

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P331894-927

Luminaire Tested: **S123DIP-S340D1025U927-4F0-1E-UDD-A4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331894-927
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-S340D1025U927-4F0-1E-UDD-A4
Description: DEFINE 3 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1025 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4091.6 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.23 / 1.49
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

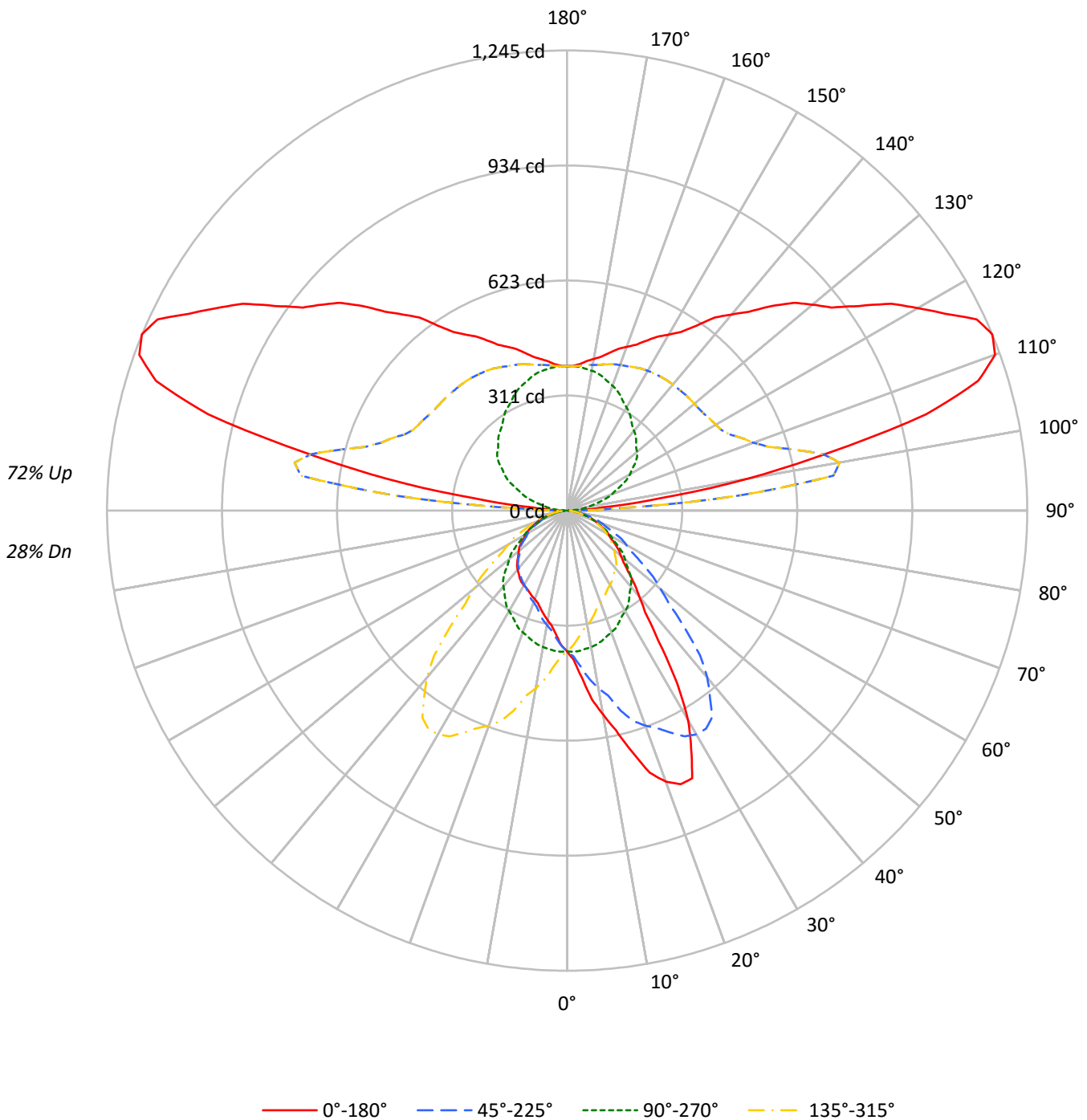
Input Watts (W): 37.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	59	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26	20
3	77	68	61	56	69	61	56	51	48	44	41	36	34	31	25	24	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	23	21	19	15
5	65	54	46	40	58	48	42	37	38	34	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	35	30	26	26	23	20	18	16	15	12
7	55	43	36	30	49	39	33	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	27	46	35	29	24	28	24	20	22	18	16	15	13	12	9
9	47	36	28	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8
10	44	33	26	21	40	30	23	19	24	19	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.9
10°-20°	120.3	2.9
20°-30°	201.9	4.9
30°-40°	228.6	5.6
40°-50°	205.0	5.0
50°-60°	165.5	4.0
60°-70°	115.3	2.8
70°-80°	60.6	1.5
80°-90°	17.8	0.4
90°-100°	217.4	5.3
100°-110°	615.6	15.0
110°-120°	605.5	14.8
120°-130°	483.0	11.8
130°-140°	380.8	9.3
140°-150°	284.2	6.9
150°-160°	198.1	4.8
160°-170°	116.4	2.8
170°-180°	37.9	0.9
0°-30°	359.8	8.8
0°-40°	588.4	14.4
0°-60°	958.9	23.4
0°-90°	1152.7	28.2
90°-120°	1438.5	35.2
90°-150°	2586.5	63.2
90°-180°	2939.0	71.8
0°-180°	4091.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	381	381	381	381	381	
5°	452	381	338	381	452	47
15°	674	365	275	365	674	194
25°	800	333	243	333	800	351
35°	431	292	223	292	431	280
45°	232	240	190	240	232	184
55°	158	169	151	169	158	142
65°	103	104	106	104	103	102
75°	53	50	57	50	53	56
85°	12	10	11	10	12	15
90°	23	2	23	2	23	13
95°	92	27	92	27	92	165
105°	1006	92	1006	92	1006	992
115°	1223	162	1223	162	1223	1189
125°	965	225	965	225	965	874
135°	782	264	782	264	782	607
145°	611	301	611	301	611	389
155°	507	342	507	342	507	236
165°	442	374	442	374	442	126
175°	398	390	398	390	398	39
180°	391	391	391	391	391	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	404.3	403.9	403.2	403.8	402.6	401.0	400.8	399.3	395.1	394.8	393.6
5°	452.5	451.1	450.8	450.7	448.1	444.6	437.9	437.4	428.5	424.1	418.7
7.5°	515.1	515.8	513.1	510.8	502.9	497.6	490.5	481.4	470.6	459.5	452.2
10°	559.9	566.0	558.5	553.3	548.5	539.5	528.9	515.8	502.7	487.4	475.8
12.5°	608.1	611.0	609.5	604.7	597.2	583.4	564.8	550.3	538.3	512.8	502.5
15°	673.6	684.8	677.6	661.1	661.4	648.3	624.0	597.2	583.0	560.6	530.2
17.5°	743.5	744.8	741.8	727.9	718.7	700.7	678.2	652.6	623.8	596.8	564.4
20°	780.6	779.5	773.1	765.9	750.0	736.0	711.5	682.9	645.9	619.3	584.1
22.5°	801.3	799.5	796.4	790.4	777.2	762.2	740.1	708.8	673.7	637.1	596.4
25°	799.5	801.8	802.2	800.6	796.0	787.0	769.6	744.7	709.6	662.5	620.1
27.5°	727.1	730.6	740.4	749.2	758.9	768.9	767.5	755.2	729.2	688.6	636.7
30°	654.8	647.4	665.7	688.7	704.4	732.1	747.6	748.5	734.0	699.1	648.5
32.5°	554.4	562.5	570.6	599.0	633.3	664.3	695.2	720.0	722.9	699.7	655.5
35°	430.7	440.9	455.7	470.4	507.3	539.1	593.3	640.6	678.2	683.2	656.1
37.5°	347.1	352.1	361.5	376.3	400.4	438.1	480.0	539.7	594.3	634.9	636.6
40°	303.4	304.9	315.4	326.6	346.2	377.2	415.0	467.9	533.1	589.9	613.5
42.5°	270.6	273.9	278.4	289.1	304.8	328.0	363.2	406.9	466.8	532.0	578.1
45°	232.5	236.2	239.0	246.2	257.3	273.0	297.5	337.4	382.9	450.3	512.5
47.5°	207.4	207.6	209.7	215.2	222.7	234.5	251.8	277.4	319.2	373.9	437.8
50°	189.3	192.3	193.1	197.3	203.2	211.8	226.2	248.0	282.3	330.3	389.0
52.5°	176.7	177.5	179.6	182.7	187.8	194.6	207.1	224.1	251.0	292.0	345.9
55°	158.0	158.0	160.0	162.4	165.3	171.4	179.7	192.3	212.8	244.5	289.2
57.5°	140.7	141.6	143.1	143.8	146.3	150.4	157.2	166.8	182.0	206.5	242.0
60°	129.2	130.9	130.6	132.1	134.4	137.5	143.4	151.1	164.8	184.3	214.3
62.5°	119.1	119.1	119.0	120.8	122.9	126.0	129.8	136.5	148.1	165.5	190.9
65°	102.6	102.3	103.5	104.6	105.4	107.6	110.5	116.5	124.2	137.1	156.9
67.5°	87.9	86.8	87.5	87.9	89.2	90.9	93.7	97.4	103.5	113.8	128.7
70°	77.9	76.9	76.8	77.2	78.3	79.5	81.6	85.1	90.8	99.1	110.0
72.5°	67.6	66.9	66.9	67.7	68.2	69.1	70.5	73.7	78.3	84.5	94.7
75°	52.8	52.8	52.8	53.0	53.6	54.3	55.4	57.0	60.5	65.0	71.8
77.5°	39.5	39.5	39.3	39.3	40.1	40.4	40.6	42.2	44.2	47.1	52.1
80°	31.0	30.1	30.4	31.0	31.4	31.5	32.1	32.5	34.1	35.8	39.3
82.5°	23.1	22.3	22.3	23.2	23.3	23.4	24.0	24.5	25.1	26.6	28.5
85°	12.2	12.2	12.4	12.4	12.5	12.4	12.9	13.1	13.1	14.0	15.1
87.5°	9.0	8.9	8.9	8.9	8.9	8.7	8.7	8.7	8.6	9.0	8.6
90°	22.9	23.7	22.9	22.1	22.9	21.4	20.6	19.8	19.0	19.8	17.4
92.5°	38.1	39.5	38.7	41.1	42.5	46.7	52.8	66.5	91.7	121.6	133.8
95°	91.7	94.9	100.4	107.6	122.6	151.1	193.0	284.6	380.3	468.9	417.5
97.5°	249.7	256.5	277.9	313.5	371.8	466.4	568.4	709.6	777.4	726.7	532.0
100°	495.8	495.0	525.9	583.6	663.5	775.7	868.2	932.3	904.6	748.8	506.0
102.5°	727.3	745.5	771.3	817.0	879.2	950.3	1004.2	1006.3	910.9	707.7	468.1
105°	1005.8	1009.8	1035.1	1065.1	1101.5	1122.0	1107.1	1027.9	862.7	635.7	421.4
107.5°	1166.2	1173.5	1182.0	1192.2	1191.5	1163.3	1094.1	965.7	778.2	572.2	391.7
110°	1232.0	1233.6	1235.2	1228.8	1206.7	1151.3	1051.7	906.2	725.1	536.1	380.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1245.2	1244.9	1238.9	1219.3	1178.8	1107.6	996.0	847.3	678.9	512.1	374.0
115°	1223.3	1219.3	1203.5	1168.7	1109.4	1023.2	907.0	769.4	623.1	486.3	371.6
117.5°	1153.3	1148.0	1125.2	1085.4	1023.5	936.0	831.7	713.0	589.4	471.1	373.0
120°	1095.2	1090.4	1071.4	1027.1	964.7	884.9	790.0	683.2	571.7	464.1	375.6
122.5°	1040.8	1034.7	1013.9	974.1	918.5	844.4	756.5	659.8	557.1	459.7	380.0
125°	964.7	959.2	939.4	904.6	854.0	790.8	714.9	628.7	538.5	453.9	386.7
127.5°	902.1	897.0	879.2	849.4	804.3	746.8	678.3	601.4	522.0	451.1	394.3
130°	866.6	860.3	843.8	815.2	773.3	719.5	655.5	584.4	513.2	449.2	399.3
132.5°	831.9	827.4	812.7	784.3	744.9	693.6	634.0	568.5	504.9	448.5	403.1
135°	782.0	776.5	762.2	738.6	699.8	654.7	603.3	547.2	494.2	447.6	408.8
137.5°	729.4	725.7	713.8	689.7	657.1	618.1	573.8	527.8	484.9	445.8	412.6
140°	692.7	693.5	680.8	658.7	628.7	594.6	556.7	516.3	479.2	445.2	415.1
142.5°	658.5	659.3	647.9	628.4	602.7	573.1	540.3	505.6	474.1	443.9	417.0
145°	611.2	609.7	603.3	586.7	567.0	544.0	518.7	492.7	467.3	442.0	418.3
147.5°	572.4	571.7	565.7	554.4	539.5	523.2	502.7	482.0	460.7	439.0	418.3
150°	549.5	549.5	544.8	536.1	524.3	509.2	492.7	474.4	456.2	436.5	418.3
152.5°	530.6	530.6	527.8	519.7	510.3	497.9	483.2	467.5	451.2	433.3	416.4
155°	506.8	506.0	504.5	498.2	491.1	481.6	469.7	457.0	443.6	427.8	414.3
157.5°	485.2	485.4	484.1	479.3	473.2	465.7	456.5	446.0	435.1	422.9	411.7
160°	471.3	472.1	472.1	467.3	461.8	456.2	448.4	439.7	429.4	419.1	410.4
162.5°	458.6	459.4	459.4	455.3	451.7	446.8	439.5	432.1	423.7	415.3	407.9
165°	442.0	442.0	442.8	439.7	436.5	432.5	427.0	422.2	415.9	409.6	404.1
167.5°	426.2	426.2	427.0	424.8	423.3	420.5	417.3	413.7	408.5	403.9	400.3
170°	416.7	416.7	417.5	415.9	415.1	413.5	410.4	408.1	404.1	400.1	397.8
172.5°	407.9	408.5	410.0	408.4	408.2	407.3	404.7	403.0	399.7	397.0	395.9
175°	397.8	398.5	399.3	398.5	398.5	398.5	397.0	396.2	394.6	393.0	393.0
177.5°	391.9	391.9	393.2	392.5	393.2	393.2	392.5	391.9	391.3	390.6	391.3
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	392.7	391.6	390.4	388.3	386.5	384.0	383.3	382.4	379.7	377.4	375.6
5°	416.7	412.3	405.8	399.9	395.1	388.6	385.0	381.1	375.6	370.6	366.5
7.5°	441.8	433.1	423.0	412.3	402.1	392.4	384.5	377.5	369.7	362.4	356.6
10°	461.8	449.2	435.1	420.0	407.1	394.6	384.0	374.9	364.9	356.2	349.0
12.5°	484.5	465.9	446.6	428.2	412.9	395.5	382.7	371.0	359.7	349.3	341.2
15°	511.4	487.7	464.9	439.6	416.4	394.6	379.5	364.6	351.6	340.9	330.5
17.5°	535.9	509.1	479.0	448.2	420.2	394.3	373.2	356.5	340.1	327.0	316.7
20°	549.8	519.4	485.2	453.3	422.2	393.5	370.2	350.3	332.6	318.7	307.1
22.5°	561.7	526.1	490.8	456.6	422.1	391.1	364.7	344.2	325.0	311.5	299.1
25°	574.2	531.5	496.1	456.1	417.5	385.3	355.8	332.6	313.4	297.5	284.8
27.5°	584.8	531.2	489.1	446.0	410.1	378.0	346.4	321.5	301.1	283.8	270.9
30°	591.8	531.9	481.9	439.3	403.1	369.9	339.2	314.1	292.7	275.2	263.0
32.5°	596.3	531.4	475.2	429.8	391.8	362.4	331.4	305.4	283.4	266.2	254.4
35°	598.9	528.1	463.7	410.3	373.8	345.1	319.1	292.2	269.1	253.0	239.7
37.5°	593.7	521.3	450.5	391.4	351.4	323.3	301.3	278.5	256.4	238.7	227.2
40°	585.6	516.9	440.1	378.1	336.0	309.0	290.3	267.8	246.0	229.2	218.5
42.5°	570.1	507.9	428.8	363.4	320.1	293.0	275.8	257.0	236.4	220.6	209.9
45°	532.3	488.3	411.7	341.3	296.6	268.5	253.4	239.7	221.1	205.8	196.5
47.5°	479.7	458.8	387.1	317.9	272.0	245.0	229.3	218.3	204.7	192.3	183.5
50°	443.3	434.6	370.4	301.9	255.6	229.2	214.0	204.1	194.3	182.0	173.9
52.5°	401.2	406.5	350.9	285.4	238.9	212.9	198.8	190.8	182.0	171.7	164.7
55°	342.0	361.3	317.3	257.6	214.0	189.3	175.9	168.9	163.7	156.1	150.0
57.5°	286.5	311.2	280.8	229.0	189.6	168.3	155.4	147.8	144.5	140.5	135.7
60°	253.6	277.9	254.8	209.8	173.3	153.0	141.6	135.1	131.7	129.0	124.9
62.5°	224.2	248.8	229.5	190.4	157.2	138.4	128.4	122.1	119.5	118.1	114.6
65°	183.8	205.0	192.1	160.0	134.2	117.6	108.5	104.1	101.7	101.2	98.9
67.5°	149.6	165.7	156.4	132.7	112.4	98.1	90.4	86.6	84.8	84.5	82.9
70°	127.1	142.3	135.1	113.7	96.2	84.9	78.3	74.9	73.8	73.7	72.7
72.5°	109.7	120.3	114.5	96.7	83.2	73.0	68.0	64.6	63.4	63.6	63.0
75°	81.2	89.1	85.8	73.4	62.6	55.9	51.9	49.7	48.6	49.1	48.3
77.5°	58.5	63.5	60.4	51.9	45.2	40.4	37.4	36.0	35.0	35.0	34.7
80°	44.1	47.1	45.4	40.2	34.7	30.7	28.2	27.3	26.8	26.5	26.4
82.5°	31.4	33.9	31.9	28.4	24.6	22.2	20.8	19.6	19.3	19.3	19.2
85°	15.8	16.8	16.1	13.9	12.4	11.2	10.5	10.0	9.6	9.7	9.4
87.5°	8.5	8.2	7.2	6.3	5.7	4.8	4.4	3.9	3.9	4.2	4.5
90°	15.1	12.7	10.3	8.7	7.1	4.8	3.2	1.6	3.2	4.8	7.1
92.5°	100.4	66.4	45.7	34.0	27.3	21.2	14.6	9.8	14.6	21.2	27.3
95°	287.8	170.0	102.8	71.9	51.4	37.9	29.2	26.9	29.2	37.9	51.4
97.5°	315.8	183.0	118.7	85.4	65.1	53.5	46.7	45.9	46.7	53.5	65.1
100°	298.1	181.1	125.7	94.9	75.9	64.9	59.3	58.5	59.3	64.9	75.9
102.5°	282.9	183.6	134.0	105.7	88.6	78.1	73.2	71.8	73.2	78.1	88.6
105°	272.0	190.6	147.9	123.3	108.4	98.9	94.1	91.7	94.1	98.9	108.4
107.5°	271.2	203.5	166.0	143.3	129.2	119.9	115.3	112.9	115.3	119.9	129.2
110°	274.4	214.3	178.7	156.5	143.1	134.4	130.5	128.1	130.5	134.4	143.1



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	280.7	225.1	192.0	170.5	157.0	148.4	144.4	142.0	144.4	148.4	157.0
115°	291.0	242.7	212.7	191.4	177.9	170.0	165.2	162.1	165.2	170.0	177.9
117.5°	304.6	261.6	231.9	212.1	197.0	189.8	185.8	182.2	185.8	189.8	197.0
120°	314.7	273.6	245.1	225.4	210.3	202.4	198.4	196.1	198.4	202.4	210.3
122.5°	324.2	286.2	258.4	237.4	223.0	214.4	210.5	208.1	210.5	214.4	223.0
125°	339.2	304.4	276.8	255.4	240.3	231.7	227.0	225.4	227.0	231.7	240.3
127.5°	351.6	320.3	293.5	272.2	255.6	246.7	240.8	238.5	240.8	246.7	255.6
130°	359.8	329.7	303.6	282.3	265.7	256.2	249.1	246.7	249.1	256.2	265.7
132.5°	367.4	337.9	312.5	291.8	275.2	263.8	256.0	253.0	256.0	263.8	275.2
135°	377.2	350.3	325.7	304.4	287.8	276.0	267.3	264.1	267.3	276.0	287.8
137.5°	384.4	358.9	335.3	315.5	299.0	286.4	277.9	274.6	277.9	286.4	299.0
140°	388.2	364.6	341.6	321.9	306.0	293.3	285.4	281.5	285.4	293.3	306.0
142.5°	392.1	369.0	346.7	328.1	312.4	301.0	292.4	289.1	292.4	301.0	312.4
145°	396.2	374.8	354.3	336.0	322.7	310.8	303.6	301.3	303.6	310.8	322.7
147.5°	398.7	379.5	360.8	345.2	332.2	322.0	315.1	313.6	315.1	322.0	332.2
150°	399.3	382.7	364.6	350.3	339.2	328.9	322.7	321.9	322.7	328.9	339.2
152.5°	400.6	384.6	369.0	355.4	345.5	336.5	330.2	330.0	330.2	336.5	345.5
155°	400.9	388.2	374.8	363.8	355.1	347.1	342.4	342.4	342.4	347.1	355.1
157.5°	401.7	390.3	379.5	371.0	363.6	356.6	352.8	352.2	352.8	356.6	363.6
160°	401.7	392.2	382.7	374.8	369.2	363.0	359.8	359.8	359.8	363.0	369.2
162.5°	401.1	392.8	384.6	378.0	373.0	368.0	365.5	365.5	365.5	368.0	373.0
165°	399.3	393.8	387.5	381.9	378.7	374.8	373.2	374.0	373.2	374.8	378.7
167.5°	398.1	393.6	389.0	385.6	383.3	380.3	379.5	380.5	379.5	380.3	383.3
170°	396.2	393.0	389.0	387.5	385.9	383.5	382.7	384.3	382.7	383.5	385.9
172.5°	395.5	393.0	389.7	388.7	387.8	386.0	385.9	386.8	385.9	386.0	387.8
175°	393.8	392.2	390.6	389.8	389.8	388.2	389.0	389.8	389.0	388.2	389.8
177.5°	392.5	391.3	390.6	390.6	390.6	390.0	390.6	391.3	390.6	390.0	390.6
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	374.5	373.5	372.1	369.9	368.0	365.3	365.3	365.7	365.7	365.6	365.3
5°	363.2	360.4	357.1	353.2	349.2	345.1	344.4	342.9	341.8	341.0	340.2
7.5°	351.2	346.3	341.4	336.0	331.1	327.0	324.2	321.8	320.3	318.6	317.4
10°	343.1	337.0	331.3	325.6	319.2	314.3	311.2	309.0	307.3	305.8	305.1
12.5°	333.5	326.5	320.2	314.7	307.9	302.8	299.8	298.7	296.8	293.7	292.1
15°	319.5	313.0	305.5	297.1	293.8	287.6	284.0	282.3	281.2	278.8	278.1
17.5°	307.4	299.0	290.5	284.3	278.1	273.1	271.1	269.0	267.6	265.6	265.0
20°	297.9	290.3	282.6	275.9	269.4	263.9	262.2	260.8	259.3	258.4	257.6
22.5°	288.1	280.6	274.1	267.9	261.0	257.4	255.6	254.0	252.9	252.3	251.6
25°	274.4	267.8	260.5	255.1	249.5	247.1	246.0	245.1	244.3	243.4	243.2
27.5°	262.2	254.9	249.1	243.9	240.0	238.0	236.9	236.5	236.6	236.9	237.2
30°	253.0	246.4	241.6	237.2	233.5	231.6	231.4	231.4	232.2	232.3	232.7
32.5°	244.6	239.2	234.3	230.0	227.3	226.0	226.7	226.7	227.3	227.8	228.5
35°	232.3	227.5	223.9	220.1	217.8	218.3	218.7	219.0	220.0	221.1	221.8
37.5°	220.6	216.5	212.6	209.8	208.7	209.6	210.6	211.3	212.4	213.3	214.0
40°	212.2	209.1	205.4	202.8	203.2	203.7	204.5	205.4	206.4	206.9	207.6
42.5°	204.4	201.1	198.3	196.1	196.7	197.4	197.8	198.3	199.4	200.4	200.8
45°	192.5	189.9	187.4	186.0	186.4	186.8	187.1	187.7	188.6	189.3	189.6
47.5°	179.1	177.3	175.5	174.3	174.9	174.8	175.2	176.4	176.7	177.1	178.2
50°	170.6	168.9	166.8	166.4	166.4	166.4	166.7	168.1	168.1	168.9	169.6
52.5°	161.1	160.0	158.8	158.0	157.7	157.7	158.5	159.2	159.5	160.6	161.4
55°	147.1	146.0	144.9	144.3	143.9	144.3	145.8	146.2	147.1	147.7	148.2
57.5°	132.5	131.7	130.8	130.5	130.4	130.9	131.7	132.8	133.0	134.8	135.5
60°	122.9	121.6	120.9	120.9	120.5	122.2	121.8	123.7	124.1	125.2	126.4
62.5°	113.0	111.3	111.0	111.0	111.5	112.0	112.5	113.3	114.3	115.7	116.7
65°	97.0	96.2	97.4	97.3	96.9	98.0	98.0	98.9	100.1	101.3	103.4
67.5°	82.0	81.5	81.6	81.6	82.1	82.8	83.3	84.1	85.5	86.8	88.2
70°	71.8	72.3	71.5	72.2	72.7	72.9	73.3	74.4	75.8	76.8	78.3
72.5°	61.9	61.9	61.9	62.3	62.8	63.1	63.5	64.8	66.4	67.2	68.4
75°	47.6	47.5	48.0	48.0	48.9	49.3	49.7	50.2	51.7	52.8	53.7
77.5°	34.8	35.0	34.9	35.5	35.3	35.3	36.4	37.0	37.2	39.4	39.8
80°	26.2	26.5	26.8	26.9	27.1	26.8	28.0	28.6	28.6	29.9	30.8
82.5°	18.9	19.0	19.5	19.7	19.7	20.1	20.2	20.6	21.1	21.6	22.8
85°	9.4	10.0	10.1	10.0	10.1	9.7	10.3	10.5	10.7	10.7	10.7
87.5°	4.7	5.1	5.5	6.1	6.4	7.1	6.9	6.7	6.9	7.5	7.2
90°	8.7	10.3	12.7	15.1	17.4	19.8	19.0	19.8	20.6	21.4	22.9
92.5°	34.0	45.7	66.4	100.4	133.8	121.6	91.7	66.5	52.8	46.7	42.5
95°	71.9	102.8	170.0	287.8	417.5	468.9	380.3	284.6	193.0	151.1	122.6
97.5°	85.4	118.7	183.0	315.8	532.0	726.7	777.4	709.6	568.4	466.4	371.8
100°	94.9	125.7	181.1	298.1	506.0	748.8	904.6	932.3	868.2	775.7	663.5
102.5°	105.7	134.0	183.6	282.9	468.1	707.7	910.9	1006.3	1004.2	950.3	879.2
105°	123.3	147.9	190.6	272.0	421.4	635.7	862.7	1027.9	1107.1	1122.0	1101.5
107.5°	143.3	166.0	203.5	271.2	391.7	572.2	778.2	965.7	1094.1	1163.3	1191.5
110°	156.5	178.7	214.3	274.4	380.3	536.1	725.1	906.2	1051.7	1151.3	1206.7



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	170.5	192.0	225.1	280.7	374.0	512.1	678.9	847.3	996.0	1107.6	1178.8
115°	191.4	212.7	242.7	291.0	371.6	486.3	623.1	769.4	907.0	1023.2	1109.4
117.5°	212.1	231.9	261.6	304.6	373.0	471.1	589.4	713.0	831.7	936.0	1023.5
120°	225.4	245.1	273.6	314.7	375.6	464.1	571.7	683.2	790.0	884.9	964.7
122.5°	237.4	258.4	286.2	324.2	380.0	459.7	557.1	659.8	756.5	844.4	918.5
125°	255.4	276.8	304.4	339.2	386.7	453.9	538.5	628.7	714.9	790.8	854.0
127.5°	272.2	293.5	320.3	351.6	394.3	451.1	522.0	601.4	678.3	746.8	804.3
130°	282.3	303.6	329.7	359.8	399.3	449.2	513.2	584.4	655.5	719.5	773.3
132.5°	291.8	312.5	337.9	367.4	403.1	448.5	504.9	568.5	634.0	693.6	744.9
135°	304.4	325.7	350.3	377.2	408.8	447.6	494.2	547.2	603.3	654.7	699.8
137.5°	315.5	335.3	358.9	384.4	412.6	445.8	484.9	527.8	573.8	618.1	657.1
140°	321.9	341.6	364.6	388.2	415.1	445.2	479.2	516.3	556.7	594.6	628.7
142.5°	328.1	346.7	369.0	392.1	417.0	443.9	474.1	505.6	540.3	573.1	602.7
145°	336.0	354.3	374.8	396.2	418.3	442.0	467.3	492.7	518.7	544.0	567.0
147.5°	345.2	360.8	379.5	398.7	418.3	439.0	460.7	482.0	502.7	523.2	539.5
150°	350.3	364.6	382.7	399.3	418.3	436.5	456.2	474.4	492.7	509.2	524.3
152.5°	355.4	369.0	384.6	400.6	416.4	433.3	451.2	467.5	483.2	497.9	510.3
155°	363.8	374.8	388.2	400.9	414.3	427.8	443.6	457.0	469.7	481.6	491.1
157.5°	371.0	379.5	390.3	401.7	411.7	422.9	435.1	446.0	456.5	465.7	473.2
160°	374.8	382.7	392.2	401.7	410.4	419.1	429.4	439.7	448.4	456.2	461.8
162.5°	378.0	384.6	392.8	401.1	407.9	415.3	423.7	432.1	439.5	446.8	451.7
165°	381.9	387.5	393.8	399.3	404.1	409.6	415.9	422.2	427.0	432.5	436.5
167.5°	385.6	389.0	393.6	398.1	400.3	403.9	408.5	413.7	417.3	420.5	423.3
170°	387.5	389.0	393.0	396.2	397.8	400.1	404.1	408.1	410.4	413.5	415.1
172.5°	388.7	389.7	393.0	395.5	395.9	397.0	399.7	403.0	404.7	407.3	408.2
175°	389.8	390.6	392.2	393.8	393.0	393.0	394.6	396.2	397.0	398.5	398.5
177.5°	390.6	390.6	391.3	392.5	391.3	390.6	391.3	391.9	392.5	393.2	393.2
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	364.2	364.1	365.1	364.4	365.1	364.1	364.2	365.3	365.6	365.7	365.7
5°	339.1	339.6	337.7	337.7	337.7	339.6	339.1	340.2	341.0	341.8	342.9
7.5°	316.6	315.8	315.8	314.8	315.8	315.8	316.6	317.4	318.6	320.3	321.8
10°	302.9	301.7	301.3	301.6	301.3	301.7	302.9	305.1	305.8	307.3	309.0
12.5°	291.4	291.3	288.8	288.8	288.8	291.3	291.4	292.1	293.7	296.8	298.7
15°	278.1	274.6	274.3	275.4	274.3	274.6	278.1	278.1	278.8	281.2	282.3
17.5°	264.7	262.8	263.0	262.4	263.0	262.8	264.7	265.0	265.6	267.6	269.0
20°	257.6	256.5	256.4	255.1	256.4	256.5	257.6	257.6	258.4	259.3	260.8
22.5°	251.1	250.8	250.9	249.5	250.9	250.8	251.1	251.6	252.3	252.9	254.0
25°	243.0	244.0	243.2	243.2	243.2	244.0	243.0	243.2	243.4	244.3	245.1
27.5°	237.6	237.6	237.2	237.2	237.2	237.6	237.6	237.2	236.9	236.6	236.5
30°	233.5	233.3	233.6	233.6	233.6	233.3	233.5	232.7	232.3	232.2	231.4
32.5°	229.3	229.6	229.7	229.8	229.7	229.6	229.3	228.5	227.8	227.3	226.7
35°	222.9	223.2	223.7	223.3	223.7	223.2	222.9	221.8	221.1	220.0	219.0
37.5°	214.3	215.2	215.0	215.2	215.0	215.2	214.3	214.0	213.3	212.4	211.3
40°	207.8	208.3	208.2	208.2	208.2	208.3	207.8	207.6	206.9	206.4	205.4
42.5°	201.1	201.5	201.1	200.8	201.1	201.5	201.1	200.8	200.4	199.4	198.3
45°	190.3	189.9	190.4	189.7	190.4	189.9	190.3	189.6	189.3	188.6	187.7
47.5°	178.1	178.5	178.6	179.2	178.6	178.5	178.1	178.2	177.1	176.7	176.4
50°	170.0	171.1	171.1	170.9	171.1	171.1	170.0	169.6	168.9	168.1	168.1
52.5°	162.0	162.5	163.3	163.2	163.3	162.5	162.0	161.4	160.6	159.5	159.2
55°	149.6	150.0	150.4	150.6	150.4	150.0	149.6	148.2	147.7	147.1	146.2
57.5°	136.9	136.7	137.6	137.9	137.6	136.7	136.9	135.5	134.8	133.0	132.8
60°	127.9	127.9	129.4	129.9	129.4	127.9	127.9	126.4	125.2	124.1	123.7
62.5°	118.3	118.9	120.3	119.6	120.3	118.9	118.3	116.7	115.7	114.3	113.3
65°	104.3	105.8	105.6	106.3	105.6	105.8	104.3	103.4	101.3	100.1	98.9
67.5°	89.6	90.5	91.9	92.0	91.9	90.5	89.6	88.2	86.8	85.5	84.1
70°	79.7	80.6	81.4	81.9	81.4	80.6	79.7	78.3	76.8	75.8	74.4
72.5°	70.1	70.6	72.4	71.6	72.4	70.6	70.1	68.4	67.2	66.4	64.8
75°	55.0	56.3	57.4	56.9	57.4	56.3	55.0	53.7	52.8	51.7	50.2
77.5°	40.6	42.0	42.5	42.0	42.5	42.0	40.6	39.8	39.4	37.2	37.0
80°	32.1	31.9	33.0	32.9	33.0	31.9	32.1	30.8	29.9	28.6	28.6
82.5°	23.5	23.4	23.8	24.0	23.8	23.4	23.5	22.8	21.6	21.1	20.6
85°	11.4	12.0	11.2	11.1	11.2	12.0	11.4	10.7	10.7	10.7	10.5
87.5°	7.1	7.2	7.3	7.0	7.3	7.2	7.1	7.2	7.5	6.9	6.7
90°	22.1	22.9	23.7	22.9	23.7	22.9	22.1	22.9	21.4	20.6	19.8
92.5°	41.1	38.7	39.5	38.1	39.5	38.7	41.1	42.5	46.7	52.8	66.5
95°	107.6	100.4	94.9	91.7	94.9	100.4	107.6	122.6	151.1	193.0	284.6
97.5°	313.5	277.9	256.5	249.7	256.5	277.9	313.5	371.8	466.4	568.4	709.6
100°	583.6	525.9	495.0	495.8	495.0	525.9	583.6	663.5	775.7	868.2	932.3
102.5°	817.0	771.3	745.5	727.3	745.5	771.3	817.0	879.2	950.3	1004.2	1006.3
105°	1065.1	1035.1	1009.8	1005.8	1009.8	1035.1	1065.1	1101.5	1122.0	1107.1	1027.9
107.5°	1192.2	1182.0	1173.5	1166.2	1173.5	1182.0	1192.2	1191.5	1163.3	1094.1	965.7
110°	1228.8	1235.2	1233.6	1232.0	1233.6	1235.2	1228.8	1206.7	1151.3	1051.7	906.2



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1219.3	1238.9	1244.9	1245.2	1244.9	1238.9	1219.3	1178.8	1107.6	996.0	847.3
115°	1168.7	1203.5	1219.3	1223.3	1219.3	1203.5	1168.7	1109.4	1023.2	907.0	769.4
117.5°	1085.4	1125.2	1148.0	1153.3	1148.0	1125.2	1085.4	1023.5	936.0	831.7	713.0
120°	1027.1	1071.4	1090.4	1095.2	1090.4	1071.4	1027.1	964.7	884.9	790.0	683.2
122.5°	974.1	1013.9	1034.7	1040.8	1034.7	1013.9	974.1	918.5	844.4	756.5	659.8
125°	904.6	939.4	959.2	964.7	959.2	939.4	904.6	854.0	790.8	714.9	628.7
127.5°	849.4	879.2	897.0	902.1	897.0	879.2	849.4	804.3	746.8	678.3	601.4
130°	815.2	843.8	860.3	866.6	860.3	843.8	815.2	773.3	719.5	655.5	584.4
132.5°	784.3	812.7	827.4	831.9	827.4	812.7	784.3	744.9	693.6	634.0	568.5
135°	738.6	762.2	776.5	782.0	776.5	762.2	738.6	699.8	654.7	603.3	547.2
137.5°	689.7	713.8	725.7	729.4	725.7	713.8	689.7	657.1	618.1	573.8	527.8
140°	658.7	680.8	693.5	692.7	693.5	680.8	658.7	628.7	594.6	556.7	516.3
142.5°	628.4	647.9	659.3	658.5	659.3	647.9	628.4	602.7	573.1	540.3	505.6
145°	586.7	603.3	609.7	611.2	609.7	603.3	586.7	567.0	544.0	518.7	492.7
147.5°	554.4	565.7	571.7	572.4	571.7	565.7	554.4	539.5	523.2	502.7	482.0
150°	536.1	544.8	549.5	549.5	549.5	544.8	536.1	524.3	509.2	492.7	474.4
152.5°	519.7	527.8	530.6	530.6	530.6	527.8	519.7	510.3	497.9	483.2	467.5
155°	498.2	504.5	506.0	506.8	506.0	504.5	498.2	491.1	481.6	469.7	457.0
157.5°	479.3	484.1	485.4	485.2	485.4	484.1	479.3	473.2	465.7	456.5	446.0
160°	467.3	472.1	472.1	471.3	472.1	472.1	467.3	461.8	456.2	448.4	439.7
162.5°	455.3	459.4	459.4	458.6	459.4	459.4	455.3	451.7	446.8	439.5	432.1
165°	439.7	442.8	442.0	442.0	442.0	442.8	439.7	436.5	432.5	427.0	422.2
167.5°	424.8	427.0	426.2	426.2	426.2	427.0	424.8	423.3	420.5	417.3	413.7
170°	415.9	417.5	416.7	416.7	416.7	417.5	415.9	415.1	413.5	410.4	408.1
172.5°	408.4	410.0	408.5	407.9	408.5	410.0	408.4	408.2	407.3	404.7	403.0
175°	398.5	399.3	398.5	397.8	398.5	399.3	398.5	398.5	398.5	397.0	396.2
177.5°	392.5	393.2	391.9	391.9	391.9	393.2	392.5	393.2	393.2	392.5	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	365.3	365.3	368.0	369.9	372.1	373.5	374.5	375.6	377.4	379.7	382.4
5°	344.4	345.1	349.2	353.2	357.1	360.4	363.2	366.5	370.6	375.6	381.1
7.5°	324.2	327.0	331.1	336.0	341.4	346.3	351.2	356.6	362.4	369.7	377.5
10°	311.2	314.3	319.2	325.6	331.3	337.0	343.1	349.0	356.2	364.9	374.9
12.5°	299.8	302.8	307.9	314.7	320.2	326.5	333.5	341.2	349.3	359.7	371.0
15°	284.0	287.6	293.8	297.1	305.5	313.0	319.5	330.5	340.9	351.6	364.6
17.5°	271.1	273.1	278.1	284.3	290.5	299.0	307.4	316.7	327.0	340.1	356.5
20°	262.2	263.9	269.4	275.9	282.6	290.3	297.9	307.1	318.7	332.6	350.3
22.5°	255.6	257.4	261.0	267.9	274.1	280.6	288.1	299.1	311.5	325.0	344.2
25°	246.0	247.1	249.5	255.1	260.5	267.8	274.4	284.8	297.5	313.4	332.6
27.5°	236.9	238.0	240.0	243.9	249.1	254.9	262.2	270.9	283.8	301.1	321.5
30°	231.4	231.6	233.5	237.2	241.6	246.4	253.0	263.0	275.2	292.7	314.1
32.5°	226.7	226.0	227.3	230.0	234.3	239.2	244.6	254.4	266.2	283.4	305.4
35°	218.7	218.3	217.8	220.1	223.9	227.5	232.3	239.7	253.0	269.1	292.2
37.5°	210.6	209.6	208.7	209.8	212.6	216.5	220.6	227.2	238.7	256.4	278.5
40°	204.5	203.7	203.2	202.8	205.4	209.1	212.2	218.5	229.2	246.0	267.8
42.5°	197.8	197.4	196.7	196.1	198.3	201.1	204.4	209.9	220.6	236.4	257.0
45°	187.1	186.8	186.4	186.0	187.4	189.9	192.5	196.5	205.8	221.1	239.7
47.5°	175.2	174.8	174.9	174.3	175.5	177.3	179.1	183.5	192.3	204.7	218.3
50°	166.7	166.4	166.4	166.4	166.8	168.9	170.6	173.9	182.0	194.3	204.1
52.5°	158.5	157.7	157.7	158.0	158.8	160.0	161.1	164.7	171.7	182.0	190.8
55°	145.8	144.3	143.9	144.3	144.9	146.0	147.1	150.0	156.1	163.7	168.9
57.5°	131.7	130.9	130.4	130.5	130.8	131.7	132.5	135.7	140.5	144.5	147.8
60°	121.8	122.2	120.5	120.9	120.9	121.6	122.9	124.9	129.0	131.7	135.1
62.5°	112.5	112.0	111.5	111.0	111.0	111.3	113.0	114.6	118.1	119.5	122.1
65°	98.0	98.0	96.9	97.3	97.4	96.2	97.0	98.9	101.2	101.7	104.1
67.5°	83.3	82.8	82.1	81.6	81.6	81.5	82.0	82.9	84.5	84.8	86.6
70°	73.3	72.9	72.7	72.2	71.5	72.3	71.8	72.7	73.7	73.8	74.9
72.5°	63.5	63.1	62.8	62.3	61.9	61.9	61.9	63.0	63.6	63.4	64.6
75°	49.7	49.3	48.9	48.0	48.0	47.5	47.6	48.3	49.1	48.6	49.7
77.5°	36.4	35.3	35.3	35.5	34.9	35.0	34.8	34.7	35.0	35.0	36.0
80°	28.0	26.8	27.1	26.9	26.8	26.5	26.2	26.4	26.5	26.8	27.3
82.5°	20.2	20.1	19.7	19.7	19.5	19.0	18.9	19.2	19.3	19.3	19.6
85°	10.3	9.7	10.1	10.0	10.1	10.0	9.4	9.4	9.7	9.6	10.0
87.5°	6.9	7.1	6.4	6.1	5.5	5.1	4.7	4.5	4.2	3.9	3.9
90°	19.0	19.8	17.4	15.1	12.7	10.3	8.7	7.1	4.8	3.2	1.6
92.5°	91.7	121.6	133.8	100.4	66.4	45.7	34.0	27.3	21.2	14.6	9.8
95°	380.3	468.9	417.5	287.8	170.0	102.8	71.9	51.4	37.9	29.2	26.9
97.5°	777.4	726.7	532.0	315.8	183.0	118.7	85.4	65.1	53.5	46.7	45.9
100°	904.6	748.8	506.0	298.1	181.1	125.7	94.9	75.9	64.9	59.3	58.5
102.5°	910.9	707.7	468.1	282.9	183.6	134.0	105.7	88.6	78.1	73.2	71.8
105°	862.7	635.7	421.4	272.0	190.6	147.9	123.3	108.4	98.9	94.1	91.7
107.5°	778.2	572.2	391.7	271.2	203.5	166.0	143.3	129.2	119.9	115.3	112.9
110°	725.1	536.1	380.3	274.4	214.3	178.7	156.5	143.1	134.4	130.5	128.1



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	678.9	512.1	374.0	280.7	225.1	192.0	170.5	157.0	148.4	144.4	142.0
115°	623.1	486.3	371.6	291.0	242.7	212.7	191.4	177.9	170.0	165.2	162.1
117.5°	589.4	471.1	373.0	304.6	261.6	231.9	212.1	197.0	189.8	185.8	182.2
120°	571.7	464.1	375.6	314.7	273.6	245.1	225.4	210.3	202.4	198.4	196.1
122.5°	557.1	459.7	380.0	324.2	286.2	258.4	237.4	223.0	214.4	210.5	208.1
125°	538.5	453.9	386.7	339.2	304.4	276.8	255.4	240.3	231.7	227.0	225.4
127.5°	522.0	451.1	394.3	351.6	320.3	293.5	272.2	255.6	246.7	240.8	238.5
130°	513.2	449.2	399.3	359.8	329.7	303.6	282.3	265.7	256.2	249.1	246.7
132.5°	504.9	448.5	403.1	367.4	337.9	312.5	291.8	275.2	263.8	256.0	253.0
135°	494.2	447.6	408.8	377.2	350.3	325.7	304.4	287.8	276.0	267.3	264.1
137.5°	484.9	445.8	412.6	384.4	358.9	335.3	315.5	299.0	286.4	277.9	274.6
140°	479.2	445.2	415.1	388.2	364.6	341.6	321.9	306.0	293.3	285.4	281.5
142.5°	474.1	443.9	417.0	392.1	369.0	346.7	328.1	312.4	301.0	292.4	289.1
145°	467.3	442.0	418.3	396.2	374.8	354.3	336.0	322.7	310.8	303.6	301.3
147.5°	460.7	439.0	418.3	398.7	379.5	360.8	345.2	332.2	322.0	315.1	313.6
150°	456.2	436.5	418.3	399.3	382.7	364.6	350.3	339.2	328.9	322.7	321.9
152.5°	451.2	433.3	416.4	400.6	384.6	369.0	355.4	345.5	336.5	330.2	330.0
155°	443.6	427.8	414.3	400.9	388.2	374.8	363.8	355.1	347.1	342.4	342.4
157.5°	435.1	422.9	411.7	401.7	390.3	379.5	371.0	363.6	356.6	352.8	352.2
160°	429.4	419.1	410.4	401.7	392.2	382.7	374.8	369.2	363.0	359.8	359.8
162.5°	423.7	415.3	407.9	401.1	392.8	384.6	378.0	373.0	368.0	365.5	365.5
165°	415.9	409.6	404.1	399.3	393.8	387.5	381.9	378.7	374.8	373.2	374.0
167.5°	408.5	403.9	400.3	398.1	393.6	389.0	385.6	383.3	380.3	379.5	380.5
170°	404.1	400.1	397.8	396.2	393.0	389.0	387.5	385.9	383.5	382.7	384.3
172.5°	399.7	397.0	395.9	395.5	393.0	389.7	388.7	387.8	386.0	385.9	386.8
175°	394.6	393.0	393.0	393.8	392.2	390.6	389.8	389.8	388.2	389.0	389.8
177.5°	391.3	390.6	391.3	392.5	391.3	390.6	390.6	390.6	390.0	390.6	391.3
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



TEST NUMBER: P331894-927

CATALOG NUMBER: S123DIP-S340D1025U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	383.3	384.0	386.5	388.3	390.4	391.6	392.7	393.6	394.8	395.1	399.3
5°	385.0	388.6	395.1	399.9	405.8	412.3	416.7	418.7	424.1	428.5	437.4
7.5°	384.5	392.4	402.1	412.3	423.0	433.1	441.8	452.2	459.5	470.6	481.4
10°	384.0	394.6	407.1	420.0	435.1	449.2	461.8	475.8	487.4	502.7	515.8
12.5°	382.7	395.5	412.9	428.2	446.6	465.9	484.5	502.5	512.8	538.3	550.3
15°	379.5	394.6	416.4	439.6	464.9	487.7	511.4	530.2	560.6	583.0	597.2
17.5°	373.2	394.3	420.2	448.2	479.0	509.1	535.9	564.4	596.8	623.8	652.6
20°	370.2	393.5	422.2	453.3	485.2	519.4	549.8	584.1	619.3	645.9	682.9
22.5°	364.7	391.1	422.1	456.6	490.8	526.1	561.7	596.4	637.1	673.7	708.8
25°	355.8	385.3	417.5	456.1	496.1	531.5	574.2	620.1	662.5	709.6	744.7
27.5°	346.4	378.0	410.1	446.0	489.1	531.2	584.8	636.7	688.6	729.2	755.2
30°	339.2	369.9	403.1	439.3	481.9	531.9	591.8	648.5	699.1	734.0	748.5
32.5°	331.4	362.4	391.8	429.8	475.2	531.4	596.3	655.5	699.7	722.9	720.0
35°	319.1	345.1	373.8	410.3	463.7	528.1	598.9	656.1	683.2	678.2	640.6
37.5°	301.3	323.3	351.4	391.4	450.5	521.3	593.7	636.6	634.9	594.3	539.7
40°	290.3	309.0	336.0	378.1	440.1	516.9	585.6	613.5	589.9	533.1	467.9
42.5°	275.8	293.0	320.1	363.4	428.8	507.9	570.1	578.1	532.0	466.8	406.9
45°	253.4	268.5	296.6	341.3	411.7	488.3	532.3	512.5	450.3	382.9	337.4
47.5°	229.3	245.0	272.0	317.9	387.1	458.8	479.7	437.8	373.9	319.2	277.4
50°	214.0	229.2	255.6	301.9	370.4	434.6	443.3	389.0	330.3	282.3	248.0
52.5°	198.8	212.9	238.9	285.4	350.9	406.5	401.2	345.9	292.0	251.0	224.1
55°	175.9	189.3	214.0	257.6	317.3	361.3	342.0	289.2	244.5	212.8	192.3
57.5°	155.4	168.3	189.6	229.0	280.8	311.2	286.5	242.0	206.5	182.0	166.8
60°	141.6	153.0	173.3	209.8	254.8	277.9	253.6	214.3	184.3	164.8	151.1
62.5°	128.4	138.4	157.2	190.4	229.5	248.8	224.2	190.9	165.5	148.1	136.5
65°	108.5	117.6	134.2	160.0	192.1	205.0	183.8	156.9	137.1	124.2	116.5
67.5°	90.4	98.1	112.4	132.7	156.4	165.7	149.6	128.7	113.8	103.5	97.4
70°	78.3	84.9	96.2	113.7	135.1	142.3	127.1	110.0	99.1	90.8	85.1
72.5°	68.0	73.0	83.2	96.7	114.5	120.3	109.7	94.7	84.5	78.3	73.7
75°	51.9	55.9	62.6	73.4	85.8	89.1	81.2	71.8	65.0	60.5	57.0
77.5°	37.4	40.4	45.2	51.9	60.4	63.5	58.5	52.1	47.1	44.2	42.2
80°	28.2	30.7	34.7	40.2	45.4	47.1	44.1	39.3	35.8	34.1	32.5
82.5°	20.8	22.2	24.6	28.4	31.9	33.9	31.4	28.5	26.6	25.1	24.5
85°	10.5	11.2	12.4	13.9	16.1	16.8	15.8	15.1	14.0	13.1	13.1
87.5°	4.4	4.8	5.7	6.3	7.2	8.2	8.5	8.6	9.0	8.6	8.7
90°	3.2	4.8	7.1	8.7	10.3	12.7	15.1	17.4	19.8	19.0	19.8
92.5°	14.6	21.2	27.3	34.0	45.7	66.4	100.4	133.8	121.6	91.7	66.5
95°	29.2	37.9	51.4	71.9	102.8	170.0	287.8	417.5	468.9	380.3	284.6
97.5°	46.7	53.5	65.1	85.4	118.7	183.0	315.8	532.0	726.7	777.4	709.6
100°	59.3	64.9	75.9	94.9	125.7	181.1	298.1	506.0	748.8	904.6	932.3
102.5°	73.2	78.1	88.6	105.7	134.0	183.6	282.9	468.1	707.7	910.9	1006.3
105°	94.1	98.9	108.4	123.3	147.9	190.6	272.0	421.4	635.7	862.7	1027.9
107.5°	115.3	119.9	129.2	143.3	166.0	203.5	271.2	391.7	572.2	778.2	965.7
110°	130.5	134.4	143.1	156.5	178.7	214.3	274.4	380.3	536.1	725.1	906.2



TEST NUMBER: P331894-927

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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	144.4	148.4	157.0	170.5	192.0	225.1	280.7	374.0	512.1	678.9	847.3
115°	165.2	170.0	177.9	191.4	212.7	242.7	291.0	371.6	486.3	623.1	769.4
117.5°	185.8	189.8	197.0	212.1	231.9	261.6	304.6	373.0	471.1	589.4	713.0
120°	198.4	202.4	210.3	225.4	245.1	273.6	314.7	375.6	464.1	571.7	683.2
122.5°	210.5	214.4	223.0	237.4	258.4	286.2	324.2	380.0	459.7	557.1	659.8
125°	227.0	231.7	240.3	255.4	276.8	304.4	339.2	386.7	453.9	538.5	628.7
127.5°	240.8	246.7	255.6	272.2	293.5	320.3	351.6	394.3	451.1	522.0	601.4
130°	249.1	256.2	265.7	282.3	303.6	329.7	359.8	399.3	449.2	513.2	584.4
132.5°	256.0	263.8	275.2	291.8	312.5	337.9	367.4	403.1	448.5	504.9	568.5
135°	267.3	276.0	287.8	304.4	325.7	350.3	377.2	408.8	447.6	494.2	547.2
137.5°	277.9	286.4	299.0	315.5	335.3	358.9	384.4	412.6	445.8	484.9	527.8
140°	285.4	293.3	306.0	321.9	341.6	364.6	388.2	415.1	445.2	479.2	516.3
142.5°	292.4	301.0	312.4	328.1	346.7	369.0	392.1	417.0	443.9	474.1	505.6
145°	303.6	310.8	322.7	336.0	354.3	374.8	396.2	418.3	442.0	467.3	492.7
147.5°	315.1	322.0	332.2	345.2	360.8	379.5	398.7	418.3	439.0	460.7	482.0
150°	322.7	328.9	339.2	350.3	364.6	382.7	399.3	418.3	436.5	456.2	474.4
152.5°	330.2	336.5	345.5	355.4	369.0	384.6	400.6	416.4	433.3	451.2	467.5
155°	342.4	347.1	355.1	363.8	374.8	388.2	400.9	414.3	427.8	443.6	457.0
157.5°	352.8	356.6	363.6	371.0	379.5	390.3	401.7	411.7	422.9	435.1	446.0
160°	359.8	363.0	369.2	374.8	382.7	392.2	401.7	410.4	419.1	429.4	439.7
162.5°	365.5	368.0	373.0	378.0	384.6	392.8	401.1	407.9	415.3	423.7	432.1
165°	373.2	374.8	378.7	381.9	387.5	393.8	399.3	404.1	409.6	415.9	422.2
167.5°	379.5	380.3	383.3	385.6	389.0	393.6	398.1	400.3	403.9	408.5	413.7
170°	382.7	383.5	385.9	387.5	389.0	393.0	396.2	397.8	400.1	404.1	408.1
172.5°	385.9	386.0	387.8	388.7	389.7	393.0	395.5	395.9	397.0	399.7	403.0
175°	389.0	388.2	389.8	389.8	390.6	392.2	393.8	393.0	393.0	394.6	396.2
177.5°	390.6	390.0	390.6	390.6	390.6	391.3	392.5	391.3	390.6	391.3	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6	390.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	400.8	401.0	402.6	403.8	403.2	403.9	404.3
5°	437.9	444.6	448.1	450.7	450.8	451.1	452.5
7.5°	490.5	497.6	502.9	510.8	513.1	515.8	515.1
10°	528.9	539.5	548.5	553.3	558.5	566.0	559.9
12.5°	564.8	583.4	597.2	604.7	609.5	611.0	608.1
15°	624.0	648.3	661.4	661.1	677.6	684.8	673.6
17.5°	678.2	700.7	718.7	727.9	741.8	744.8	743.5
20°	711.5	736.0	750.0	765.9	773.1	779.5	780.6
22.5°	740.1	762.2	777.2	790.4	796.4	799.5	801.3
25°	769.6	787.0	796.0	800.6	802.2	801.8	799.5
27.5°	767.5	768.9	758.9	749.2	740.4	730.6	727.1
30°	747.6	732.1	704.4	688.7	665.7	647.4	654.8
32.5°	695.2	664.3	633.3	599.0	570.6	562.5	554.4
35°	593.3	539.1	507.3	470.4	455.7	440.9	430.7
37.5°	480.0	438.1	400.4	376.3	361.5	352.1	347.1
40°	415.0	377.2	346.2	326.6	315.4	304.9	303.4
42.5°	363.2	328.0	304.8	289.1	278.4	273.9	270.6
45°	297.5	273.0	257.3	246.2	239.0	236.2	232.5
47.5°	251.8	234.5	222.7	215.2	209.7	207.6	207.4
50°	226.2	211.8	203.2	197.3	193.1	192.3	189.3
52.5°	207.1	194.6	187.8	182.7	179.6	177.5	176.7
55°	179.7	171.4	165.3	162.4	160.0	158.0	158.0
57.5°	157.2	150.4	146.3	143.8	143.1	141.6	140.7
60°	143.4	137.5	134.4	132.1	130.6	130.9	129.2
62.5°	129.8	126.0	122.9	120.8	119.0	119.1	119.1
65°	110.5	107.6	105.4	104.6	103.5	102.3	102.6
67.5°	93.7	90.9	89.2	87.9	87.5	86.8	87.9
70°	81.6	79.5	78.3	77.2	76.8	76.9	77.9
72.5°	70.5	69.1	68.2	67.7	66.9	66.9	67.6
75°	55.4	54.3	53.6	53.0	52.8	52.8	52.8
77.5°	40.6	40.4	40.1	39.3	39.3	39.5	39.5
80°	32.1	31.5	31.4	31.0	30.4	30.1	31.0
82.5°	24.0	23.4	23.3	23.2	22.3	22.3	23.1
85°	12.9	12.4	12.5	12.4	12.4	12.2	12.2
87.5°	8.7	8.7	8.9	8.9	8.9	8.9	9.0
90°	20.6	21.4	22.9	22.1	22.9	23.7	22.9
92.5°	52.8	46.7	42.5	41.1	38.7	39.5	38.1
95°	193.0	151.1	122.6	107.6	100.4	94.9	91.7
97.5°	568.4	466.4	371.8	313.5	277.9	256.5	249.7
100°	868.2	775.7	663.5	583.6	525.9	495.0	495.8
102.5°	1004.2	950.3	879.2	817.0	771.3	745.5	727.3
105°	1107.1	1122.0	1101.5	1065.1	1035.1	1009.8	1005.8
107.5°	1094.1	1163.3	1191.5	1192.2	1182.0	1173.5	1166.2
110°	1051.7	1151.3	1206.7	1228.8	1235.2	1233.6	1232.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	996.0	1107.6	1178.8	1219.3	1238.9	1244.9	1245.2
115°	907.0	1023.2	1109.4	1168.7	1203.5	1219.3	1223.3
117.5°	831.7	936.0	1023.5	1085.4	1125.2	1148.0	1153.3
120°	790.0	884.9	964.7	1027.1	1071.4	1090.4	1095.2
122.5°	756.5	844.4	918.5	974.1	1013.9	1034.7	1040.8
125°	714.9	790.8	854.0	904.6	939.4	959.2	964.7
127.5°	678.3	746.8	804.3	849.4	879.2	897.0	902.1
130°	655.5	719.5	773.3	815.2	843.8	860.3	866.6
132.5°	634.0	693.6	744.9	784.3	812.7	827.4	831.9
135°	603.3	654.7	699.8	738.6	762.2	776.5	782.0
137.5°	573.8	618.1	657.1	689.7	713.8	725.7	729.4
140°	556.7	594.6	628.7	658.7	680.8	693.5	692.7
142.5°	540.3	573.1	602.7	628.4	647.9	659.3	658.5
145°	518.7	544.0	567.0	586.7	603.3	609.7	611.2
147.5°	502.7	523.2	539.5	554.4	565.7	571.7	572.4
150°	492.7	509.2	524.3	536.1	544.8	549.5	549.5
152.5°	483.2	497.9	510.3	519.7	527.8	530.6	530.6
155°	469.7	481.6	491.1	498.2	504.5	506.0	506.8
157.5°	456.5	465.7	473.2	479.3	484.1	485.4	485.2
160°	448.4	456.2	461.8	467.3	472.1	472.1	471.3
162.5°	439.5	446.8	451.7	455.3	459.4	459.4	458.6
165°	427.0	432.5	436.5	439.7	442.8	442.0	442.0
167.5°	417.3	420.5	423.3	424.8	427.0	426.2	426.2
170°	410.4	413.5	415.1	415.9	417.5	416.7	416.7
172.5°	404.7	407.3	408.2	408.4	410.0	408.5	407.9
175°	397.0	398.5	398.5	398.5	399.3	398.5	397.8
177.5°	392.5	393.2	393.2	392.5	393.2	391.9	391.9
180°	390.6	390.6	390.6	390.6	390.6	390.6	390.6

(END OF REPORT)