

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: P331903-940

Luminaire Tested: **S123DIP-S340D1195U940-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P331903-940  
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-S340D1195U940-4F0-1E-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: 5148.6 lumens  
Efficiency: N/A  
Efficacy: 122.0 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

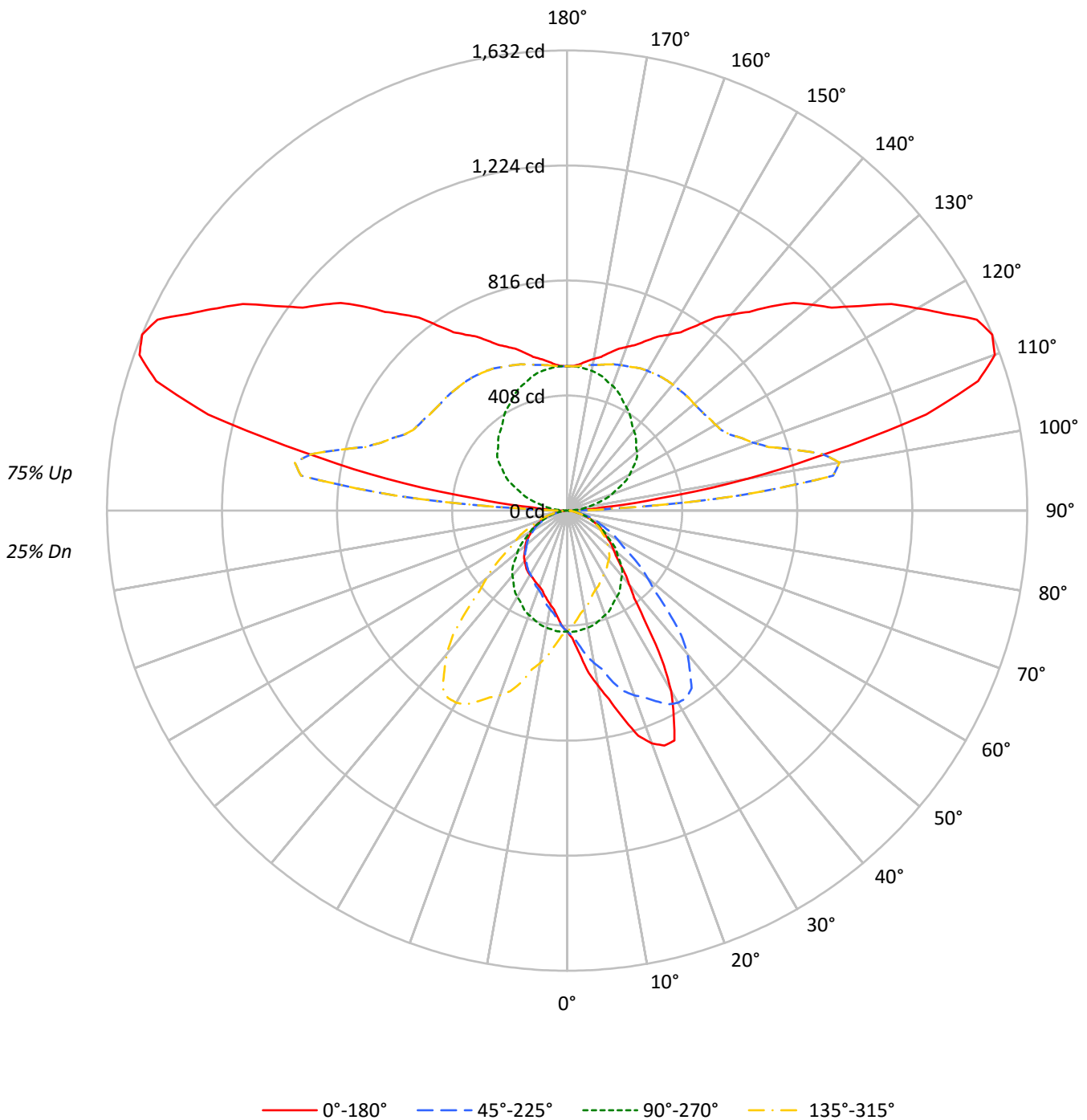
Input Watts (W): 42.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	4614	4614	4614	4614
5°	5503	4635	4107	4635
10°	6889	4612	3711	4612
15°	8449	4574	3455	4574
20°	10065	4517	3289	4517
25°	10688	4445	3252	4445
30°	9161	4395	3269	4395
35°	6370	4322	3303	4322
40°	4799	4235	3292	4235
45°	3984	4107	3252	4107
50°	3569	3848	3220	3848
55°	3337	3567	3181	3567
60°	3130	3272	3147	3272
65°	2942	2985	3049	2985
70°	2760	2656	2902	2656
75°	2470	2325	2662	2325
80°	2163	1909	2294	1909
85°	1692	1383	1544	1383



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.2	0.8
10°-20°	135.4	2.6
20°-30°	227.3	4.4
30°-40°	257.4	5.0
40°-50°	230.8	4.5
50°-60°	186.3	3.6
60°-70°	129.8	2.5
70°-80°	68.2	1.3
80°-90°	20.6	0.4
90°-100°	284.8	5.5
100°-110°	806.5	15.7
110°-120°	793.4	15.4
120°-130°	632.8	12.3
130°-140°	498.9	9.7
140°-150°	372.4	7.2
150°-160°	259.6	5.0
160°-170°	152.5	3.0
170°-180°	49.6	1.0
0°-30°	405.0	7.9
0°-40°	662.4	12.9
0°-60°	1079.4	21.0
0°-90°	1298.1	25.2
90°-120°	1884.7	36.6
90°-150°	3388.9	65.8
90°-180°	3851.0	74.8
0°-180°	5148.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	429	429	429	429	429	
5°	509	429	380	429	509	53
15°	758	410	310	410	758	219
25°	900	374	274	374	900	395
35°	485	329	251	329	485	315
45°	262	270	214	270	262	207
55°	178	190	170	190	178	160
65°	116	117	120	117	116	115
75°	59	56	64	56	59	64
85°	14	11	12	11	14	17
90°	30	2	30	2	30	17
95°	120	35	120	35	120	217
105°	1318	120	1318	120	1318	1300
115°	1603	212	1603	212	1603	1557
125°	1264	295	1264	295	1264	1145
135°	1025	346	1025	346	1025	795
145°	801	395	801	395	801	509
155°	664	449	664	449	664	310
165°	579	490	579	490	579	166
175°	521	511	521	511	521	51
180°	512	512	512	512	512	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	455.0	454.7	453.9	454.5	453.2	451.4	451.2	449.5	444.7	444.4	443.1
5°	509.3	507.7	507.5	507.3	504.4	500.4	492.9	492.3	482.3	477.4	471.4
7.5°	579.8	580.6	577.6	575.0	566.1	560.2	552.1	541.9	529.7	517.2	509.0
10°	630.3	637.1	628.7	622.8	617.4	607.3	595.4	580.6	565.9	548.7	535.6
12.5°	684.5	687.8	686.1	680.6	672.3	656.7	635.8	619.5	605.9	577.2	565.6
15°	758.2	770.9	762.8	744.1	744.5	729.8	702.4	672.3	656.2	631.1	596.8
17.5°	836.9	838.4	835.0	819.4	809.0	788.7	763.4	734.6	702.1	671.7	635.3
20°	878.7	877.4	870.2	862.1	844.3	828.5	800.8	768.7	727.1	697.1	657.5
22.5°	902.0	899.9	896.4	889.7	874.9	857.9	833.0	797.9	758.3	717.1	671.3
25°	899.9	902.6	903.0	901.2	896.0	885.8	866.3	838.2	798.8	745.7	698.0
27.5°	818.5	822.3	833.4	843.3	854.3	865.5	864.0	850.1	820.8	775.1	716.7
30°	737.1	728.7	749.3	775.3	792.9	824.1	841.5	842.6	826.2	786.9	730.0
32.5°	624.0	633.2	642.3	674.2	712.8	747.8	782.6	810.5	813.7	787.6	737.8
35°	484.8	496.3	512.9	529.5	571.1	606.8	667.9	721.0	763.4	769.0	738.5
37.5°	390.7	396.4	406.9	423.6	450.7	493.1	540.3	607.5	669.0	714.6	716.6
40°	341.5	343.2	355.0	367.7	389.7	424.6	467.2	526.6	600.1	664.0	690.5
42.5°	304.6	308.3	313.3	325.5	343.0	369.3	408.8	458.0	525.4	598.8	650.8
45°	261.7	265.9	269.0	277.1	289.6	307.3	334.8	379.8	431.1	506.8	576.8
47.5°	233.4	233.7	236.0	242.2	250.7	263.9	283.5	312.3	359.4	420.9	492.8
50°	213.1	216.4	217.3	222.0	228.7	238.4	254.7	279.2	317.8	371.8	437.9
52.5°	198.9	199.8	202.2	205.6	211.4	219.0	233.1	252.3	282.6	328.7	389.4
55°	177.8	177.8	180.1	182.8	186.1	193.0	202.3	216.4	239.5	275.3	325.6
57.5°	158.4	159.4	161.0	161.8	164.7	169.2	177.0	187.8	204.9	232.5	272.4
60°	145.4	147.3	147.0	148.7	151.2	154.8	161.4	170.1	185.5	207.5	241.2
62.5°	134.1	134.0	133.9	136.0	138.4	141.8	146.2	153.6	166.7	186.3	214.9
65°	115.5	115.1	116.5	117.8	118.6	121.1	124.4	131.1	139.8	154.4	176.6
67.5°	99.0	97.7	98.5	99.0	100.4	102.4	105.5	109.6	116.5	128.1	144.9
70°	87.7	86.6	86.4	86.9	88.1	89.5	91.8	95.8	102.2	111.6	123.8
72.5°	76.1	75.3	75.3	76.2	76.8	77.8	79.4	82.9	88.1	95.1	106.6
75°	59.4	59.4	59.4	59.7	60.3	61.1	62.3	64.2	68.1	73.1	80.8
77.5°	44.5	44.5	44.2	44.2	45.1	45.5	45.7	47.5	49.8	53.1	58.7
80°	34.9	33.9	34.2	34.9	35.3	35.5	36.1	36.6	38.4	40.3	44.2
82.5°	25.9	25.1	25.1	26.1	26.2	26.4	27.0	27.6	28.3	30.0	32.1
85°	13.7	13.7	13.9	13.9	14.1	13.9	14.5	14.7	14.7	15.8	17.0
87.5°	11.0	10.9	10.8	10.8	10.8	10.6	10.5	10.5	10.4	10.8	10.3
90°	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9	24.9	25.9	22.8
92.5°	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2	120.2	159.3	175.3
95°	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0	498.3	614.4	547.1
97.5°	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7	1018.6	952.1	697.1
100°	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5	1185.3	981.1	663.1
102.5°	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5	1193.5	927.3	613.3
105°	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8	1130.3	832.9	552.2
107.5°	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2	1019.7	749.7	513.3
110°	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3	950.0	702.4	498.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2	889.6	670.9	490.1
115°	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1	816.4	637.1	487.0
117.5°	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1	772.2	617.2	488.8
120°	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1	749.0	608.1	492.1
122.5°	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4	730.0	602.4	497.9
125°	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7	705.5	594.7	506.6
127.5°	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0	684.0	590.9	516.6
130°	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6	672.3	588.4	523.2
132.5°	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9	661.6	587.6	528.2
135°	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9	647.6	586.4	535.7
137.5°	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4	635.3	584.1	540.6
140°	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5	627.9	583.3	543.9
142.5°	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5	621.2	581.7	546.4
145°	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4	612.3	579.2	548.0
147.5°	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6	603.6	575.2	548.0
150°	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6	597.8	571.9	548.0
152.5°	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5	591.2	567.8	545.5
155°	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8	581.2	560.5	542.9
157.5°	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3	570.0	554.1	539.4
160°	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0	562.6	549.1	537.7
162.5°	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1	555.1	544.1	534.4
165°	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2	544.9	536.6	529.4
167.5°	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1	535.2	529.2	524.4
170°	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6	529.4	524.2	521.1
172.5°	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0	523.6	520.0	518.6
175°	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1	517.0	514.9	514.9
177.5°	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4	512.6	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	442.0	440.8	439.4	437.1	435.1	432.3	431.4	430.4	427.4	424.8	422.8
5°	469.0	464.0	456.8	450.1	444.8	437.5	433.4	429.0	422.8	417.1	412.6
7.5°	497.3	487.5	476.2	464.0	452.6	441.7	432.8	424.9	416.2	408.0	401.4
10°	519.8	505.6	489.8	472.8	458.3	444.2	432.3	422.0	410.7	400.9	392.8
12.5°	545.4	524.4	502.7	482.0	464.8	445.1	430.8	417.6	404.8	393.2	384.1
15°	575.6	549.0	523.3	494.8	468.7	444.2	427.1	410.5	395.7	383.7	372.0
17.5°	603.2	573.1	539.1	504.5	473.0	443.9	420.1	401.3	382.8	368.1	356.5
20°	618.8	584.6	546.2	510.2	475.3	442.9	416.7	394.3	374.3	358.7	345.7
22.5°	632.3	592.2	552.4	514.0	475.1	440.2	410.5	387.4	365.9	350.6	336.7
25°	646.3	598.2	558.4	513.4	469.9	433.7	400.6	374.3	352.8	334.8	320.6
27.5°	658.3	597.9	550.5	502.0	461.6	425.4	389.9	361.9	338.9	319.5	305.0
30°	666.2	598.7	542.4	494.5	453.7	416.3	381.8	353.6	329.5	309.8	296.0
32.5°	671.2	598.2	534.9	483.8	441.0	408.0	373.0	343.8	319.0	299.6	286.4
35°	674.1	594.5	522.0	461.8	420.7	388.4	359.2	328.9	302.9	284.8	269.8
37.5°	668.2	586.8	507.1	440.6	395.6	363.9	339.2	313.4	288.6	268.7	255.7
40°	659.2	581.8	495.4	425.6	378.3	347.8	326.8	301.4	276.9	258.0	245.9
42.5°	641.7	571.8	482.7	409.0	360.3	329.8	310.5	289.3	266.1	248.3	236.3
45°	599.1	549.7	463.4	384.1	333.9	302.3	285.3	269.8	248.9	231.7	221.2
47.5°	540.0	516.5	435.7	357.8	306.1	275.8	258.1	245.8	230.4	216.4	206.5
50°	499.0	489.2	417.0	339.8	287.8	258.0	240.9	229.8	218.7	204.8	195.7
52.5°	451.7	457.6	395.0	321.3	268.9	239.7	223.7	214.8	204.8	193.3	185.4
55°	385.0	406.7	357.1	290.0	240.9	213.1	198.0	190.1	184.2	175.8	168.9
57.5°	322.5	350.3	316.1	257.8	213.5	189.5	175.0	166.4	162.6	158.2	152.8
60°	285.4	312.8	286.9	236.2	195.1	172.2	159.3	152.0	148.3	145.2	140.6
62.5°	252.4	280.1	258.3	214.3	176.9	155.8	144.5	137.4	134.6	133.0	129.0
65°	206.9	230.8	216.2	180.1	151.1	132.3	122.2	117.2	114.5	113.9	111.4
67.5°	168.4	186.5	176.0	149.4	126.5	110.4	101.7	97.5	95.4	95.1	93.3
70°	143.1	160.2	152.0	128.0	108.3	95.6	88.1	84.4	83.1	82.9	81.9
72.5°	123.5	135.4	128.9	108.9	93.6	82.1	76.6	72.7	71.3	71.6	70.9
75°	91.4	100.3	96.6	82.7	70.4	63.0	58.4	55.9	54.7	55.3	54.4
77.5°	65.8	71.4	68.0	58.4	50.8	45.5	42.1	40.6	39.4	39.4	39.1
80°	49.7	53.0	51.1	45.3	39.1	34.5	31.7	30.8	30.1	29.9	29.7
82.5°	35.4	38.2	35.9	32.0	27.7	25.0	23.5	22.1	21.7	21.8	21.6
85°	17.8	18.9	18.1	15.6	13.9	12.7	11.9	11.2	10.8	11.0	10.6
87.5°	10.1	9.6	8.5	7.4	6.7	5.5	5.2	4.4	4.5	4.9	5.4
90°	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1	4.1	6.2	9.4
92.5°	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8	19.1	27.7	35.8
95°	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2	38.3	49.8	67.3
97.5°	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1	61.1	70.0	85.3
100°	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7	77.7	85.0	99.4
102.5°	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1	95.9	102.4	116.0
105°	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2	123.3	129.5	142.0
107.5°	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9	151.1	157.0	169.2
110°	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8	170.9	176.1	187.5





TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1	189.2	194.4	205.7
115°	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4	216.5	222.7	233.1
117.5°	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7	243.4	248.6	258.2
120°	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9	260.0	265.2	275.6
122.5°	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7	275.8	281.0	292.1
125°	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2	297.4	303.5	315.0
127.5°	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5	315.6	323.2	334.8
130°	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2	326.4	335.6	348.1
132.5°	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5	335.5	345.6	360.5
135°	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1	350.2	361.6	377.1
137.5°	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7	364.1	375.2	391.8
140°	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8	374.0	384.3	400.9
142.5°	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8	383.2	394.3	409.2
145°	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8	397.8	407.2	422.7
147.5°	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9	412.8	421.9	435.3
150°	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7	422.7	431.0	444.4
152.5°	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5	432.7	441.0	452.7
155°	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6	448.6	454.9	465.2
157.5°	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5	462.3	467.3	476.4
160°	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4	471.4	475.5	483.8
162.5°	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8	478.8	482.1	488.8
165°	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1	489.0	491.1	496.2
167.5°	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6	497.3	498.3	502.3
170°	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5	501.4	502.5	505.6
172.5°	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8	505.6	505.8	508.1
175°	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8	509.7	508.7	510.8
177.5°	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6	511.8	511.0	511.8
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	421.6	420.4	418.8	416.3	414.3	411.2	411.2	411.6	411.6	411.5	411.2
5°	408.8	405.7	402.0	397.6	393.1	388.4	387.6	385.9	384.8	383.9	382.9
7.5°	395.3	389.8	384.3	378.3	372.6	368.1	364.9	362.2	360.5	358.6	357.3
10°	386.2	379.3	372.9	366.5	359.4	353.7	350.3	347.8	345.9	344.2	343.4
12.5°	375.4	367.6	360.4	354.3	346.6	340.8	337.4	336.3	334.1	330.6	328.8
15°	359.6	352.3	343.8	334.5	330.7	323.7	319.7	317.8	316.6	313.9	313.1
17.5°	346.1	336.6	327.0	320.0	313.1	307.4	305.1	302.8	301.2	299.0	298.3
20°	335.3	326.8	318.1	310.6	303.3	297.0	295.2	293.6	291.9	290.9	290.0
22.5°	324.3	315.8	308.5	301.6	293.8	289.7	287.8	285.9	284.7	284.0	283.2
25°	308.9	301.4	293.3	287.1	280.9	278.1	276.9	275.9	275.0	274.0	273.8
27.5°	295.2	287.0	280.4	274.6	270.1	267.9	266.6	266.2	266.4	266.7	267.0
30°	284.8	277.3	272.0	267.0	262.8	260.7	260.5	260.5	261.4	261.5	262.0
32.5°	275.4	269.2	263.8	259.0	255.8	254.4	255.2	255.2	255.8	256.4	257.2
35°	261.5	256.1	252.0	247.8	245.1	245.8	246.2	246.6	247.6	248.9	249.7
37.5°	248.3	243.7	239.3	236.1	234.9	235.9	237.0	237.8	239.1	240.0	240.9
40°	238.9	235.3	231.2	228.3	228.7	229.3	230.2	231.2	232.3	232.9	233.7
42.5°	230.1	226.4	223.2	220.8	221.4	222.2	222.7	223.2	224.4	225.6	226.0
45°	216.7	213.7	210.9	209.4	209.8	210.3	210.6	211.2	212.3	213.1	213.4
47.5°	201.6	199.6	197.6	196.2	196.9	196.7	197.2	198.6	198.9	199.4	200.5
50°	192.0	190.1	187.8	187.3	187.3	187.3	187.6	189.2	189.2	190.1	190.9
52.5°	181.3	180.1	178.7	177.9	177.5	177.5	178.4	179.2	179.6	180.7	181.6
55°	165.6	164.3	163.1	162.5	162.0	162.5	164.1	164.5	165.6	166.2	166.8
57.5°	149.2	148.2	147.2	146.9	146.8	147.3	148.2	149.5	149.7	151.7	152.6
60°	138.4	136.9	136.1	136.1	135.6	137.5	137.1	139.2	139.6	140.9	142.3
62.5°	127.2	125.3	124.9	124.9	125.6	126.1	126.6	127.5	128.7	130.2	131.3
65°	109.2	108.3	109.7	109.5	109.1	110.3	110.3	111.4	112.6	114.0	116.4
67.5°	92.3	91.8	91.8	91.8	92.5	93.2	93.8	94.7	96.2	97.7	99.2
70°	80.8	81.4	80.4	81.2	81.9	82.0	82.5	83.7	85.3	86.4	88.1
72.5°	69.6	69.6	69.7	70.1	70.7	71.1	71.5	72.9	74.7	75.6	77.0
75°	53.6	53.4	54.0	54.0	55.0	55.5	55.9	56.5	58.1	59.4	60.5
77.5°	39.1	39.4	39.2	39.9	39.7	39.8	41.0	41.6	41.8	44.3	44.9
80°	29.5	29.9	30.1	30.3	30.5	30.1	31.6	32.2	32.2	33.6	34.7
82.5°	21.2	21.4	21.9	22.2	22.2	22.6	22.7	23.2	23.7	24.3	25.7
85°	10.6	11.2	11.4	11.2	11.4	11.0	11.6	11.9	12.0	12.0	12.0
87.5°	5.6	6.2	6.6	7.4	7.8	8.6	8.5	8.4	8.6	9.3	9.0
90°	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9	26.9	28.0	30.1
92.5°	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2	69.2	61.1	55.7
95°	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0	252.8	197.9	160.6
97.5°	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7	744.7	611.1	487.1
100°	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5	1137.6	1016.4	869.2
102.5°	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5	1315.7	1245.1	1151.8
105°	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8	1450.5	1470.2	1443.2
107.5°	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2	1433.4	1524.2	1561.1
110°	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3	1378.0	1508.5	1581.0



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2	1305.0	1451.3	1544.5
115°	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1	1188.3	1340.6	1453.6
117.5°	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1	1089.7	1226.5	1341.0
120°	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1	1035.0	1159.3	1264.0
122.5°	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4	991.0	1106.3	1203.5
125°	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7	936.6	1036.0	1118.9
127.5°	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0	888.7	978.4	1053.8
130°	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6	858.9	942.8	1013.3
132.5°	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9	830.7	908.8	976.0
135°	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9	790.5	857.8	916.9
137.5°	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4	751.7	809.8	860.9
140°	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5	729.3	779.1	823.7
142.5°	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5	707.8	750.9	789.7
145°	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4	679.7	712.8	742.8
147.5°	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6	658.7	685.5	706.8
150°	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6	645.4	667.2	686.9
152.5°	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5	633.0	652.3	668.7
155°	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8	615.4	631.0	643.4
157.5°	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3	598.2	610.2	619.9
160°	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0	587.5	597.8	605.0
162.5°	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1	575.9	585.3	591.7
165°	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2	559.5	566.7	571.9
167.5°	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1	546.8	551.0	554.7
170°	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6	537.7	541.8	543.9
172.5°	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0	530.2	533.6	534.8
175°	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1	520.0	522.2	522.2
177.5°	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4	514.2	515.1	515.1
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	410.0	409.8	411.0	410.2	411.0	409.8	410.0	411.2	411.5	411.6	411.6
5°	381.7	382.3	380.1	380.1	380.1	382.3	381.7	382.9	383.9	384.8	385.9
7.5°	356.3	355.4	355.5	354.4	355.5	355.4	356.3	357.3	358.6	360.5	362.2
10°	340.9	339.7	339.2	339.5	339.2	339.7	340.9	343.4	344.2	345.9	347.8
12.5°	328.1	327.9	325.1	325.1	325.1	327.9	328.1	328.8	330.6	334.1	336.3
15°	313.1	309.2	308.7	310.0	308.7	309.2	313.1	313.1	313.9	316.6	317.8
17.5°	298.0	295.9	296.0	295.4	296.0	295.9	298.0	298.3	299.0	301.2	302.8
20°	290.0	288.7	288.6	287.1	288.6	288.7	290.0	290.0	290.9	291.9	293.6
22.5°	282.7	282.3	282.4	280.8	282.4	282.3	282.7	283.2	284.0	284.7	285.9
25°	273.6	274.6	273.8	273.8	273.8	274.6	273.6	273.8	274.0	275.0	275.9
27.5°	267.4	267.4	267.0	267.0	267.0	267.4	267.4	267.0	266.7	266.4	266.2
30°	262.8	262.6	263.0	263.0	263.0	262.6	262.8	262.0	261.5	261.4	260.5
32.5°	258.2	258.4	258.5	258.7	258.5	258.4	258.2	257.2	256.4	255.8	255.2
35°	250.9	251.2	251.8	251.4	251.8	251.2	250.9	249.7	248.9	247.6	246.6
37.5°	241.2	242.2	242.0	242.3	242.0	242.2	241.2	240.9	240.0	239.1	237.8
40°	233.9	234.5	234.3	234.3	234.3	234.5	233.9	233.7	232.9	232.3	231.2
42.5°	226.4	226.9	226.3	226.0	226.3	226.9	226.4	226.0	225.6	224.4	223.2
45°	214.2	213.7	214.4	213.6	214.4	213.7	214.2	213.4	213.1	212.3	211.2
47.5°	200.5	200.9	201.1	201.7	201.1	200.9	200.5	200.5	199.4	198.9	198.6
50°	191.4	192.6	192.6	192.3	192.6	192.6	191.4	190.9	190.1	189.2	189.2
52.5°	182.4	182.9	183.8	183.7	183.8	182.9	182.4	181.6	180.7	179.6	179.2
55°	168.4	168.9	169.3	169.5	169.3	168.9	168.4	166.8	166.2	165.6	164.5
57.5°	154.1	153.9	154.9	155.2	154.9	153.9	154.1	152.6	151.7	149.7	149.5
60°	143.9	143.9	145.6	146.2	145.6	143.9	143.9	142.3	140.9	139.6	139.2
62.5°	133.1	133.8	135.5	134.6	135.5	133.8	133.1	131.3	130.2	128.7	127.5
65°	117.3	119.0	118.9	119.7	118.9	119.0	117.3	116.4	114.0	112.6	111.4
67.5°	100.9	101.9	103.4	103.5	103.4	101.9	100.9	99.2	97.7	96.2	94.7
70°	89.7	90.8	91.6	92.2	91.6	90.8	89.7	88.1	86.4	85.3	83.7
72.5°	78.9	79.5	81.5	80.6	81.5	79.5	78.9	77.0	75.6	74.7	72.9
75°	61.9	63.4	64.6	64.0	64.6	63.4	61.9	60.5	59.4	58.1	56.5
77.5°	45.7	47.3	47.8	47.3	47.8	47.3	45.7	44.9	44.3	41.8	41.6
80°	36.1	35.9	37.2	37.0	37.2	35.9	36.1	34.7	33.6	32.2	32.2
82.5°	26.5	26.3	26.8	27.0	26.8	26.3	26.5	25.7	24.3	23.7	23.2
85°	12.8	13.5	12.7	12.5	12.7	13.5	12.8	12.0	12.0	12.0	11.9
87.5°	8.8	9.0	9.0	8.6	9.0	9.0	8.8	9.0	9.3	8.6	8.4
90°	29.0	30.1	31.1	30.1	31.1	30.1	29.0	30.1	28.0	26.9	25.9
92.5°	53.9	50.7	51.8	49.9	51.8	50.7	53.9	55.7	61.1	69.2	87.2
95°	140.9	131.6	124.3	120.2	124.3	131.6	140.9	160.6	197.9	252.8	373.0
97.5°	410.7	364.1	336.1	327.2	336.1	364.1	410.7	487.1	611.1	744.7	929.7
100°	764.6	688.9	648.5	649.6	648.5	688.9	764.6	869.2	1016.4	1137.6	1221.5
102.5°	1070.4	1010.6	976.8	953.0	976.8	1010.6	1070.4	1151.8	1245.1	1315.7	1318.5
105°	1395.5	1356.2	1323.0	1317.9	1323.0	1356.2	1395.5	1443.2	1470.2	1450.5	1346.8
107.5°	1561.9	1548.6	1537.5	1527.9	1537.5	1548.6	1561.9	1561.1	1524.2	1433.4	1265.2
110°	1610.0	1618.3	1616.2	1614.2	1616.2	1618.3	1610.0	1581.0	1508.5	1378.0	1187.3



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1597.6	1623.3	1631.1	1631.6	1631.1	1623.3	1597.6	1544.5	1451.3	1305.0	1110.2
115°	1531.2	1576.8	1597.6	1602.8	1597.6	1576.8	1531.2	1453.6	1340.6	1188.3	1008.1
117.5°	1422.1	1474.3	1504.1	1511.2	1504.1	1474.3	1422.1	1341.0	1226.5	1089.7	934.1
120°	1345.8	1403.8	1428.7	1434.9	1428.7	1403.8	1345.8	1264.0	1159.3	1035.0	895.1
122.5°	1276.2	1328.4	1355.8	1363.6	1355.8	1328.4	1276.2	1203.5	1106.3	991.0	864.4
125°	1185.3	1230.8	1256.7	1264.0	1256.7	1230.8	1185.3	1118.9	1036.0	936.6	823.7
127.5°	1112.9	1151.8	1175.3	1181.9	1175.3	1151.8	1112.9	1053.8	978.4	888.7	788.0
130°	1068.2	1105.5	1127.2	1135.5	1127.2	1105.5	1068.2	1013.3	942.8	858.9	765.6
132.5°	1027.5	1064.8	1084.1	1089.9	1084.1	1064.8	1027.5	976.0	908.8	830.7	744.9
135°	967.7	998.7	1017.4	1024.7	1017.4	998.7	967.7	916.9	857.8	790.5	716.9
137.5°	903.7	935.1	950.8	955.6	950.8	935.1	903.7	860.9	809.8	751.7	691.4
140°	863.0	892.1	908.6	907.6	908.6	892.1	863.0	823.7	779.1	729.3	676.5
142.5°	823.2	848.9	863.8	862.8	863.8	848.9	823.2	789.7	750.9	707.8	662.5
145°	768.7	790.5	798.8	800.8	798.8	790.5	768.7	742.8	712.8	679.7	645.4
147.5°	726.5	741.2	749.0	749.8	749.0	741.2	726.5	706.8	685.5	658.7	631.6
150°	702.4	713.8	720.1	720.1	720.1	713.8	702.4	686.9	667.2	645.4	621.6
152.5°	680.9	691.4	695.2	695.2	695.2	691.4	680.9	668.7	652.3	633.0	612.5
155°	652.7	661.0	663.1	664.1	663.1	661.0	652.7	643.4	631.0	615.4	598.8
157.5°	628.0	634.3	635.9	635.7	635.9	634.3	628.0	619.9	610.2	598.2	584.3
160°	612.3	618.5	618.5	617.5	618.5	618.5	612.3	605.0	597.8	587.5	576.0
162.5°	596.6	601.9	601.9	600.9	601.9	601.9	596.6	591.7	585.3	575.9	566.1
165°	576.0	580.1	579.2	579.2	579.2	580.1	576.0	571.9	566.7	559.5	553.2
167.5°	556.5	559.5	558.4	558.4	558.4	559.5	556.5	554.7	551.0	546.8	542.1
170°	544.9	547.1	546.0	546.0	546.0	547.1	544.9	543.9	541.8	537.7	534.6
172.5°	535.0	537.1	535.2	534.4	535.2	537.1	535.0	534.8	533.6	530.2	528.0
175°	522.2	523.2	522.2	521.1	522.2	523.2	522.2	522.2	522.2	520.0	519.1
177.5°	514.2	515.1	513.4	513.4	513.4	515.1	514.2	515.1	515.1	514.2	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	411.2	411.2	414.3	416.3	418.8	420.4	421.6	422.8	424.8	427.4	430.4
5°	387.6	388.4	393.1	397.6	402.0	405.7	408.8	412.6	417.1	422.8	429.0
7.5°	364.9	368.1	372.6	378.3	384.3	389.8	395.3	401.4	408.0	416.2	424.9
10°	350.3	353.7	359.4	366.5	372.9	379.3	386.2	392.8	400.9	410.7	422.0
12.5°	337.4	340.8	346.6	354.3	360.4	367.6	375.4	384.1	393.2	404.8	417.6
15°	319.7	323.7	330.7	334.5	343.8	352.3	359.6	372.0	383.7	395.7	410.5
17.5°	305.1	307.4	313.1	320.0	327.0	336.6	346.1	356.5	368.1	382.8	401.3
20°	295.2	297.0	303.3	310.6	318.1	326.8	335.3	345.7	358.7	374.3	394.3
22.5°	287.8	289.7	293.8	301.6	308.5	315.8	324.3	336.7	350.6	365.9	387.4
25°	276.9	278.1	280.9	287.1	293.3	301.4	308.9	320.6	334.8	352.8	374.3
27.5°	266.6	267.9	270.1	274.6	280.4	287.0	295.2	305.0	319.5	338.9	361.9
30°	260.5	260.7	262.8	267.0	272.0	277.3	284.8	296.0	309.8	329.5	353.6
32.5°	255.2	254.4	255.8	259.0	263.8	269.2	275.4	286.4	299.6	319.0	343.8
35°	246.2	245.8	245.1	247.8	252.0	256.1	261.5	269.8	284.8	302.9	328.9
37.5°	237.0	235.9	234.9	236.1	239.3	243.7	248.3	255.7	268.7	288.6	313.4
40°	230.2	229.3	228.7	228.3	231.2	235.3	238.9	245.9	258.0	276.9	301.4
42.5°	222.7	222.2	221.4	220.8	223.2	226.4	230.1	236.3	248.3	266.1	289.3
45°	210.6	210.3	209.8	209.4	210.9	213.7	216.7	221.2	231.7	248.9	269.8
47.5°	197.2	196.7	196.9	196.2	197.6	199.6	201.6	206.5	216.4	230.4	245.8
50°	187.6	187.3	187.3	187.3	187.8	190.1	192.0	195.7	204.8	218.7	229.8
52.5°	178.4	177.5	177.5	177.9	178.7	180.1	181.3	185.4	193.3	204.8	214.8
55°	164.1	162.5	162.0	162.5	163.1	164.3	165.6	168.9	175.8	184.2	190.1
57.5°	148.2	147.3	146.8	146.9	147.2	148.2	149.2	152.8	158.2	162.6	166.4
60°	137.1	137.5	135.6	136.1	136.1	136.9	138.4	140.6	145.2	148.3	152.0
62.5°	126.6	126.1	125.6	124.9	124.9	125.3	127.2	129.0	133.0	134.6	137.4
65°	110.3	110.3	109.1	109.5	109.7	108.3	109.2	111.4	113.9	114.5	117.2
67.5°	93.8	93.2	92.5	91.8	91.8	91.8	92.3	93.3	95.1	95.4	97.5
70°	82.5	82.0	81.9	81.2	80.4	81.4	80.8	81.9	82.9	83.1	84.4
72.5°	71.5	71.1	70.7	70.1	69.7	69.6	69.6	70.9	71.6	71.3	72.7
75°	55.9	55.5	55.0	54.0	54.0	53.4	53.6	54.4	55.3	54.7	55.9
77.5°	41.0	39.8	39.7	39.9	39.2	39.4	39.1	39.1	39.4	39.4	40.6
80°	31.6	30.1	30.5	30.3	30.1	29.9	29.5	29.7	29.9	30.1	30.8
82.5°	22.7	22.6	22.2	22.2	21.9	21.4	21.2	21.6	21.8	21.7	22.1
85°	11.6	11.0	11.4	11.2	11.4	11.2	10.6	10.6	11.0	10.8	11.2
87.5°	8.5	8.6	7.8	7.4	6.6	6.2	5.6	5.4	4.9	4.5	4.4
90°	24.9	25.9	22.8	19.7	16.6	13.5	11.4	9.4	6.2	4.1	2.1
92.5°	120.2	159.3	175.3	131.6	87.0	59.9	44.6	35.8	27.7	19.1	12.8
95°	498.3	614.4	547.1	377.1	222.7	134.6	94.3	67.3	49.8	38.3	35.2
97.5°	1018.6	952.1	697.1	413.8	239.8	155.6	111.9	85.3	70.0	61.1	60.1
100°	1185.3	981.1	663.1	390.6	237.3	164.7	124.3	99.4	85.0	77.7	76.7
102.5°	1193.5	927.3	613.3	370.7	240.6	175.5	138.4	116.0	102.4	95.9	94.1
105°	1130.3	832.9	552.2	356.4	249.7	193.8	161.6	142.0	129.5	123.3	120.2
107.5°	1019.7	749.7	513.3	355.3	266.7	217.6	187.7	169.2	157.0	151.1	147.9
110°	950.0	702.4	498.3	359.5	280.8	234.2	205.1	187.5	176.1	170.9	167.8



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	889.6	670.9	490.1	367.8	294.9	251.6	223.4	205.7	194.4	189.2	186.1
115°	816.4	637.1	487.0	381.3	318.1	278.7	250.7	233.1	222.7	216.5	212.4
117.5°	772.2	617.2	488.8	399.0	342.7	303.8	277.9	258.2	248.6	243.4	238.7
120°	749.0	608.1	492.1	412.3	358.5	321.2	295.2	275.6	265.2	260.0	256.9
122.5°	730.0	602.4	497.9	424.8	375.1	338.6	311.0	292.1	281.0	275.8	272.7
125°	705.5	594.7	506.6	444.4	398.9	362.6	334.7	315.0	303.5	297.4	295.2
127.5°	684.0	590.9	516.6	460.7	419.5	384.6	356.6	334.8	323.2	315.6	312.5
130°	672.3	588.4	523.2	471.4	432.0	397.8	369.9	348.1	335.6	326.4	323.2
132.5°	661.6	587.6	528.2	481.3	442.8	409.5	382.3	360.5	345.6	335.5	331.5
135°	647.6	586.4	535.7	494.2	459.0	426.9	398.9	377.1	361.6	350.2	346.1
137.5°	635.3	584.1	540.6	503.7	470.1	439.3	413.4	391.8	375.2	364.1	359.7
140°	627.9	583.3	543.9	508.7	477.6	447.5	421.7	400.9	384.3	374.0	368.8
142.5°	621.2	581.7	546.4	513.6	483.4	454.2	430.0	409.2	394.3	383.2	378.8
145°	612.3	579.2	548.0	519.1	491.1	464.1	440.3	422.7	407.2	397.8	394.8
147.5°	603.6	575.2	548.0	522.4	497.3	472.6	452.4	435.3	421.9	412.8	410.9
150°	597.8	571.9	548.0	523.2	501.4	477.6	459.0	444.4	431.0	422.7	421.7
152.5°	591.2	567.8	545.5	524.9	503.9	483.4	465.6	452.7	441.0	432.7	432.5
155°	581.2	560.5	542.9	525.3	508.7	491.1	476.5	465.2	454.9	448.6	448.6
157.5°	570.0	554.1	539.4	526.3	511.4	497.3	486.1	476.4	467.3	462.3	461.5
160°	562.6	549.1	537.7	526.3	513.9	501.4	491.1	483.8	475.5	471.4	471.4
162.5°	555.1	544.1	534.4	525.5	514.7	503.9	495.3	488.8	482.1	478.8	478.8
165°	544.9	536.6	529.4	523.2	515.9	507.7	500.4	496.2	491.1	489.0	490.1
167.5°	535.2	529.2	524.4	521.6	515.8	509.7	505.2	502.3	498.3	497.3	498.6
170°	529.4	524.2	521.1	519.1	514.9	509.7	507.7	505.6	502.5	501.4	503.5
172.5°	523.6	520.0	518.6	518.3	514.9	510.6	509.3	508.1	505.8	505.6	506.8
175°	517.0	514.9	514.9	515.9	513.9	511.8	510.8	510.8	508.7	509.7	510.8
177.5°	512.6	511.8	512.6	514.2	512.6	511.8	511.8	511.8	511.0	511.8	512.6
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	431.4	432.3	435.1	437.1	439.4	440.8	442.0	443.1	444.4	444.7	449.5
5°	433.4	437.5	444.8	450.1	456.8	464.0	469.0	471.4	477.4	482.3	492.3
7.5°	432.8	441.7	452.6	464.0	476.2	487.5	497.3	509.0	517.2	529.7	541.9
10°	432.3	444.2	458.3	472.8	489.8	505.6	519.8	535.6	548.7	565.9	580.6
12.5°	430.8	445.1	464.8	482.0	502.7	524.4	545.4	565.6	577.2	605.9	619.5
15°	427.1	444.2	468.7	494.8	523.3	549.0	575.6	596.8	631.1	656.2	672.3
17.5°	420.1	443.9	473.0	504.5	539.1	573.1	603.2	635.3	671.7	702.1	734.6
20°	416.7	442.9	475.3	510.2	546.2	584.6	618.8	657.5	697.1	727.1	768.7
22.5°	410.5	440.2	475.1	514.0	552.4	592.2	632.3	671.3	717.1	758.3	797.9
25°	400.6	433.7	469.9	513.4	558.4	598.2	646.3	698.0	745.7	798.8	838.2
27.5°	389.9	425.4	461.6	502.0	550.5	597.9	658.3	716.7	775.1	820.8	850.1
30°	381.8	416.3	453.7	494.5	542.4	598.7	666.2	730.0	786.9	826.2	842.6
32.5°	373.0	408.0	441.0	483.8	534.9	598.2	671.2	737.8	787.6	813.7	810.5
35°	359.2	388.4	420.7	461.8	522.0	594.5	674.1	738.5	769.0	763.4	721.0
37.5°	339.2	363.9	395.6	440.6	507.1	586.8	668.2	716.6	714.6	669.0	607.5
40°	326.8	347.8	378.3	425.6	495.4	581.8	659.2	690.5	664.0	600.1	526.6
42.5°	310.5	329.8	360.3	409.0	482.7	571.8	641.7	650.8	598.8	525.4	458.0
45°	285.3	302.3	333.9	384.1	463.4	549.7	599.1	576.8	506.8	431.1	379.8
47.5°	258.1	275.8	306.1	357.8	435.7	516.5	540.0	492.8	420.9	359.4	312.3
50°	240.9	258.0	287.8	339.8	417.0	489.2	499.0	437.9	371.8	317.8	279.2
52.5°	223.7	239.7	268.9	321.3	395.0	457.6	451.7	389.4	328.7	282.6	252.3
55°	198.0	213.1	240.9	290.0	357.1	406.7	385.0	325.6	275.3	239.5	216.4
57.5°	175.0	189.5	213.5	257.8	316.1	350.3	322.5	272.4	232.5	204.9	187.8
60°	159.3	172.2	195.1	236.2	286.9	312.8	285.4	241.2	207.5	185.5	170.1
62.5°	144.5	155.8	176.9	214.3	258.3	280.1	252.4	214.9	186.3	166.7	153.6
65°	122.2	132.3	151.1	180.1	216.2	230.8	206.9	176.6	154.4	139.8	131.1
67.5°	101.7	110.4	126.5	149.4	176.0	186.5	168.4	144.9	128.1	116.5	109.6
70°	88.1	95.6	108.3	128.0	152.0	160.2	143.1	123.8	111.6	102.2	95.8
72.5°	76.6	82.1	93.6	108.9	128.9	135.4	123.5	106.6	95.1	88.1	82.9
75°	58.4	63.0	70.4	82.7	96.6	100.3	91.4	80.8	73.1	68.1	64.2
77.5°	42.1	45.5	50.8	58.4	68.0	71.4	65.8	58.7	53.1	49.8	47.5
80°	31.7	34.5	39.1	45.3	51.1	53.0	49.7	44.2	40.3	38.4	36.6
82.5°	23.5	25.0	27.7	32.0	35.9	38.2	35.4	32.1	30.0	28.3	27.6
85°	11.9	12.7	13.9	15.6	18.1	18.9	17.8	17.0	15.8	14.7	14.7
87.5°	5.2	5.5	6.7	7.4	8.5	9.6	10.1	10.3	10.8	10.4	10.5
90°	4.1	6.2	9.4	11.4	13.5	16.6	19.7	22.8	25.9	24.9	25.9
92.5°	19.1	27.7	35.8	44.6	59.9	87.0	131.6	175.3	159.3	120.2	87.2
95°	38.3	49.8	67.3	94.3	134.6	222.7	377.1	547.1	614.4	498.3	373.0
97.5°	61.1	70.0	85.3	111.9	155.6	239.8	413.8	697.1	952.1	1018.6	929.7
100°	77.7	85.0	99.4	124.3	164.7	237.3	390.6	663.1	981.1	1185.3	1221.5
102.5°	95.9	102.4	116.0	138.4	175.5	240.6	370.7	613.3	927.3	1193.5	1318.5
105°	123.3	129.5	142.0	161.6	193.8	249.7	356.4	552.2	832.9	1130.3	1346.8
107.5°	151.1	157.0	169.2	187.7	217.6	266.7	355.3	513.3	749.7	1019.7	1265.2
110°	170.9	176.1	187.5	205.1	234.2	280.8	359.5	498.3	702.4	950.0	1187.3





TEST NUMBER: P331903-940

CATALOG NUMBER: S123DIP-S340D1195U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	189.2	194.4	205.7	223.4	251.6	294.9	367.8	490.1	670.9	889.6	1110.2
115°	216.5	222.7	233.1	250.7	278.7	318.1	381.3	487.0	637.1	816.4	1008.1
117.5°	243.4	248.6	258.2	277.9	303.8	342.7	399.0	488.8	617.2	772.2	934.1
120°	260.0	265.2	275.6	295.2	321.2	358.5	412.3	492.1	608.1	749.0	895.1
122.5°	275.8	281.0	292.1	311.0	338.6	375.1	424.8	497.9	602.4	730.0	864.4
125°	297.4	303.5	315.0	334.7	362.6	398.9	444.4	506.6	594.7	705.5	823.7
127.5°	315.6	323.2	334.8	356.6	384.6	419.5	460.7	516.6	590.9	684.0	788.0
130°	326.4	335.6	348.1	369.9	397.8	432.0	471.4	523.2	588.4	672.3	765.6
132.5°	335.5	345.6	360.5	382.3	409.5	442.8	481.3	528.2	587.6	661.6	744.9
135°	350.2	361.6	377.1	398.9	426.9	459.0	494.2	535.7	586.4	647.6	716.9
137.5°	364.1	375.2	391.8	413.4	439.3	470.1	503.7	540.6	584.1	635.3	691.4
140°	374.0	384.3	400.9	421.7	447.5	477.6	508.7	543.9	583.3	627.9	676.5
142.5°	383.2	394.3	409.2	430.0	454.2	483.4	513.6	546.4	581.7	621.2	662.5
145°	397.8	407.2	422.7	440.3	464.1	491.1	519.1	548.0	579.2	612.3	645.4
147.5°	412.8	421.9	435.3	452.4	472.6	497.3	522.4	548.0	575.2	603.6	631.6
150°	422.7	431.0	444.4	459.0	477.6	501.4	523.2	548.0	571.9	597.8	621.6
152.5°	432.7	441.0	452.7	465.6	483.4	503.9	524.9	545.5	567.8	591.2	612.5
155°	448.6	454.9	465.2	476.5	491.1	508.7	525.3	542.9	560.5	581.2	598.8
157.5°	462.3	467.3	476.4	486.1	497.3	511.4	526.3	539.4	554.1	570.0	584.3
160°	471.4	475.5	483.8	491.1	501.4	513.9	526.3	537.7	549.1	562.6	576.0
162.5°	478.8	482.1	488.8	495.3	503.9	514.7	525.5	534.4	544.1	555.1	566.1
165°	489.0	491.1	496.2	500.4	507.7	515.9	523.2	529.4	536.6	544.9	553.2
167.5°	497.3	498.3	502.3	505.2	509.7	515.8	521.6	524.4	529.2	535.2	542.1
170°	501.4	502.5	505.6	507.7	509.7	514.9	519.1	521.1	524.2	529.4	534.6
172.5°	505.6	505.8	508.1	509.3	510.6	514.9	518.3	518.6	520.0	523.6	528.0
175°	509.7	508.7	510.8	510.8	511.8	513.9	515.9	514.9	514.9	517.0	519.1
177.5°	511.8	511.0	511.8	511.8	511.8	512.6	514.2	512.6	511.8	512.6	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8	511.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	428.7	428.7	428.7	428.7	428.7	428.7	428.7
2.5°	451.2	451.4	453.2	454.5	453.9	454.7	455.0
5°	492.9	500.4	504.4	507.3	507.5	507.7	509.3
7.5°	552.1	560.2	566.1	575.0	577.6	580.6	579.8
10°	595.4	607.3	617.4	622.8	628.7	637.1	630.3
12.5°	635.8	656.7	672.3	680.6	686.1	687.8	684.5
15°	702.4	729.8	744.5	744.1	762.8	770.9	758.2
17.5°	763.4	788.7	809.0	819.4	835.0	838.4	836.9
20°	800.8	828.5	844.3	862.1	870.2	877.4	878.7
22.5°	833.0	857.9	874.9	889.7	896.4	899.9	902.0
25°	866.3	885.8	896.0	901.2	903.0	902.6	899.9
27.5°	864.0	865.5	854.3	843.3	833.4	822.3	818.5
30°	841.5	824.1	792.9	775.3	749.3	728.7	737.1
32.5°	782.6	747.8	712.8	674.2	642.3	633.2	624.0
35°	667.9	606.8	571.1	529.5	512.9	496.3	484.8
37.5°	540.3	493.1	450.7	423.6	406.9	396.4	390.7
40°	467.2	424.6	389.7	367.7	355.0	343.2	341.5
42.5°	408.8	369.3	343.0	325.5	313.3	308.3	304.6
45°	334.8	307.3	289.6	277.1	269.0	265.9	261.7
47.5°	283.5	263.9	250.7	242.2	236.0	233.7	233.4
50°	254.7	238.4	228.7	222.0	217.3	216.4	213.1
52.5°	233.1	219.0	211.4	205.6	202.2	199.8	198.9
55°	202.3	193.0	186.1	182.8	180.1	177.8	177.8
57.5°	177.0	169.2	164.7	161.8	161.0	159.4	158.4
60°	161.4	154.8	151.2	148.7	147.0	147.3	145.4
62.5°	146.2	141.8	138.4	136.0	133.9	134.0	134.1
65°	124.4	121.1	118.6	117.8	116.5	115.1	115.5
67.5°	105.5	102.4	100.4	99.0	98.5	97.7	99.0
70°	91.8	89.5	88.1	86.9	86.4	86.6	87.7
72.5°	79.4	77.8	76.8	76.2	75.3	75.3	76.1
75°	62.3	61.1	60.3	59.7	59.4	59.4	59.4
77.5°	45.7	45.5	45.1	44.2	44.2	44.5	44.5
80°	36.1	35.5	35.3	34.9	34.2	33.9	34.9
82.5°	27.0	26.4	26.2	26.1	25.1	25.1	25.9
85°	14.5	13.9	14.1	13.9	13.9	13.7	13.7
87.5°	10.5	10.6	10.8	10.8	10.8	10.9	11.0
90°	26.9	28.0	30.1	29.0	30.1	31.1	30.1
92.5°	69.2	61.1	55.7	53.9	50.7	51.8	49.9
95°	252.8	197.9	160.6	140.9	131.6	124.3	120.2
97.5°	744.7	611.1	487.1	410.7	364.1	336.1	327.2
100°	1137.6	1016.4	869.2	764.6	688.9	648.5	649.6
102.5°	1315.7	1245.1	1151.8	1070.4	1010.6	976.8	953.0
105°	1450.5	1470.2	1443.2	1395.5	1356.2	1323.0	1317.9
107.5°	1433.4	1524.2	1561.1	1561.9	1548.6	1537.5	1527.9
110°	1378.0	1508.5	1581.0	1610.0	1618.3	1616.2	1614.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	1305.0	1451.3	1544.5	1597.6	1623.3	1631.1	1631.6
115°	1188.3	1340.6	1453.6	1531.2	1576.8	1597.6	1602.8
117.5°	1089.7	1226.5	1341.0	1422.1	1474.3	1504.1	1511.2
120°	1035.0	1159.3	1264.0	1345.8	1403.8	1428.7	1434.9
122.5°	991.0	1106.3	1203.5	1276.2	1328.4	1355.8	1363.6
125°	936.6	1036.0	1118.9	1185.3	1230.8	1256.7	1264.0
127.5°	888.7	978.4	1053.8	1112.9	1151.8	1175.3	1181.9
130°	858.9	942.8	1013.3	1068.2	1105.5	1127.2	1135.5
132.5°	830.7	908.8	976.0	1027.5	1064.8	1084.1	1089.9
135°	790.5	857.8	916.9	967.7	998.7	1017.4	1024.7
137.5°	751.7	809.8	860.9	903.7	935.1	950.8	955.6
140°	729.3	779.1	823.7	863.0	892.1	908.6	907.6
142.5°	707.8	750.9	789.7	823.2	848.9	863.8	862.8
145°	679.7	712.8	742.8	768.7	790.5	798.8	800.8
147.5°	658.7	685.5	706.8	726.5	741.2	749.0	749.8
150°	645.4	667.2	686.9	702.4	713.8	720.1	720.1
152.5°	633.0	652.3	668.7	680.9	691.4	695.2	695.2
155°	615.4	631.0	643.4	652.7	661.0	663.1	664.1
157.5°	598.2	610.2	619.9	628.0	634.3	635.9	635.7
160°	587.5	597.8	605.0	612.3	618.5	618.5	617.5
162.5°	575.9	585.3	591.7	596.6	601.9	601.9	600.9
165°	559.5	566.7	571.9	576.0	580.1	579.2	579.2
167.5°	546.8	551.0	554.7	556.5	559.5	558.4	558.4
170°	537.7	541.8	543.9	544.9	547.1	546.0	546.0
172.5°	530.2	533.6	534.8	535.0	537.1	535.2	534.4
175°	520.0	522.2	522.2	522.2	523.2	522.2	521.1
177.5°	514.2	515.1	515.1	514.2	515.1	513.4	513.4
180°	511.8	511.8	511.8	511.8	511.8	511.8	511.8

(END OF REPORT)