

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: P332102-930

Luminaire Tested: **S123DIW-S340D1030U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P332102-930  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5,  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S123DIW-S340D1030U930-4F0-1E-UDD-A  
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 1030 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4547.6 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

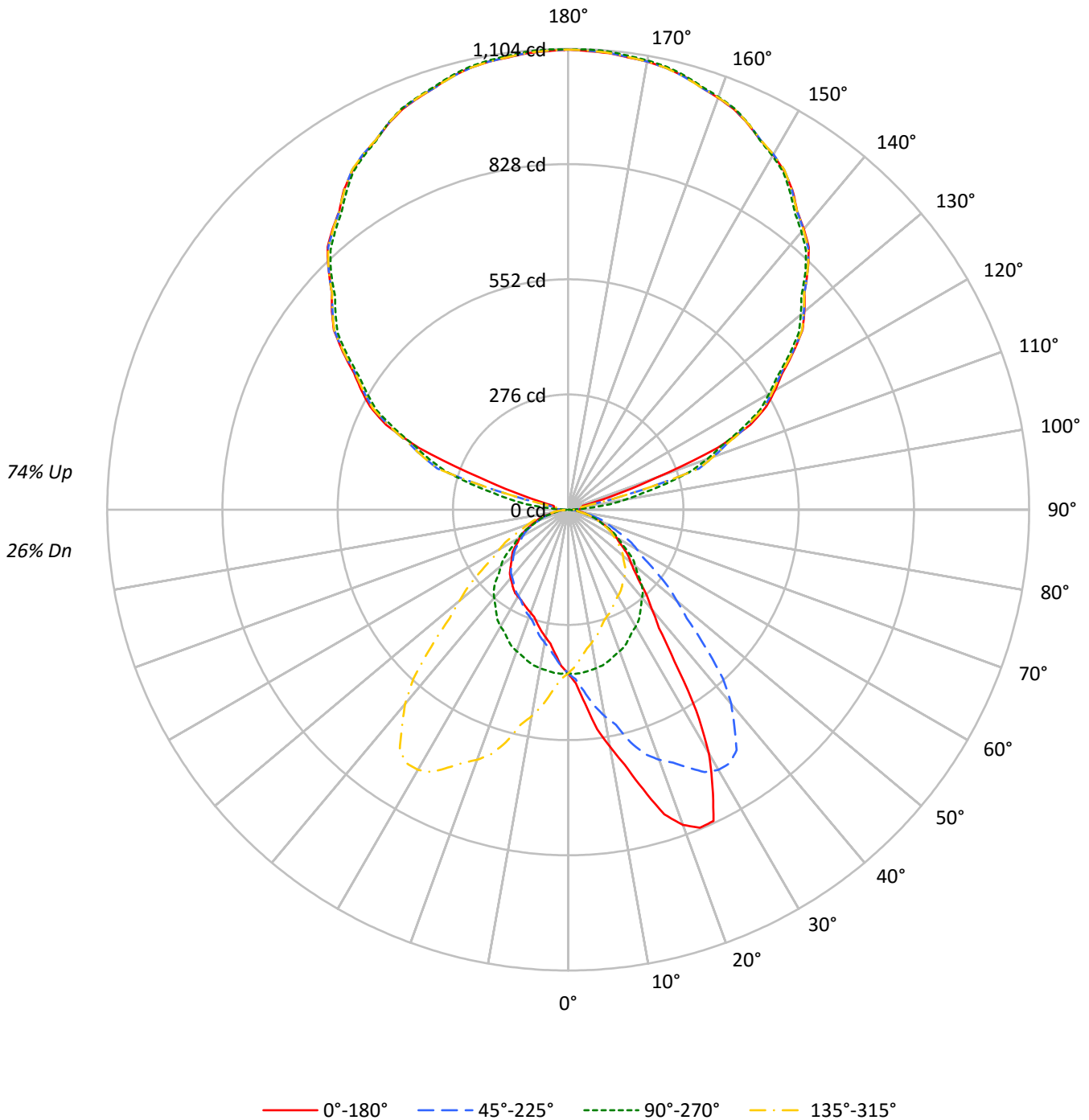
Input Watts (W): 38  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	30	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	31	29	26	21	20	18	14
5	64	53	46	40	57	48	41	36	38	33	29	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	17	16	14	11
7	55	43	35	30	49	39	32	28	31	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	8
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	12	10	9	7

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4219	4219	4219	4219
5°	5032	4238	3756	4238
10°	6299	4217	3393	4217
15°	7725	4182	3158	4182
20°	9203	4129	3007	4129
25°	9772	4065	2973	4065
30°	8376	4018	2988	4018
35°	5825	3951	3020	3951
40°	4388	3873	3011	3873
45°	3643	3755	2973	3755
50°	3264	3518	2946	3518
55°	3051	3262	2909	3262
60°	2863	2992	2878	2992
65°	2690	2728	2786	2728
70°	2521	2426	2653	2426
75°	2258	2125	2433	2125
80°	1977	1742	2095	1742
85°	1556	1272	1408	1272



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.6	0.8
10°-20°	123.8	2.7
20°-30°	207.8	4.6
30°-40°	235.3	5.2
40°-50°	211.0	4.6
50°-60°	170.3	3.7
60°-70°	118.7	2.6
70°-80°	62.4	1.4
80°-90°	18.3	0.4
90°-100°	40.1	0.9
100°-110°	191.0	4.2
110°-120°	458.8	10.1
120°-130°	584.2	12.8
130°-140°	624.2	13.7
140°-150°	583.7	12.8
150°-160°	470.8	10.4
160°-170°	303.9	6.7
170°-180°	104.7	2.3
0°-30°	370.3	8.1
0°-40°	605.6	13.3
0°-60°	986.9	21.7
0°-90°	1186.3	26.1
90°-120°	689.8	15.2
90°-150°	2481.9	54.6
90°-180°	3361.0	73.9
0°-180°	4547.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	392	392	392	392	392	
5°	466	392	348	392	466	48
15°	693	375	283	375	693	200
25°	823	342	250	342	823	361
35°	443	301	230	301	443	288
45°	239	247	195	247	239	189
55°	163	174	155	174	163	146
65°	106	107	109	107	106	105
75°	54	51	58	51	54	58
85°	13	10	11	10	13	16
90°	24	1	24	1	24	12
95°	31	50	31	50	31	26
105°	36	244	36	244	36	82
115°	482	458	482	458	482	445
125°	658	645	658	645	658	588
135°	812	803	812	803	812	626
145°	936	927	936	927	936	584
155°	1020	1021	1020	1021	1020	470
165°	1074	1077	1074	1077	1074	303
175°	1098	1102	1098	1102	1098	105
180°	1102	1102	1102	1102	1102	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	416.0	415.7	415.0	415.6	414.3	412.7	412.5	411.0	406.6	406.3	405.1
5°	465.7	464.2	464.0	463.8	461.1	457.5	450.7	450.1	441.0	436.5	431.0
7.5°	530.1	530.8	528.1	525.7	517.6	512.2	504.8	495.5	484.3	472.9	465.4
10°	576.3	582.5	574.8	569.4	564.5	555.2	544.4	530.8	517.4	501.7	489.7
12.5°	625.8	628.8	627.3	622.3	614.7	600.5	581.3	566.4	554.0	527.7	517.1
15°	693.2	704.8	697.4	680.4	680.7	667.2	642.2	614.7	600.0	577.0	545.7
17.5°	765.2	766.5	763.4	749.2	739.7	721.1	698.0	671.6	642.0	614.2	580.9
20°	803.4	802.3	795.7	788.2	771.9	757.5	732.2	702.8	664.8	637.4	601.1
22.5°	824.7	822.8	819.6	813.4	799.9	784.4	761.7	729.5	693.3	655.7	613.8
25°	822.8	825.2	825.7	823.9	819.2	809.9	792.1	766.4	730.3	681.8	638.2
27.5°	748.4	751.9	762.0	771.0	781.1	791.3	789.9	777.2	750.5	708.7	655.3
30°	673.9	666.3	685.1	708.8	725.0	753.5	769.4	770.4	755.4	719.5	667.4
32.5°	570.5	578.9	587.3	616.4	651.8	683.7	715.5	741.0	744.0	720.1	674.6
35°	443.3	453.8	469.0	484.1	522.1	554.8	610.7	659.3	698.0	703.1	675.2
37.5°	357.3	362.4	372.0	387.3	412.1	450.9	494.0	555.5	611.6	653.4	655.2
40°	312.3	313.8	324.6	336.1	356.3	388.2	427.1	481.5	548.7	607.1	631.4
42.5°	278.5	281.8	286.5	297.6	313.6	337.6	373.8	418.7	480.4	547.5	595.0
45°	239.3	243.1	246.0	253.4	264.8	281.0	306.1	347.2	394.1	463.4	527.4
47.5°	213.4	213.7	215.8	221.4	229.2	241.3	259.2	285.5	328.6	384.8	450.5
50°	194.9	197.9	198.7	203.0	209.1	218.0	232.8	255.3	290.6	340.0	400.4
52.5°	181.8	182.7	184.8	188.0	193.3	200.2	213.1	230.6	258.4	300.5	356.0
55°	162.6	162.6	164.7	167.1	170.2	176.4	185.0	197.9	219.0	251.7	297.7
57.5°	144.8	145.8	147.2	148.0	150.6	154.7	161.8	171.7	187.4	212.5	249.1
60°	133.0	134.7	134.4	136.0	138.3	141.5	147.6	155.6	169.6	189.7	220.5
62.5°	122.6	122.5	122.5	124.3	126.5	129.6	133.6	140.5	152.5	170.3	196.5
65°	105.6	105.3	106.6	107.7	108.4	110.7	113.7	119.8	127.8	141.1	161.4
67.5°	90.5	89.4	90.1	90.5	91.8	93.6	96.4	100.2	106.5	117.2	132.5
70°	80.1	79.2	79.0	79.4	80.6	81.9	84.0	87.6	93.4	102.0	113.2
72.5°	69.5	68.9	68.8	69.7	70.2	71.1	72.6	75.8	80.6	87.0	97.4
75°	54.3	54.3	54.3	54.5	55.1	55.8	57.0	58.7	62.3	66.9	73.9
77.5°	40.7	40.7	40.4	40.4	41.3	41.6	41.8	43.5	45.5	48.5	53.6
80°	31.9	31.0	31.3	31.9	32.3	32.4	33.0	33.4	35.1	36.9	40.4
82.5°	23.7	22.9	23.0	23.9	24.0	24.1	24.7	25.2	25.8	27.4	29.4
85°	12.6	12.6	12.7	12.7	12.9	12.7	13.3	13.5	13.5	14.4	15.6
87.5°	9.5	9.1	9.2	9.2	9.0	9.0	9.0	9.0	9.0	9.1	8.8
90°	24.5	24.2	23.8	23.5	23.1	22.6	21.9	21.1	20.4	19.6	17.3
92.5°	27.1	27.0	26.7	26.5	26.3	25.6	24.5	23.3	22.1	21.0	19.2
95°	31.1	31.1	31.1	31.1	31.1	30.5	29.2	28.0	26.7	25.4	23.4
97.5°	33.8	33.6	33.3	33.2	33.0	32.2	30.7	29.3	27.8	26.3	23.9
100°	34.4	34.2	34.0	33.8	33.7	32.9	31.4	29.9	28.5	27.0	25.4
102.5°	35.1	34.7	34.4	34.1	33.8	35.8	40.4	44.8	49.4	53.9	58.9
105°	36.0	35.6	35.3	35.0	34.6	50.5	82.7	115.0	147.2	179.4	195.8
107.5°	113.2	137.5	161.8	186.0	210.3	234.2	257.9	281.4	305.1	328.7	326.1
110°	225.2	251.2	277.2	303.3	329.3	345.3	351.3	357.3	363.3	369.3	367.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	386.4	391.8	397.4	402.8	408.3	411.0	410.9	410.8	410.7	410.6	408.6
115°	481.5	480.8	480.0	479.3	478.6	477.4	475.5	473.7	471.9	470.0	468.4
117.5°	534.9	534.8	534.6	534.4	534.3	533.5	532.1	530.6	529.1	527.7	526.8
120°	571.6	571.6	571.6	571.6	571.6	570.9	569.4	567.9	566.5	565.0	564.5
122.5°	607.6	607.5	607.3	607.2	607.1	606.4	605.4	604.4	603.4	602.3	601.7
125°	658.4	658.0	657.6	657.3	657.0	656.6	656.2	655.8	655.5	655.1	654.4
127.5°	707.2	707.6	707.9	708.3	708.7	708.6	707.9	707.4	706.8	706.2	705.3
130°	738.7	739.0	739.4	739.7	740.1	739.9	739.2	738.5	737.8	737.0	736.3
132.5°	767.4	768.0	768.5	769.0	769.5	769.4	768.7	767.9	767.2	766.5	765.9
135°	811.5	812.0	812.6	813.2	813.7	813.7	813.2	812.6	812.0	811.5	810.8
137.5°	853.0	853.3	853.7	854.0	854.4	854.2	853.3	852.4	851.5	850.7	850.3
140°	877.8	878.2	878.6	879.0	879.3	879.1	878.4	877.7	876.9	876.2	875.6
142.5°	900.7	901.3	901.8	902.3	902.8	902.8	902.2	901.6	901.1	900.4	899.9
145°	936.0	936.0	936.0	936.0	936.0	935.8	935.5	935.1	934.7	934.3	934.0
147.5°	962.2	963.0	963.8	964.7	965.6	965.8	965.4	965.1	964.7	964.3	963.9
150°	981.9	982.4	982.9	983.5	984.1	984.1	983.7	983.4	983.0	982.7	982.3
152.5°	997.6	998.4	999.2	1000.0	1000.9	1001.0	1000.4	999.7	999.1	998.4	998.2
155°	1019.5	1020.6	1021.7	1022.8	1023.9	1024.0	1023.0	1022.1	1021.2	1020.3	1020.2
157.5°	1038.0	1039.4	1040.9	1042.3	1043.7	1043.8	1042.8	1041.7	1040.6	1039.5	1039.7
160°	1049.8	1051.1	1052.4	1053.6	1054.9	1055.0	1053.9	1052.8	1051.7	1050.7	1050.8
162.5°	1060.9	1062.1	1063.2	1064.4	1065.4	1065.4	1064.2	1062.9	1061.7	1060.5	1060.6
165°	1074.4	1075.6	1076.9	1078.2	1079.5	1079.4	1077.9	1076.4	1075.1	1073.6	1073.7
167.5°	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9	1088.4	1087.0	1085.5	1084.0	1084.0
170°	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8	1094.3	1092.8	1091.4	1090.0	1090.0
172.5°	1093.2	1094.8	1096.4	1098.0	1099.6	1099.7	1098.2	1096.8	1095.4	1093.9	1093.7
175°	1098.1	1099.6	1101.1	1102.5	1104.0	1104.1	1102.8	1101.5	1100.2	1098.9	1098.8
177.5°	1099.6	1101.1	1102.5	1104.0	1105.5	1105.5	1104.4	1103.3	1102.1	1100.9	1100.7
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	404.1	403.0	401.8	399.7	397.8	395.3	394.4	393.5	390.8	388.4	386.5
5°	428.8	424.3	417.7	411.6	406.7	400.0	396.2	392.2	386.5	381.4	377.2
7.5°	454.7	445.7	435.4	424.3	413.8	403.8	395.7	388.5	380.5	373.0	367.0
10°	475.2	462.3	447.8	432.3	419.0	406.1	395.3	385.8	375.5	366.6	359.1
12.5°	498.6	479.5	459.6	440.7	424.9	407.0	393.9	381.8	370.1	359.5	351.1
15°	526.3	502.0	478.4	452.4	428.5	406.1	390.5	375.3	361.8	350.8	340.1
17.5°	551.5	524.0	492.9	461.3	432.4	405.9	384.1	366.9	350.0	336.6	326.0
20°	565.8	534.5	499.4	466.5	434.6	405.0	381.0	360.5	342.3	328.0	316.1
22.5°	578.1	541.4	505.1	469.9	434.4	402.5	375.4	354.2	334.5	320.6	307.9
25°	590.9	547.0	510.5	469.4	429.7	396.6	366.2	342.3	322.5	306.1	293.1
27.5°	601.9	546.7	503.4	459.0	422.1	389.0	356.5	330.8	309.9	292.1	278.8
30°	609.1	547.4	495.9	452.1	414.8	380.7	349.1	323.3	301.3	283.2	270.7
32.5°	613.7	546.9	489.1	442.3	403.2	373.0	341.0	314.3	291.6	273.9	261.9
35°	616.4	543.6	477.3	422.2	384.7	355.1	328.4	300.7	277.0	260.4	246.7
37.5°	611.0	536.5	463.7	402.8	361.7	332.7	310.1	286.6	263.8	245.6	233.8
40°	602.7	532.0	453.0	389.1	345.8	318.0	298.8	275.6	253.2	235.9	224.9
42.5°	586.7	522.8	441.3	374.0	329.5	301.6	283.9	264.5	243.3	227.1	216.1
45°	547.8	502.6	423.7	351.2	305.2	276.4	260.8	246.7	227.6	211.8	202.3
47.5°	493.7	472.2	398.4	327.2	279.9	252.2	235.9	224.7	210.7	197.9	188.8
50°	456.2	447.3	381.2	310.7	263.1	235.9	220.3	210.1	200.0	187.3	179.0
52.5°	412.9	418.4	361.2	293.8	245.9	219.2	204.6	196.4	187.3	176.8	169.5
55°	352.0	371.9	326.5	265.1	220.3	194.9	181.0	173.8	168.4	160.7	154.4
57.5°	294.9	320.2	289.0	235.7	195.2	173.3	160.0	152.1	148.7	144.6	139.7
60°	261.0	286.0	262.3	216.0	178.4	157.4	145.7	139.0	135.6	132.7	128.6
62.5°	230.7	256.1	236.2	195.9	161.8	142.4	132.2	125.6	123.0	121.6	118.0
65°	189.1	211.0	197.7	164.7	138.1	121.0	111.7	107.1	104.7	104.1	101.8
67.5°	153.9	170.6	160.9	136.6	115.7	100.9	93.0	89.1	87.2	87.0	85.3
70°	130.9	146.4	139.0	117.0	99.0	87.4	80.6	77.1	76.0	75.8	74.8
72.5°	112.9	123.8	117.9	99.5	85.6	75.1	70.0	66.4	65.2	65.5	64.8
75°	83.6	91.7	88.3	75.6	64.4	57.6	53.4	51.1	50.0	50.5	49.7
77.5°	60.2	65.3	62.2	53.4	46.5	41.6	38.5	37.1	36.0	36.0	35.7
80°	45.4	48.4	46.7	41.4	35.7	31.6	29.0	28.1	27.6	27.3	27.1
82.5°	32.4	34.9	32.9	29.3	25.4	22.8	21.4	20.2	19.8	19.9	19.7
85°	16.3	17.3	16.6	14.3	12.7	11.6	10.8	10.3	9.9	10.0	9.7
87.5°	8.6	8.3	7.3	6.4	5.6	4.8	4.5	3.8	3.8	4.2	4.5
90°	14.9	12.6	10.2	8.1	6.3	4.5	2.6	0.8	2.6	4.5	6.3
92.5°	17.4	15.7	13.9	13.2	13.7	14.2	14.8	15.2	14.8	14.2	13.7
95°	21.4	19.4	17.4	20.1	27.6	35.1	42.5	50.0	42.5	35.1	27.6
97.5°	52.6	65.7	78.8	87.0	90.3	93.7	97.0	100.4	97.0	93.7	90.3
100°	83.8	112.2	140.6	153.0	149.3	145.7	142.0	138.4	142.0	145.7	149.3
102.5°	115.9	146.9	177.9	192.1	189.5	186.9	184.3	181.6	184.3	186.9	189.5
105°	212.1	228.4	244.8	252.0	250.1	248.0	246.1	244.0	246.1	248.0	250.1
107.5°	323.5	321.0	318.4	316.3	314.7	313.1	311.4	309.9	311.4	313.1	314.7
110°	365.3	363.3	361.3	359.5	358.2	356.7	355.2	353.8	355.2	356.7	358.2





TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	406.6	404.6	402.6	401.0	399.7	398.3	397.0	395.7	397.0	398.3	399.7
115°	466.8	465.1	463.5	462.1	461.1	459.9	458.9	457.8	458.9	459.9	461.1
117.5°	526.0	525.2	524.3	523.3	521.9	520.6	519.2	517.9	519.2	520.6	521.9
120°	563.9	563.4	562.9	561.7	560.1	558.5	556.8	555.2	556.8	558.5	560.1
122.5°	601.0	600.3	599.6	598.6	597.2	595.9	594.5	593.2	594.5	595.9	597.2
125°	653.6	652.9	652.2	651.1	649.6	648.2	646.8	645.3	646.8	648.2	649.6
127.5°	704.5	703.6	702.7	701.6	700.1	698.6	697.2	695.7	697.2	698.6	700.1
130°	735.6	734.8	734.1	733.0	731.6	730.1	728.6	727.2	728.6	730.1	731.6
132.5°	765.3	764.8	764.2	763.1	761.7	760.2	758.8	757.3	758.8	760.2	761.7
135°	810.1	809.3	808.6	807.7	806.6	805.5	804.5	803.3	804.5	805.5	806.6
137.5°	849.9	849.5	849.1	848.2	846.8	845.4	844.0	842.6	844.0	845.4	846.8
140°	875.1	874.6	874.0	873.2	872.1	871.1	869.9	868.9	869.9	871.1	872.1
142.5°	899.4	898.8	898.3	897.5	896.3	895.3	894.1	893.1	894.1	895.3	896.3
145°	933.6	933.3	932.9	932.1	930.8	929.5	928.2	927.0	928.2	929.5	930.8
147.5°	963.6	963.2	962.9	962.3	961.4	960.6	959.8	959.0	959.8	960.6	961.4
150°	981.9	981.5	981.2	980.7	980.2	979.7	979.1	978.6	979.1	979.7	980.2
152.5°	997.9	997.8	997.5	997.3	997.0	996.8	996.5	996.3	996.5	996.8	997.0
155°	1019.9	1019.8	1019.6	1019.7	1020.1	1020.4	1020.8	1021.2	1020.8	1020.4	1020.1
157.5°	1039.8	1040.1	1040.2	1040.3	1040.4	1040.4	1040.5	1040.5	1040.5	1040.4	1040.4
160°	1051.0	1051.2	1051.3	1051.6	1051.7	1051.9	1052.1	1052.3	1052.1	1051.9	1051.7
162.5°	1060.9	1061.0	1061.2	1061.5	1062.0	1062.5	1062.9	1063.4	1062.9	1062.5	1062.0
165°	1073.9	1074.1	1074.3	1074.6	1075.2	1075.8	1076.3	1076.8	1076.3	1075.8	1075.2
167.5°	1084.0	1084.0	1084.0	1084.4	1085.2	1085.9	1086.6	1087.3	1086.6	1085.9	1085.2
170°	1090.0	1090.0	1090.0	1090.3	1091.0	1091.8	1092.5	1093.2	1092.5	1091.8	1091.0
172.5°	1093.6	1093.4	1093.3	1093.6	1094.5	1095.4	1096.3	1097.1	1096.3	1095.4	1094.5
175°	1098.6	1098.4	1098.2	1098.6	1099.5	1100.4	1101.3	1102.2	1101.3	1100.4	1099.5
177.5°	1100.7	1100.5	1100.3	1100.7	1101.4	1102.1	1102.8	1103.5	1102.8	1102.1	1101.4
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	385.5	384.4	382.9	380.7	378.8	375.9	375.9	376.3	376.3	376.3	375.9
5°	373.8	371.0	367.5	363.5	359.4	355.1	354.4	352.9	351.8	351.0	350.1
7.5°	361.4	356.4	351.4	345.8	340.7	336.6	333.6	331.2	329.6	327.9	326.7
10°	353.1	346.8	341.0	335.1	328.6	323.4	320.2	318.0	316.3	314.7	314.0
12.5°	343.2	336.1	329.5	323.9	316.9	311.6	308.5	307.4	305.5	302.2	300.6
15°	328.8	322.1	314.4	305.8	302.4	296.0	292.3	290.6	289.4	287.0	286.3
17.5°	316.4	307.8	299.0	292.6	286.3	281.0	279.0	276.9	275.4	273.4	272.7
20°	306.6	298.8	290.8	284.0	277.3	271.6	269.9	268.4	266.8	266.0	265.1
22.5°	296.5	288.8	282.1	275.7	268.6	264.9	263.1	261.4	260.3	259.7	258.9
25°	282.4	275.6	268.2	262.5	256.8	254.3	253.2	252.3	251.4	250.5	250.3
27.5°	269.9	262.4	256.4	251.0	247.0	244.9	243.8	243.4	243.5	243.9	244.1
30°	260.4	253.6	248.7	244.1	240.3	238.4	238.1	238.1	239.0	239.1	239.5
32.5°	251.8	246.1	241.2	236.8	233.9	232.6	233.3	233.3	233.9	234.4	235.1
35°	239.1	234.2	230.4	226.6	224.1	224.7	225.1	225.4	226.4	227.6	228.3
37.5°	227.1	222.8	218.8	215.9	214.7	215.7	216.7	217.4	218.6	219.5	220.2
40°	218.4	215.2	211.4	208.7	209.1	209.7	210.4	211.4	212.4	213.0	213.7
42.5°	210.3	207.0	204.1	201.9	202.4	203.2	203.6	204.1	205.2	206.3	206.7
45°	198.1	195.4	192.8	191.4	191.8	192.2	192.6	193.1	194.1	194.9	195.1
47.5°	184.3	182.5	180.7	179.4	180.0	179.9	180.3	181.6	181.8	182.3	183.4
50°	175.5	173.8	171.7	171.3	171.3	171.3	171.5	173.0	173.0	173.8	174.6
52.5°	165.8	164.7	163.4	162.7	162.3	162.3	163.1	163.9	164.2	165.3	166.1
55°	151.4	150.3	149.1	148.5	148.1	148.5	150.0	150.4	151.4	152.0	152.5
57.5°	136.4	135.5	134.6	134.3	134.2	134.7	135.5	136.6	136.9	138.7	139.5
60°	126.5	125.1	124.4	124.4	124.0	125.7	125.4	127.3	127.7	128.8	130.1
62.5°	116.3	114.5	114.2	114.2	114.8	115.3	115.8	116.6	117.6	119.0	120.1
65°	99.9	99.0	100.3	100.1	99.7	100.9	100.9	101.8	103.0	104.3	106.4
67.5°	84.4	83.9	84.0	84.0	84.5	85.2	85.8	86.6	88.0	89.4	90.7
70°	73.9	74.4	73.5	74.3	74.8	75.0	75.4	76.6	78.0	79.0	80.6
72.5°	63.7	63.7	63.8	64.1	64.7	65.0	65.4	66.7	68.3	69.1	70.4
75°	49.0	48.8	49.4	49.4	50.3	50.7	51.1	51.7	53.2	54.3	55.3
77.5°	35.8	36.0	35.9	36.5	36.3	36.4	37.5	38.1	38.2	40.5	41.0
80°	27.0	27.3	27.6	27.7	27.9	27.6	28.9	29.4	29.4	30.7	31.7
82.5°	19.4	19.6	20.1	20.3	20.3	20.7	20.8	21.2	21.7	22.3	23.5
85°	9.7	10.3	10.4	10.3	10.4	10.0	10.6	10.8	11.0	11.0	11.0
87.5°	4.6	5.2	5.5	6.2	6.5	7.1	7.3	7.1	7.3	7.8	7.3
90°	8.1	10.2	12.6	14.9	17.3	19.6	20.4	21.1	21.9	22.6	23.1
92.5°	13.2	13.9	15.7	17.4	19.2	21.0	22.1	23.3	24.5	25.6	26.3
95°	20.1	17.4	19.4	21.4	23.4	25.4	26.7	28.0	29.2	30.5	31.1
97.5°	87.0	78.8	65.7	52.6	39.5	26.3	27.8	29.3	30.7	32.2	33.0
100°	153.0	140.6	112.2	83.8	55.4	27.0	28.5	29.9	31.4	32.9	33.7
102.5°	192.1	177.9	146.9	115.9	84.9	53.9	49.4	44.8	40.4	35.8	33.8
105°	252.0	244.8	228.4	212.1	195.8	179.4	147.2	115.0	82.7	50.5	34.6
107.5°	316.3	318.4	321.0	323.5	326.1	328.7	305.1	281.4	257.9	234.2	210.3
110°	359.5	361.3	363.3	365.3	367.3	369.3	363.3	357.3	351.3	345.3	329.3



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	401.0	402.6	404.6	406.6	408.6	410.6	410.7	410.8	410.9	411.0	408.3
115°	462.1	463.5	465.1	466.8	468.4	470.0	471.9	473.7	475.5	477.4	478.6
117.5°	523.3	524.3	525.2	526.0	526.8	527.7	529.1	530.6	532.1	533.5	534.3
120°	561.7	562.9	563.4	563.9	564.5	565.0	566.5	567.9	569.4	570.9	571.6
122.5°	598.6	599.6	600.3	601.0	601.7	602.3	603.4	604.4	605.4	606.4	607.1
125°	651.1	652.2	652.9	653.6	654.4	655.1	655.5	655.8	656.2	656.6	657.0
127.5°	701.6	702.7	703.6	704.5	705.3	706.2	706.8	707.4	707.9	708.6	708.7
130°	733.0	734.1	734.8	735.6	736.3	737.0	737.8	738.5	739.2	739.9	740.1
132.5°	763.1	764.2	764.8	765.3	765.9	766.5	767.2	767.9	768.7	769.4	769.5
135°	807.7	808.6	809.3	810.1	810.8	811.5	812.0	812.6	813.2	813.7	813.7
137.5°	848.2	849.1	849.5	849.9	850.3	850.7	851.5	852.4	853.3	854.2	854.4
140°	873.2	874.0	874.6	875.1	875.6	876.2	876.9	877.7	878.4	879.1	879.3
142.5°	897.5	898.3	898.8	899.4	899.9	900.4	901.1	901.6	902.2	902.8	902.8
145°	932.1	932.9	933.3	933.6	934.0	934.3	934.7	935.1	935.5	935.8	936.0
147.5°	962.3	962.9	963.2	963.6	963.9	964.3	964.7	965.1	965.4	965.8	965.6
150°	980.7	981.2	981.5	981.9	982.3	982.7	983.0	983.4	983.7	984.1	984.1
152.5°	997.3	997.5	997.8	997.9	998.2	998.4	999.1	999.7	1000.4	1001.0	1000.9
155°	1019.7	1019.6	1019.8	1019.9	1020.2	1020.3	1021.2	1022.1	1023.0	1024.0	1023.9
157.5°	1040.3	1040.2	1040.1	1039.8	1039.7	1039.5	1040.6	1041.7	1042.8	1043.8	1043.7
160°	1051.6	1051.3	1051.2	1051.0	1050.8	1050.7	1051.7	1052.8	1053.9	1055.0	1054.9
162.5°	1061.5	1061.2	1061.0	1060.9	1060.6	1060.5	1061.7	1062.9	1064.2	1065.4	1065.4
165°	1074.6	1074.3	1074.1	1073.9	1073.7	1073.6	1075.1	1076.4	1077.9	1079.4	1079.5
167.5°	1084.4	1084.0	1084.0	1084.0	1084.0	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9
170°	1090.3	1090.0	1090.0	1090.0	1090.0	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8
172.5°	1093.6	1093.3	1093.4	1093.6	1093.7	1093.9	1095.4	1096.8	1098.2	1099.7	1099.6
175°	1098.6	1098.2	1098.4	1098.6	1098.8	1098.9	1100.2	1101.5	1102.8	1104.1	1104.0
177.5°	1100.7	1100.3	1100.5	1100.7	1100.7	1100.9	1102.1	1103.3	1104.4	1105.5	1105.5
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	374.9	374.7	375.8	375.0	375.8	374.7	374.9	375.9	376.3	376.3	376.3
5°	348.9	349.5	347.6	347.6	347.6	349.5	348.9	350.1	351.0	351.8	352.9
7.5°	325.8	325.0	325.1	324.0	325.1	325.0	325.8	326.7	327.9	329.6	331.2
10°	311.7	310.5	310.1	310.4	310.1	310.5	311.7	314.0	314.7	316.3	318.0
12.5°	299.9	299.8	297.3	297.3	297.3	299.8	299.9	300.6	302.2	305.5	307.4
15°	286.3	282.7	282.3	283.4	282.3	282.7	286.3	286.3	287.0	289.4	290.6
17.5°	272.5	270.5	270.7	270.1	270.7	270.5	272.5	272.7	273.4	275.4	276.9
20°	265.1	264.0	263.8	262.5	263.8	264.0	265.1	265.1	266.0	266.8	268.4
22.5°	258.4	258.1	258.2	256.7	258.2	258.1	258.4	258.9	259.7	260.3	261.4
25°	250.1	251.1	250.3	250.3	250.3	251.1	250.1	250.3	250.5	251.4	252.3
27.5°	244.5	244.5	244.1	244.1	244.1	244.5	244.5	244.1	243.9	243.5	243.4
30°	240.3	240.1	240.4	240.4	240.4	240.1	240.3	239.5	239.1	239.0	238.1
32.5°	236.0	236.3	236.4	236.5	236.4	236.3	236.0	235.1	234.4	233.9	233.3
35°	229.4	229.7	230.2	229.8	230.2	229.7	229.4	228.3	227.6	226.4	225.4
37.5°	220.5	221.4	221.3	221.5	221.3	221.4	220.5	220.2	219.5	218.6	217.4
40°	213.9	214.4	214.3	214.3	214.3	214.4	213.9	213.7	213.0	212.4	211.4
42.5°	207.0	207.4	206.9	206.7	206.9	207.4	207.0	206.7	206.3	205.2	204.1
45°	195.8	195.4	196.0	195.3	196.0	195.4	195.8	195.1	194.9	194.1	193.1
47.5°	183.3	183.7	183.8	184.4	183.8	183.7	183.3	183.4	182.3	181.8	181.6
50°	175.0	176.1	176.1	175.9	176.1	176.1	175.0	174.6	173.8	173.0	173.0
52.5°	166.7	167.2	168.0	168.0	168.0	167.2	166.7	166.1	165.3	164.2	163.9
55°	154.0	154.4	154.8	155.0	154.8	154.4	154.0	152.5	152.0	151.4	150.4
57.5°	140.9	140.7	141.6	141.9	141.6	140.7	140.9	139.5	138.7	136.9	136.6
60°	131.6	131.6	133.1	133.7	133.1	131.6	131.6	130.1	128.8	127.7	127.3
62.5°	121.7	122.4	123.8	123.1	123.8	122.4	121.7	120.1	119.0	117.6	116.6
65°	107.3	108.8	108.7	109.4	108.7	108.8	107.3	106.4	104.3	103.0	101.8
67.5°	92.2	93.2	94.6	94.7	94.6	93.2	92.2	90.7	89.4	88.0	86.6
70°	82.0	83.0	83.7	84.3	83.7	83.0	82.0	80.6	79.0	78.0	76.6
72.5°	72.2	72.6	74.5	73.7	74.5	72.6	72.2	70.4	69.1	68.3	66.7
75°	56.6	58.0	59.1	58.5	59.1	58.0	56.6	55.3	54.3	53.2	51.7
77.5°	41.8	43.2	43.7	43.2	43.7	43.2	41.8	41.0	40.5	38.2	38.1
80°	33.0	32.9	34.0	33.8	34.0	32.9	33.0	31.7	30.7	29.4	29.4
82.5°	24.2	24.1	24.5	24.7	24.5	24.1	24.2	23.5	22.3	21.7	21.2
85°	11.7	12.3	11.6	11.4	11.6	12.3	11.7	11.0	11.0	11.0	10.8
87.5°	7.4	7.5	7.4	7.3	7.4	7.5	7.4	7.3	7.8	7.3	7.1
90°	23.5	23.8	24.2	24.5	24.2	23.8	23.5	23.1	22.6	21.9	21.1
92.5°	26.5	26.7	27.0	27.1	27.0	26.7	26.5	26.3	25.6	24.5	23.3
95°	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	30.5	29.2	28.0
97.5°	33.2	33.3	33.6	33.8	33.6	33.3	33.2	33.0	32.2	30.7	29.3
100°	33.8	34.0	34.2	34.4	34.2	34.0	33.8	33.7	32.9	31.4	29.9
102.5°	34.1	34.4	34.7	35.1	34.7	34.4	34.1	33.8	35.8	40.4	44.8
105°	35.0	35.3	35.6	36.0	35.6	35.3	35.0	34.6	50.5	82.7	115.0
107.5°	186.0	161.8	137.5	113.2	137.5	161.8	186.0	210.3	234.2	257.9	281.4
110°	303.3	277.2	251.2	225.2	251.2	277.2	303.3	329.3	345.3	351.3	357.3



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	402.8	397.4	391.8	386.4	391.8	397.4	402.8	408.3	411.0	410.9	410.8
115°	479.3	480.0	480.8	481.5	480.8	480.0	479.3	478.6	477.4	475.5	473.7
117.5°	534.4	534.6	534.8	534.9	534.8	534.6	534.4	534.3	533.5	532.1	530.6
120°	571.6	571.6	571.6	571.6	571.6	571.6	571.6	571.6	570.9	569.4	567.9
122.5°	607.2	607.3	607.5	607.6	607.5	607.3	607.2	607.1	606.4	605.4	604.4
125°	657.3	657.6	658.0	658.4	658.0	657.6	657.3	657.0	656.6	656.2	655.8
127.5°	708.3	707.9	707.6	707.2	707.6	707.9	708.3	708.7	708.6	707.9	707.4
130°	739.7	739.4	739.0	738.7	739.0	739.4	739.7	740.1	739.9	739.2	738.5
132.5°	769.0	768.5	768.0	767.4	768.0	768.5	769.0	769.5	769.4	768.7	767.9
135°	813.2	812.6	812.0	811.5	812.0	812.6	813.2	813.7	813.7	813.2	812.6
137.5°	854.0	853.7	853.3	853.0	853.3	853.7	854.0	854.4	854.2	853.3	852.4
140°	879.0	878.6	878.2	877.8	878.2	878.6	879.0	879.3	879.1	878.4	877.7
142.5°	902.3	901.8	901.3	900.7	901.3	901.8	902.3	902.8	902.8	902.2	901.6
145°	936.0	936.0	936.0	936.0	936.0	936.0	936.0	936.0	935.8	935.5	935.1
147.5°	964.7	963.8	963.0	962.2	963.0	963.8	964.7	965.6	965.8	965.4	965.1
150°	983.5	982.9	982.4	981.9	982.4	982.9	983.5	984.1	984.1	983.7	983.4
152.5°	1000.0	999.2	998.4	997.6	998.4	999.2	1000.0	1000.9	1001.0	1000.4	999.7
155°	1022.8	1021.7	1020.6	1019.5	1020.6	1021.7	1022.8	1023.9	1024.0	1023.0	1022.1
157.5°	1042.3	1040.9	1039.4	1038.0	1039.4	1040.9	1042.3	1043.7	1043.8	1042.8	1041.7
160°	1053.6	1052.4	1051.1	1049.8	1051.1	1052.4	1053.6	1054.9	1055.0	1053.9	1052.8
162.5°	1064.4	1063.2	1062.1	1060.9	1062.1	1063.2	1064.4	1065.4	1065.4	1064.2	1062.9
165°	1078.2	1076.9	1075.6	1074.4	1075.6	1076.9	1078.2	1079.5	1079.4	1077.9	1076.4
167.5°	1088.4	1087.0	1085.5	1084.0	1085.5	1087.0	1088.4	1089.9	1089.9	1088.4	1087.0
170°	1094.3	1092.8	1091.4	1090.0	1091.4	1092.8	1094.3	1095.8	1095.8	1094.3	1092.8
172.5°	1098.0	1096.4	1094.8	1093.2	1094.8	1096.4	1098.0	1099.6	1099.7	1098.2	1096.8
175°	1102.5	1101.1	1099.6	1098.1	1099.6	1101.1	1102.5	1104.0	1104.1	1102.8	1101.5
177.5°	1104.0	1102.5	1101.1	1099.6	1101.1	1102.5	1104.0	1105.5	1105.5	1104.4	1103.3
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	375.9	375.9	378.8	380.7	382.9	384.4	385.5	386.5	388.4	390.8	393.5
5°	354.4	355.1	359.4	363.5	367.5	371.0	373.8	377.2	381.4	386.5	392.2
7.5°	333.6	336.6	340.7	345.8	351.4	356.4	361.4	367.0	373.0	380.5	388.5
10°	320.2	323.4	328.6	335.1	341.0	346.8	353.1	359.1	366.6	375.5	385.8
12.5°	308.5	311.6	316.9	323.9	329.5	336.1	343.2	351.1	359.5	370.1	381.8
15°	292.3	296.0	302.4	305.8	314.4	322.1	328.8	340.1	350.8	361.8	375.3
17.5°	279.0	281.0	286.3	292.6	299.0	307.8	316.4	326.0	336.6	350.0	366.9
20°	269.9	271.6	277.3	284.0	290.8	298.8	306.6	316.1	328.0	342.3	360.5
22.5°	263.1	264.9	268.6	275.7	282.1	288.8	296.5	307.9	320.6	334.5	354.2
25°	253.2	254.3	256.8	262.5	268.2	275.6	282.4	293.1	306.1	322.5	342.3
27.5°	243.8	244.9	247.0	251.0	256.4	262.4	269.9	278.8	292.1	309.9	330.8
30°	238.1	238.4	240.3	244.1	248.7	253.6	260.4	270.7	283.2	301.3	323.3
32.5°	233.3	232.6	233.9	236.8	241.2	246.1	251.8	261.9	273.9	291.6	314.3
35°	225.1	224.7	224.1	226.6	230.4	234.2	239.1	246.7	260.4	277.0	300.7
37.5°	216.7	215.7	214.7	215.9	218.8	222.8	227.1	233.8	245.6	263.8	286.6
40°	210.4	209.7	209.1	208.7	211.4	215.2	218.4	224.9	235.9	253.2	275.6
42.5°	203.6	203.2	202.4	201.9	204.1	207.0	210.3	216.1	227.1	243.3	264.5
45°	192.6	192.2	191.8	191.4	192.8	195.4	198.1	202.3	211.8	227.6	246.7
47.5°	180.3	179.9	180.0	179.4	180.7	182.5	184.3	188.8	197.9	210.7	224.7
50°	171.5	171.3	171.3	171.3	171.7	173.8	175.5	179.0	187.3	200.0	210.1
52.5°	163.1	162.3	162.3	162.7	163.4	164.7	165.8	169.5	176.8	187.3	196.4
55°	150.0	148.5	148.1	148.5	149.1	150.3	151.4	154.4	160.7	168.4	173.8
57.5°	135.5	134.7	134.2	134.3	134.6	135.5	136.4	139.7	144.6	148.7	152.1
60°	125.4	125.7	124.0	124.4	124.4	125.1	126.5	128.6	132.7	135.6	139.0
62.5°	115.8	115.3	114.8	114.2	114.2	114.5	116.3	118.0	121.6	123.0	125.6
65°	100.9	100.9	99.7	100.1	100.3	99.0	99.9	101.8	104.1	104.7	107.1
67.5°	85.8	85.2	84.5	84.0	84.0	83.9	84.4	85.3	87.0	87.2	89.1
70°	75.4	75.0	74.8	74.3	73.5	74.4	73.9	74.8	75.8	76.0	77.1
72.5°	65.4	65.0	64.7	64.1	63.8	63.7	63.7	64.8	65.5	65.2	66.4
75°	51.1	50.7	50.3	49.4	49.4	48.8	49.0	49.7	50.5	50.0	51.1
77.5°	37.5	36.4	36.3	36.5	35.9	36.0	35.8	35.7	36.0	36.0	37.1
80°	28.9	27.6	27.9	27.7	27.6	27.3	27.0	27.1	27.3	27.6	28.1
82.5°	20.8	20.7	20.3	20.3	20.1	19.6	19.4	19.7	19.9	19.8	20.2
85°	10.6	10.0	10.4	10.3	10.4	10.3	9.7	9.7	10.0	9.9	10.3
87.5°	7.3	7.1	6.5	6.2	5.5	5.2	4.6	4.5	4.2	3.8	3.8
90°	20.4	19.6	17.3	14.9	12.6	10.2	8.1	6.3	4.5	2.6	0.8
92.5°	22.1	21.0	19.2	17.4	15.7	13.9	13.2	13.7	14.2	14.8	15.2
95°	26.7	25.4	23.4	21.4	19.4	17.4	20.1	27.6	35.1	42.5	50.0
97.5°	27.8	26.3	39.5	52.6	65.7	78.8	87.0	90.3	93.7	97.0	100.4
100°	28.5	27.0	55.4	83.8	112.2	140.6	153.0	149.3	145.7	142.0	138.4
102.5°	49.4	53.9	84.9	115.9	146.9	177.9	192.1	189.5	186.9	184.3	181.6
105°	147.2	179.4	195.8	212.1	228.4	244.8	252.0	250.1	248.0	246.1	244.0
107.5°	305.1	328.7	326.1	323.5	321.0	318.4	316.3	314.7	313.1	311.4	309.9
110°	363.3	369.3	367.3	365.3	363.3	361.3	359.5	358.2	356.7	355.2	353.8



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	410.7	410.6	408.6	406.6	404.6	402.6	401.0	399.7	398.3	397.0	395.7
115°	471.9	470.0	468.4	466.8	465.1	463.5	462.1	461.1	459.9	458.9	457.8
117.5°	529.1	527.7	526.8	526.0	525.2	524.3	523.3	521.9	520.6	519.2	517.9
120°	566.5	565.0	564.5	563.9	563.4	562.9	561.7	560.1	558.5	556.8	555.2
122.5°	603.4	602.3	601.7	601.0	600.3	599.6	598.6	597.2	595.9	594.5	593.2
125°	655.5	655.1	654.4	653.6	652.9	652.2	651.1	649.6	648.2	646.8	645.3
127.5°	706.8	706.2	705.3	704.5	703.6	702.7	701.6	700.1	698.6	697.2	695.7
130°	737.8	737.0	736.3	735.6	734.8	734.1	733.0	731.6	730.1	728.6	727.2
132.5°	767.2	766.5	765.9	765.3	764.8	764.2	763.1	761.7	760.2	758.8	757.3
135°	812.0	811.5	810.8	810.1	809.3	808.6	807.7	806.6	805.5	804.5	803.3
137.5°	851.5	850.7	850.3	849.9	849.5	849.1	848.2	846.8	845.4	844.0	842.6
140°	876.9	876.2	875.6	875.1	874.6	874.0	873.2	872.1	871.1	869.9	868.9
142.5°	901.1	900.4	899.9	899.4	898.8	898.3	897.5	896.3	895.3	894.1	893.1
145°	934.7	934.3	934.0	933.6	933.3	932.9	932.1	930.8	929.5	928.2	927.0
147.5°	964.7	964.3	963.9	963.6	963.2	962.9	962.3	961.4	960.6	959.8	959.0
150°	983.0	982.7	982.3	981.9	981.5	981.2	980.7	980.2	979.7	979.1	978.6
152.5°	999.1	998.4	998.2	997.9	997.8	997.5	997.3	997.0	996.8	996.5	996.3
155°	1021.2	1020.3	1020.2	1019.9	1019.8	1019.6	1019.7	1020.1	1020.4	1020.8	1021.2
157.5°	1040.6	1039.5	1039.7	1039.8	1040.1	1040.2	1040.3	1040.4	1040.4	1040.5	1040.5
160°	1051.7	1050.7	1050.8	1051.0	1051.2	1051.3	1051.6	1051.7	1051.9	1052.1	1052.3
162.5°	1061.7	1060.5	1060.6	1060.9	1061.0	1061.2	1061.5	1062.0	1062.5	1062.9	1063.4
165°	1075.1	1073.6	1073.7	1073.9	1074.1	1074.3	1074.6	1075.2	1075.8	1076.3	1076.8
167.5°	1085.5	1084.0	1084.0	1084.0	1084.0	1084.0	1084.4	1085.2	1085.9	1086.6	1087.3
170°	1091.4	1090.0	1090.0	1090.0	1090.0	1090.0	1090.3	1091.0	1091.8	1092.5	1093.2
172.5°	1095.4	1093.9	1093.7	1093.6	1093.4	1093.3	1093.6	1094.5	1095.4	1096.3	1097.1
175°	1100.2	1098.9	1098.8	1098.6	1098.4	1098.2	1098.6	1099.5	1100.4	1101.3	1102.2
177.5°	1102.1	1100.9	1100.7	1100.7	1100.5	1100.3	1100.7	1101.4	1102.1	1102.8	1103.5
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



TEST NUMBER: P332102-930

CATALOG NUMBER: S123DIW-S340D1030U930-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	394.4	395.3	397.8	399.7	401.8	403.0	404.1	405.1	406.3	406.6	411.0
5°	396.2	400.0	406.7	411.6	417.7	424.3	428.8	431.0	436.5	441.0	450.1
7.5°	395.7	403.8	413.8	424.3	435.4	445.7	454.7	465.4	472.9	484.3	495.5
10°	395.3	406.1	419.0	432.3	447.8	462.3	475.2	489.7	501.7	517.4	530.8
12.5°	393.9	407.0	424.9	440.7	459.6	479.5	498.6	517.1	527.7	554.0	566.4
15°	390.5	406.1	428.5	452.4	478.4	502.0	526.3	545.7	577.0	600.0	614.7
17.5°	384.1	405.9	432.4	461.3	492.9	524.0	551.5	580.9	614.2	642.0	671.6
20°	381.0	405.0	434.6	466.5	499.4	534.5	565.8	601.1	637.4	664.8	702.8
22.5°	375.4	402.5	434.4	469.9	505.1	541.4	578.1	613.8	655.7	693.3	729.5
25°	366.2	396.6	429.7	469.4	510.5	547.0	590.9	638.2	681.8	730.3	766.4
27.5°	356.5	389.0	422.1	459.0	503.4	546.7	601.9	655.3	708.7	750.5	777.2
30°	349.1	380.7	414.8	452.1	495.9	547.4	609.1	667.4	719.5	755.4	770.4
32.5°	341.0	373.0	403.2	442.3	489.1	546.9	613.7	674.6	720.1	744.0	741.0
35°	328.4	355.1	384.7	422.2	477.3	543.6	616.4	675.2	703.1	698.0	659.3
37.5°	310.1	332.7	361.7	402.8	463.7	536.5	611.0	655.2	653.4	611.6	555.5
40°	298.8	318.0	345.8	389.1	453.0	532.0	602.7	631.4	607.1	548.7	481.5
42.5°	283.9	301.6	329.5	374.0	441.3	522.8	586.7	595.0	547.5	480.4	418.7
45°	260.8	276.4	305.2	351.2	423.7	502.6	547.8	527.4	463.4	394.1	347.2
47.5°	235.9	252.2	279.9	327.2	398.4	472.2	493.7	450.5	384.8	328.6	285.5
50°	220.3	235.9	263.1	310.7	381.2	447.3	456.2	400.4	340.0	290.6	255.3
52.5°	204.6	219.2	245.9	293.8	361.2	418.4	412.9	356.0	300.5	258.4	230.6
55°	181.0	194.9	220.3	265.1	326.5	371.9	352.0	297.7	251.7	219.0	197.9
57.5°	160.0	173.3	195.2	235.7	289.0	320.2	294.9	249.1	212.5	187.4	171.7
60°	145.7	157.4	178.4	216.0	262.3	286.0	261.0	220.5	189.7	169.6	155.6
62.5°	132.2	142.4	161.8	195.9	236.2	256.1	230.7	196.5	170.3	152.5	140.5
65°	111.7	121.0	138.1	164.7	197.7	211.0	189.1	161.4	141.1	127.8	119.8
67.5°	93.0	100.9	115.7	136.6	160.9	170.6	153.9	132.5	117.2	106.5	100.2
70°	80.6	87.4	99.0	117.0	139.0	146.4	130.9	113.2	102.0	93.4	87.6
72.5°	70.0	75.1	85.6	99.5	117.9	123.8	112.9	97.4	87.0	80.6	75.8
75°	53.4	57.6	64.4	75.6	88.3	91.7	83.6	73.9	66.9	62.3	58.7
77.5°	38.5	41.6	46.5	53.4	62.2	65.3	60.2	53.6	48.5	45.5	43.5
80°	29.0	31.6	35.7	41.4	46.7	48.4	45.4	40.4	36.9	35.1	33.4
82.5°	21.4	22.8	25.4	29.3	32.9	34.9	32.4	29.4	27.4	25.8	25.2
85°	10.8	11.6	12.7	14.3	16.6	17.3	16.3	15.6	14.4	13.5	13.5
87.5°	4.5	4.8	5.6	6.4	7.3	8.3	8.6	8.8	9.1	9.0	9.0
90°	2.6	4.5	6.3	8.1	10.2	12.6	14.9	17.3	19.6	20.4	21.1
92.5°	14.8	14.2	13.7	13.2	13.9	15.7	17.4	19.2	21.0	22.1	23.3
95°	42.5	35.1	27.6	20.1	17.4	19.4	21.4	23.4	25.4	26.7	28.0
97.5°	97.0	93.7	90.3	87.0	78.8	65.7	52.6	39.5	26.3	27.8	29.3
100°	142.0	145.7	149.3	153.0	140.6	112.2	83.8	55.4	27.0	28.5	29.9
102.5°	184.3	186.9	189.5	192.1	177.9	146.9	115.9	84.9	53.9	49.4	44.8
105°	246.1	248.0	250.1	252.0	244.8	228.4	212.1	195.8	179.4	147.2	115.0
107.5°	311.4	313.1	314.7	316.3	318.4	321.0	323.5	326.1	328.7	305.1	281.4
110°	355.2	356.7	358.2	359.5	361.3	363.3	365.3	367.3	369.3	363.3	357.3





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	397.0	398.3	399.7	401.0	402.6	404.6	406.6	408.6	410.6	410.7	410.8
115°	458.9	459.9	461.1	462.1	463.5	465.1	466.8	468.4	470.0	471.9	473.7
117.5°	519.2	520.6	521.9	523.3	524.3	525.2	526.0	526.8	527.7	529.1	530.6
120°	556.8	558.5	560.1	561.7	562.9	563.4	563.9	564.5	565.0	566.5	567.9
122.5°	594.5	595.9	597.2	598.6	599.6	600.3	601.0	601.7	602.3	603.4	604.4
125°	646.8	648.2	649.6	651.1	652.2	652.9	653.6	654.4	655.1	655.5	655.8
127.5°	697.2	698.6	700.1	701.6	702.7	703.6	704.5	705.3	706.2	706.8	707.4
130°	728.6	730.1	731.6	733.0	734.1	734.8	735.6	736.3	737.0	737.8	738.5
132.5°	758.8	760.2	761.7	763.1	764.2	764.8	765.3	765.9	766.5	767.2	767.9
135°	804.5	805.5	806.6	807.7	808.6	809.3	810.1	810.8	811.5	812.0	812.6
137.5°	844.0	845.4	846.8	848.2	849.1	849.5	849.9	850.3	850.7	851.5	852.4
140°	869.9	871.1	872.1	873.2	874.0	874.6	875.1	875.6	876.2	876.9	877.7
142.5°	894.1	895.3	896.3	897.5	898.3	898.8	899.4	899.9	900.4	901.1	901.6
145°	928.2	929.5	930.8	932.1	932.9	933.3	933.6	934.0	934.3	934.7	935.1
147.5°	959.8	960.6	961.4	962.3	962.9	963.2	963.6	963.9	964.3	964.7	965.1
150°	979.1	979.7	980.2	980.7	981.2	981.5	981.9	982.3	982.7	983.0	983.4
152.5°	996.5	996.8	997.0	997.3	997.5	997.8	997.9	998.2	998.4	999.1	999.7
155°	1020.8	1020.4	1020.1	1019.7	1019.6	1019.8	1019.9	1020.2	1020.3	1021.2	1022.1
157.5°	1040.5	1040.4	1040.4	1040.3	1040.2	1040.1	1039.8	1039.7	1039.5	1040.6	1041.7
160°	1052.1	1051.9	1051.7	1051.6	1051.3	1051.2	1051.0	1050.8	1050.7	1051.7	1052.8
162.5°	1062.9	1062.5	1062.0	1061.5	1061.2	1061.0	1060.9	1060.6	1060.5	1061.7	1062.9
165°	1076.3	1075.8	1075.2	1074.6	1074.3	1074.1	1073.9	1073.7	1073.6	1075.1	1076.4
167.5°	1086.6	1085.9	1085.2	1084.4	1084.0	1084.0	1084.0	1084.0	1084.0	1085.5	1087.0
170°	1092.5	1091.8	1091.0	1090.3	1090.0	1090.0	1090.0	1090.0	1090.0	1091.4	1092.8
172.5°	1096.3	1095.4	1094.5	1093.6	1093.3	1093.4	1093.6	1093.7	1093.9	1095.4	1096.8
175°	1101.3	1100.4	1099.5	1098.6	1098.2	1098.4	1098.6	1098.8	1098.9	1100.2	1101.5
177.5°	1102.8	1102.1	1101.4	1100.7	1100.3	1100.5	1100.7	1100.7	1100.9	1102.1	1103.3
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	392.0	392.0	392.0	392.0	392.0	392.0	392.0
2.5°	412.5	412.7	414.3	415.6	415.0	415.7	416.0
5°	450.7	457.5	461.1	463.8	464.0	464.2	465.7
7.5°	504.8	512.2	517.6	525.7	528.1	530.8	530.1
10°	544.4	555.2	564.5	569.4	574.8	582.5	576.3
12.5°	581.3	600.5	614.7	622.3	627.3	628.8	625.8
15°	642.2	667.2	680.7	680.4	697.4	704.8	693.2
17.5°	698.0	721.1	739.7	749.2	763.4	766.5	765.2
20°	732.2	757.5	771.9	788.2	795.7	802.3	803.4
22.5°	761.7	784.4	799.9	813.4	819.6	822.8	824.7
25°	792.1	809.9	819.2	823.9	825.7	825.2	822.8
27.5°	789.9	791.3	781.1	771.0	762.0	751.9	748.4
30°	769.4	753.5	725.0	708.8	685.1	666.3	673.9
32.5°	715.5	683.7	651.8	616.4	587.3	578.9	570.5
35°	610.7	554.8	522.1	484.1	469.0	453.8	443.3
37.5°	494.0	450.9	412.1	387.3	372.0	362.4	357.3
40°	427.1	388.2	356.3	336.1	324.6	313.8	312.3
42.5°	373.8	337.6	313.6	297.6	286.5	281.8	278.5
45°	306.1	281.0	264.8	253.4	246.0	243.1	239.3
47.5°	259.2	241.3	229.2	221.4	215.8	213.7	213.4
50°	232.8	218.0	209.1	203.0	198.7	197.9	194.9
52.5°	213.1	200.2	193.3	188.0	184.8	182.7	181.8
55°	185.0	176.4	170.2	167.1	164.7	162.6	162.6
57.5°	161.8	154.7	150.6	148.0	147.2	145.8	144.8
60°	147.6	141.5	138.3	136.0	134.4	134.7	133.0
62.5°	133.6	129.6	126.5	124.3	122.5	122.5	122.6
65°	113.7	110.7	108.4	107.7	106.6	105.3	105.6
67.5°	96.4	93.6	91.8	90.5	90.1	89.4	90.5
70°	84.0	81.9	80.6	79.4	79.0	79.2	80.1
72.5°	72.6	71.1	70.2	69.7	68.8	68.9	69.5
75°	57.0	55.8	55.1	54.5	54.3	54.3	54.3
77.5°	41.8	41.6	41.3	40.4	40.4	40.7	40.7
80°	33.0	32.4	32.3	31.9	31.3	31.0	31.9
82.5°	24.7	24.1	24.0	23.9	23.0	22.9	23.7
85°	13.3	12.7	12.9	12.7	12.7	12.6	12.6
87.5°	9.0	9.0	9.0	9.2	9.2	9.1	9.5
90°	21.9	22.6	23.1	23.5	23.8	24.2	24.5
92.5°	24.5	25.6	26.3	26.5	26.7	27.0	27.1
95°	29.2	30.5	31.1	31.1	31.1	31.1	31.1
97.5°	30.7	32.2	33.0	33.2	33.3	33.6	33.8
100°	31.4	32.9	33.7	33.8	34.0	34.2	34.4
102.5°	40.4	35.8	33.8	34.1	34.4	34.7	35.1
105°	82.7	50.5	34.6	35.0	35.3	35.6	36.0
107.5°	257.9	234.2	210.3	186.0	161.8	137.5	113.2
110°	351.3	345.3	329.3	303.3	277.2	251.2	225.2



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	410.9	411.0	408.3	402.8	397.4	391.8	386.4
115°	475.5	477.4	478.6	479.3	480.0	480.8	481.5
117.5°	532.1	533.5	534.3	534.4	534.6	534.8	534.9
120°	569.4	570.9	571.6	571.6	571.6	571.6	571.6
122.5°	605.4	606.4	607.1	607.2	607.3	607.5	607.6
125°	656.2	656.6	657.0	657.3	657.6	658.0	658.4
127.5°	707.9	708.6	708.7	708.3	707.9	707.6	707.2
130°	739.2	739.9	740.1	739.7	739.4	739.0	738.7
132.5°	768.7	769.4	769.5	769.0	768.5	768.0	767.4
135°	813.2	813.7	813.7	813.2	812.6	812.0	811.5
137.5°	853.3	854.2	854.4	854.0	853.7	853.3	853.0
140°	878.4	879.1	879.3	879.0	878.6	878.2	877.8
142.5°	902.2	902.8	902.8	902.3	901.8	901.3	900.7
145°	935.5	935.8	936.0	936.0	936.0	936.0	936.0
147.5°	965.4	965.8	965.6	964.7	963.8	963.0	962.2
150°	983.7	984.1	984.1	983.5	982.9	982.4	981.9
152.5°	1000.4	1001.0	1000.9	1000.0	999.2	998.4	997.6
155°	1023.0	1024.0	1023.9	1022.8	1021.7	1020.6	1019.5
157.5°	1042.8	1043.8	1043.7	1042.3	1040.9	1039.4	1038.0
160°	1053.9	1055.0	1054.9	1053.6	1052.4	1051.1	1049.8
162.5°	1064.2	1065.4	1065.4	1064.4	1063.2	1062.1	1060.9
165°	1077.9	1079.4	1079.5	1078.2	1076.9	1075.6	1074.4
167.5°	1088.4	1089.9	1089.9	1088.4	1087.0	1085.5	1084.0
170°	1094.3	1095.8	1095.8	1094.3	1092.8	1091.4	1090.0
172.5°	1098.2	1099.7	1099.6	1098.0	1096.4	1094.8	1093.2
175°	1102.8	1104.1	1104.0	1102.5	1101.1	1099.6	1098.1
177.5°	1104.4	1105.5	1105.5	1104.0	1102.5	1101.1	1099.6
180°	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2	1102.2

(END OF REPORT)