3	670.9	655.3
160°	686.7	693.6	693.6	692.5	693.6	693.6	686.7	678.5	670.4	658.8	646.0
162.5°	669.0	675.0	675.0	673.9	675.0	675.0	669.0	663.6	656.4	645.8	634.8
165°	646.0	650.6	649.5	649.5	649.5	650.6	646.0	641.3	635.5	627.4	620.4
167.5°	624.1	627.4	626.2	626.2	626.2	627.4	624.1	622.1	617.9	613.2	607.9
170°	611.1	613.5	612.3	612.3	612.3	613.5	611.1	610.0	607.6	603.0	599.5
172.5°	600.0	602.3	600.2	599.3	600.2	602.3	600.0	599.7	598.4	594.6	592.1
175°	585.6	586.7	585.6	584.4	585.6	586.7	585.6	585.6	585.6	583.2	582.1
177.5°	576.7	577.7	575.8	575.8	575.8	577.7	576.7	577.7	577.7	576.7	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	461.1	461.1	464.6	466.9	469.7	471.5	472.8	474.1	476.4	479.3	482.7
5°	434.7	435.6	440.8	445.9	450.8	455.0	458.5	462.7	467.8	474.1	481.1
7.5°	409.2	412.8	417.9	424.2	431.0	437.1	443.3	450.2	457.5	466.7	476.5
10°	392.8	396.7	403.0	411.0	418.2	425.4	433.1	440.5	449.6	460.6	473.2
12.5°	378.4	382.2	388.7	397.3	404.2	412.2	421.0	430.7	440.9	454.0	468.3
15°	358.5	363.0	370.9	375.1	385.6	395.1	403.3	417.2	430.3	443.8	460.3
17.5°	342.2	344.7	351.1	358.9	366.7	377.5	388.1	399.8	412.8	429.3	450.0
20°	331.0	333.1	340.1	348.3	356.7	366.5	376.0	387.7	402.3	419.8	442.2
22.5°	322.7	324.9	329.5	338.2	346.0	354.2	363.7	377.6	393.2	410.3	434.5
25°	310.5	311.9	315.0	322.0	328.9	338.0	346.4	359.5	375.5	395.6	419.8
27.5°	299.0	300.4	302.9	307.9	314.5	321.8	331.0	342.0	358.3	380.1	405.8
30°	292.1	292.4	294.7	299.4	305.0	311.0	319.4	332.0	347.4	369.5	396.5
32.5°	286.2	285.3	286.9	290.4	295.8	301.9	308.8	321.2	336.0	357.7	385.5
35°	276.1	275.6	274.9	277.9	282.6	287.2	293.3	302.6	319.4	339.7	368.8
37.5°	265.8	264.6	263.4	264.8	268.4	273.3	278.5	286.8	301.3	323.6	351.5
40°	258.1	257.2	256.5	256.0	259.3	263.9	267.9	275.8	289.3	310.5	338.0
42.5°	249.7	249.2	248.3	247.6	250.3	253.9	258.0	265.0	278.5	298.4	324.4
45°	236.2	235.8	235.3	234.8	236.5	239.7	243.0	248.1	259.8	279.1	302.6
47.5°	221.2	220.6	220.8	220.0	221.6	223.8	226.1	231.6	242.7	258.4	275.6
50°	210.4	210.1	210.1	210.1	210.6	213.2	215.3	219.5	229.7	245.3	257.7
52.5°	200.1	199.1	199.1	199.5	200.4	202.0	203.3	207.9	216.8	229.7	240.9
55°	184.0	182.2	181.7	182.2	182.9	184.3	185.7	189.4	197.1	206.6	213.2
57.5°	166.2	165.2	164.6	164.7	165.1	166.2	167.3	171.3	177.4	182.4	186.6
60°	153.8	154.2	152.1	152.6	152.6	153.5	155.2	157.7	162.8	166.3	170.5
62.5°	142.0	141.4	140.8	140.1	140.1	140.5	142.7	144.7	149.1	150.9	154.1
65°	123.7	123.7	122.3	122.8	123.0	121.4	122.5	124.9	127.7	128.4	131.4
67.5°	105.2	104.5	103.7	103.0	103.0	102.9	103.5	104.6	106.7	107.0	109.3
70°	92.5	92.0	91.8	91.1	90.2	91.3	90.6	91.8	93.0	93.2	94.6
72.5°	80.2	79.7	79.3	78.6	78.2	78.1	78.1	79.5	80.3	80.0	81.5
75°	62.7	62.2	61.7	60.6	60.6	59.9	60.1	61.0	62.0	61.3	62.7
77.5°	46.0	44.6	44.5	44.8	44.0	44.2	43.9	43.8	44.2	44.2	45.5
80°	35.4	33.8	34.2	34.0	33.8	33.5	33.1	33.3	33.5	33.8	34.5
82.5°	25.5	25.4	24.9	24.9	24.6	24.0	23.8	24.2	24.4	24.3	24.8
85°	13.0	12.3	12.8	12.6	12.8	12.6	11.9	11.9	12.3	12.1	12.6
87.5°	9.5	9.7	8.8	8.3	7.4	6.9	6.3	6.0	5.5	5.0	4.9
90°	27.9	29.0	25.6	22.1	18.6	15.1	12.8	10.5	7.0	4.6	2.3
92.5°	134.8	178.7	196.6	147.6	97.6	67.2	50.0	40.2	31.1	21.4	14.4
95°	558.8	689.0	613.5	422.9	249.8	151.0	105.7	75.5	55.8	43.0	39.5
97.5°	1142.3	1067.7	781.7	464.0	268.9	174.5	125.5	95.7	78.5	68.5	67.4
100°	1329.2	1100.3	743.6	438.0	266.1	184.7	139.4	111.5	95.3	87.1	86.0
102.5°	1338.4	1039.9	687.8	415.7	269.8	196.8	155.2	130.1	114.8	107.6	105.5
105°	1267.6	934.1	619.3	399.7	280.0	217.3	181.2	159.2	145.2	138.3	134.8
107.5°	1143.5	840.7	575.6	398.5	299.1	244.0	210.5	189.8	176.1	169.4	165.9
110°	1065.4	787.7	558.8	403.2	314.9	262.6	230.0	210.3	197.5	191.7	188.2



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	997.6	752.4	549.6	412.5	330.7	282.1	250.5	230.7	218.0	212.2	208.7
115°	915.5	714.5	546.1	427.6	356.7	312.5	281.2	261.4	249.8	242.8	238.2
117.5°	866.0	692.2	548.2	447.5	384.3	340.7	311.6	289.5	278.8	273.0	267.7
120°	840.0	682.0	551.9	462.4	402.0	360.2	331.1	309.1	297.4	291.6	288.1
122.5°	818.6	675.5	558.4	476.4	420.6	379.7	348.8	327.6	315.1	309.3	305.8
125°	791.2	666.9	568.1	498.4	447.3	406.6	375.3	353.2	340.4	333.5	331.1
127.5°	767.1	662.7	579.3	516.6	470.5	431.3	399.9	375.5	362.5	353.9	350.4
130°	754.0	659.9	586.7	528.6	484.5	446.1	414.8	390.4	376.4	366.0	362.5
132.5°	742.0	659.0	592.3	539.8	496.6	459.2	428.7	404.3	387.6	376.2	371.8
135°	726.2	657.6	600.7	554.2	514.7	478.7	447.3	422.9	405.5	392.7	388.1
137.5°	712.4	655.0	606.3	564.9	527.2	492.6	463.6	439.4	420.8	408.3	403.4
140°	704.1	654.1	610.0	570.5	535.6	501.9	472.9	449.6	431.0	419.4	413.6
142.5°	696.6	652.3	612.8	576.0	542.1	509.4	482.2	458.9	442.2	429.7	424.8
145°	686.7	649.5	614.6	582.1	550.7	520.5	493.8	474.0	456.6	446.1	442.7
147.5°	676.9	645.1	614.6	585.8	557.7	530.0	507.3	488.2	473.1	462.9	460.8
150°	670.4	641.3	614.6	586.7	562.3	535.6	514.7	498.4	483.3	474.0	472.9
152.5°	663.0	636.7	611.8	588.6	565.1	542.1	522.1	507.7	494.5	485.2	485.0
155°	651.8	628.6	608.8	589.1	570.5	550.7	534.4	521.7	510.1	503.1	503.1
157.5°	639.2	621.4	604.9	590.2	573.5	557.7	545.1	534.2	524.0	518.4	517.5
160°	630.9	615.8	603.0	590.2	576.3	562.3	550.7	542.6	533.3	528.6	528.6
162.5°	622.5	610.2	599.3	589.3	577.2	565.1	555.4	548.2	540.7	537.0	537.0
165°	611.1	601.8	593.7	586.7	578.6	569.3	561.2	556.5	550.7	548.4	549.6
167.5°	600.2	593.5	588.1	584.9	578.4	571.6	566.5	563.3	558.8	557.7	559.1
170°	593.7	587.9	584.4	582.1	577.4	571.6	569.3	567.0	563.5	562.3	564.7
172.5°	587.2	583.2	581.6	581.2	577.4	572.6	571.2	569.8	567.2	567.0	568.4
175°	579.8	577.4	577.4	578.6	576.3	574.0	572.8	572.8	570.5	571.6	572.8
177.5°	574.9	574.0	574.9	576.7	574.9	574.0	574.0	574.0	573.0	574.0	574.9
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.8	484.8	487.9	490.2	492.8	494.3	495.7	496.9	498.4	498.7	504.1
5°	486.0	490.6	498.8	504.8	512.3	520.4	526.0	528.6	535.4	540.9	552.1
7.5°	485.4	495.3	507.6	520.4	534.0	546.7	557.7	570.8	580.0	594.0	607.7
10°	484.8	498.1	513.9	530.2	549.3	567.0	582.9	600.6	615.3	634.6	651.1
12.5°	483.1	499.2	521.2	540.5	563.7	588.1	611.6	634.3	647.3	679.5	694.7
15°	479.0	498.1	525.6	554.9	586.8	615.7	645.5	669.3	707.7	735.9	753.9
17.5°	471.1	497.8	530.4	565.8	604.6	642.7	676.5	712.5	753.3	787.4	823.8
20°	467.3	496.7	533.0	572.2	612.5	655.6	694.0	737.3	781.8	815.4	862.0
22.5°	460.4	493.7	532.8	576.4	619.5	664.1	709.1	752.8	804.2	850.4	894.8
25°	449.2	486.4	527.0	575.7	626.2	670.9	724.8	782.8	836.3	895.8	940.0
27.5°	437.3	477.1	517.7	563.0	617.4	670.5	738.2	803.7	869.2	920.5	953.3
30°	428.2	466.9	508.8	554.5	608.3	671.4	747.1	818.6	882.5	926.5	944.9
32.5°	418.3	457.5	494.6	542.5	599.9	670.8	752.7	827.4	883.2	912.5	908.9
35°	402.8	435.6	471.8	517.9	585.4	666.7	756.0	828.2	862.4	856.1	808.6
37.5°	380.4	408.1	443.6	494.1	568.7	658.1	749.4	803.6	801.4	750.2	681.3
40°	366.5	390.0	424.2	477.3	555.6	652.5	739.2	774.4	744.6	673.0	590.6
42.5°	348.2	369.9	404.1	458.7	541.3	641.2	719.6	729.8	671.5	589.2	513.6
45°	319.9	339.0	374.4	430.8	519.7	616.4	671.9	646.9	568.4	483.4	425.9
47.5°	289.4	309.3	343.3	401.3	488.6	579.2	605.6	552.6	472.0	403.0	350.2
50°	270.2	289.3	322.7	381.1	467.6	548.6	559.6	491.1	417.0	356.4	313.1
52.5°	250.9	268.8	301.6	360.3	443.0	513.2	506.5	436.7	368.6	316.9	282.9
55°	222.0	239.0	270.2	325.2	400.5	456.1	431.7	365.1	308.7	268.6	242.7
57.5°	196.2	212.5	239.4	289.1	354.5	392.8	361.7	305.5	260.7	229.8	210.6
60°	178.7	193.1	218.8	264.9	321.7	350.8	320.1	270.5	232.7	208.0	190.8
62.5°	162.1	174.7	198.4	240.3	289.7	314.1	283.0	241.0	208.9	187.0	172.3
65°	137.0	148.4	169.4	202.0	242.5	258.8	232.0	198.0	173.1	156.8	147.0
67.5°	114.1	123.8	141.9	167.5	197.4	209.2	188.8	162.5	143.7	130.6	122.9
70°	98.8	107.2	121.4	143.5	170.5	179.6	160.5	138.8	125.1	114.6	107.4
72.5°	85.9	92.1	105.0	122.1	144.6	151.8	138.5	119.5	106.7	98.8	93.0
75°	65.5	70.6	79.0	92.7	108.3	112.5	102.5	90.6	82.0	76.4	72.0
77.5°	47.2	51.0	57.0	65.5	76.3	80.1	73.8	65.8	59.5	55.8	53.3
80°	35.6	38.7	43.8	50.8	57.3	59.4	55.7	49.6	45.2	43.1	41.0
82.5°	26.3	28.0	31.1	35.9	40.3	42.8	39.7	36.0	33.6	31.7	30.9
85°	13.3	14.2	15.6	17.5	20.3	21.2	20.0	19.1	17.7	16.5	16.5
87.5°	5.8	6.2	7.5	8.3	9.5	10.8	11.3	11.6	12.1	11.7	11.8
90°	4.6	7.0	10.5	12.8	15.1	18.6	22.1	25.6	29.0	27.9	29.0
92.5°	21.4	31.1	40.2	50.0	67.2	97.6	147.6	196.6	178.7	134.8	97.8
95°	43.0	55.8	75.5	105.7	151.0	249.8	422.9	613.5	689.0	558.8	418.3
97.5°	68.5	78.5	95.7	125.5	174.5	268.9	464.0	781.7	1067.7	1142.3	1042.6
100°	87.1	95.3	111.5	139.4	184.7	266.1	438.0	743.6	1100.3	1329.2	1369.8
102.5°	107.6	114.8	130.1	155.2	196.8	269.8	415.7	687.8	1039.9	1338.4	1478.6
105°	138.3	145.2	159.2	181.2	217.3	280.0	399.7	619.3	934.1	1267.6	1510.4
107.5°	169.4	176.1	189.8	210.5	244.0	299.1	398.5	575.6	840.7	1143.5	1418.8
110°	191.7	197.5	210.3	230.0	262.6	314.9	403.2	558.8	787.7	1065.4	1331.5





TEST NUMBER: P331903

CATALOG NUMBER: S123DIP-S340D1195U835-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	212.2	218.0	230.7	250.5	282.1	330.7	412.5	549.6	752.4	997.6	1245.0
115°	242.8	249.8	261.4	281.2	312.5	356.7	427.6	546.1	714.5	915.5	1130.5
117.5°	273.0	278.8	289.5	311.6	340.7	384.3	447.5	548.2	692.2	866.0	1047.5
120°	291.6	297.4	309.1	331.1	360.2	402.0	462.4	551.9	682.0	840.0	1003.8
122.5°	309.3	315.1	327.6	348.8	379.7	420.6	476.4	558.4	675.5	818.6	969.4
125°	333.5	340.4	353.2	375.3	406.6	447.3	498.4	568.1	666.9	791.2	923.7
127.5°	353.9	362.5	375.5	399.9	431.3	470.5	516.6	579.3	662.7	767.1	883.7
130°	366.0	376.4	390.4	414.8	446.1	484.5	528.6	586.7	659.9	754.0	858.6
132.5°	376.2	387.6	404.3	428.7	459.2	496.6	539.8	592.3	659.0	742.0	835.4
135°	392.7	405.5	422.9	447.3	478.7	514.7	554.2	600.7	657.6	726.2	804.0
137.5°	408.3	420.8	439.4	463.6	492.6	527.2	564.9	606.3	655.0	712.4	775.4
140°	419.4	431.0	449.6	472.9	501.9	535.6	570.5	610.0	654.1	704.1	758.7
142.5°	429.7	442.2	458.9	482.2	509.4	542.1	576.0	612.8	652.3	696.6	742.9
145°	446.1	456.6	474.0	493.8	520.5	550.7	582.1	614.6	649.5	686.7	723.8
147.5°	462.9	473.1	488.2	507.3	530.0	557.7	585.8	614.6	645.1	676.9	708.3
150°	474.0	483.3	498.4	514.7	535.6	562.3	586.7	614.6	641.3	670.4	697.1
152.5°	485.2	494.5	507.7	522.1	542.1	565.1	588.6	611.8	636.7	663.0	686.9
155°	503.1	510.1	521.7	534.4	550.7	570.5	589.1	608.8	628.6	651.8	671.5
157.5°	518.4	524.0	534.2	545.1	557.7	573.5	590.2	604.9	621.4	639.2	655.3
160°	528.6	533.3	542.6	550.7	562.3	576.3	590.2	603.0	615.8	630.9	646.0
162.5°	537.0	540.7	548.2	555.4	565.1	577.2	589.3	599.3	610.2	622.5	634.8
165°	548.4	550.7	556.5	561.2	569.3	578.6	586.7	593.7	601.8	611.1	620.4
167.5°	557.7	558.8	563.3	566.5	571.6	578.4	584.9	588.1	593.5	600.2	607.9
170°	562.3	563.5	567.0	569.3	571.6	577.4	582.1	584.4	587.9	593.7	599.5
172.5°	567.0	567.2	569.8	571.2	572.6	577.4	581.2	581.6	583.2	587.2	592.1
175°	571.6	570.5	572.8	572.8	574.0	576.3	578.6	577.4	577.4	579.8	582.1
177.5°	574.0	573.0	574.0	574.0	574.0	574.9	576.7	574.9	574.0	574.9	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0	574.0



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	506.0	506.2	508.2	509.7	509.0	509.9	510.3
5°	552.8	561.2	565.6	568.9	569.1	569.4	571.2
7.5°	619.2	628.2	634.8	644.8	647.7	651.1	650.2
10°	667.7	681.0	692.4	698.4	705.0	714.5	706.8
12.5°	713.0	736.5	753.9	763.3	769.4	771.3	767.6
15°	787.7	818.4	834.9	834.5	855.4	864.5	850.3
17.5°	856.1	884.5	907.3	918.9	936.4	940.2	938.5
20°	898.1	929.1	946.8	966.8	975.9	984.0	985.4
22.5°	934.2	962.1	981.1	997.7	1005.3	1009.2	1011.5
25°	971.5	993.4	1004.8	1010.6	1012.7	1012.2	1009.2
27.5°	968.9	970.6	958.0	945.7	934.6	922.2	917.9
30°	943.7	924.2	889.2	869.4	840.3	817.2	826.6
32.5°	877.6	838.6	799.4	756.1	720.3	710.1	699.8
35°	749.0	680.5	640.4	593.8	575.2	556.6	543.7
37.5°	605.9	553.0	505.4	475.0	456.3	444.5	438.2
40°	523.9	476.2	437.0	412.3	398.1	384.9	383.0
42.5°	458.5	414.1	384.7	365.0	351.4	345.7	341.6
45°	375.5	344.6	324.8	310.8	301.7	298.2	293.5
47.5°	317.9	296.0	281.1	271.6	264.7	262.1	261.8
50°	285.6	267.4	256.5	249.0	243.7	242.7	239.0
52.5°	261.4	245.6	237.1	230.6	226.7	224.1	223.0
55°	226.9	216.4	208.7	205.0	202.0	199.4	199.4
57.5°	198.5	189.8	184.7	181.5	180.6	178.8	177.6
60°	181.0	173.6	169.6	166.8	164.9	165.2	163.1
62.5°	163.9	159.0	155.2	152.5	150.2	150.3	150.4
65°	139.5	135.8	133.0	132.1	130.7	129.1	129.5
67.5°	118.3	114.8	112.6	111.0	110.5	109.6	111.0
70°	103.0	100.4	98.8	97.4	96.9	97.1	98.3
72.5°	89.0	87.2	86.1	85.5	84.4	84.5	85.3
75°	69.9	68.5	67.6	66.9	66.6	66.6	66.6
77.5°	51.3	51.0	50.6	49.6	49.6	49.9	49.9
80°	40.5	39.8	39.6	39.1	38.4	38.0	39.1
82.5°	30.3	29.6	29.4	29.3	28.2	28.1	29.1
85°	16.3	15.6	15.8	15.6	15.6	15.4	15.4
87.5°	11.8	11.9	12.1	12.1	12.1	12.2	12.3
90°	30.2	31.4	33.7	32.5	33.7	34.9	33.7
92.5°	77.6	68.5	62.5	60.4	56.9	58.1	56.0
95°	283.5	221.9	180.1	158.0	147.6	139.4	134.8
97.5°	835.1	685.3	546.3	460.6	408.3	376.9	366.9
100°	1275.7	1139.8	974.8	857.4	772.6	727.3	728.5
102.5°	1475.5	1396.3	1291.7	1200.4	1133.3	1095.4	1068.7
105°	1626.6	1648.7	1618.5	1565.0	1520.9	1483.7	1477.9
107.5°	1607.5	1709.3	1750.7	1751.6	1736.7	1724.2	1713.5
110°	1545.3	1691.7	1773.0	1805.5	1814.8	1812.5	1810.2



TEST NUMBER: P331903

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1463.5	1627.5	1732.1	1791.6	1820.4	1829.2	1829.7
115°	1332.6	1503.4	1630.1	1717.2	1768.3	1791.6	1797.4
117.5°	1222.0	1375.4	1503.9	1594.8	1653.3	1686.8	1694.7
120°	1160.7	1300.1	1417.5	1509.2	1574.3	1602.2	1609.2
122.5°	1111.4	1240.6	1349.6	1431.2	1489.7	1520.4	1529.2
125°	1050.3	1161.8	1254.8	1329.2	1380.3	1409.3	1417.5
127.5°	996.6	1097.2	1181.8	1248.1	1291.7	1318.0	1325.4
130°	963.2	1057.3	1136.3	1197.9	1239.7	1264.1	1273.4
132.5°	931.6	1019.2	1094.5	1152.3	1194.1	1215.8	1222.3
135°	886.5	962.0	1028.2	1085.2	1120.0	1140.9	1149.1
137.5°	843.0	908.1	965.5	1013.4	1048.7	1066.3	1071.7
140°	817.9	873.7	923.7	967.8	1000.4	1018.9	1017.8
142.5°	793.8	842.1	885.6	923.2	952.0	968.7	967.6
145°	762.2	799.4	833.0	862.1	886.5	895.8	898.1
147.5°	738.7	768.7	792.6	814.7	831.2	840.0	840.9
150°	723.8	748.2	770.3	787.7	800.5	807.5	807.5
152.5°	709.9	731.5	749.9	763.6	775.4	779.6	779.6
155°	690.1	707.6	721.5	732.0	741.3	743.6	744.7
157.5°	670.9	684.3	695.2	704.3	711.3	713.1	712.9
160°	658.8	670.4	678.5	686.7	693.6	693.6	692.5
162.5°	645.8	656.4	663.6	669.0	675.0	675.0	673.9
165°	627.4	635.5	641.3	646.0	650.6	649.5	649.5
167.5°	613.2	617.9	622.1	624.1	627.4	626.2	626.2
170°	603.0	607.6	610.0	611.1	613.5	612.3	612.3
172.5°	594.6	598.4	599.7	600.0	602.3	600.2	599.3
175°	583.2	585.6	585.6	585.6	586.7	585.6	584.4
177.5°	576.7	577.7	577.7	576.7	577.7	575.8	575.8
180°	574.0	574.0	574.0	574.0	574.0	574.0	574.0

(END OF REPORT)