

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: P332398-930

Luminaire Tested: **S123RDIW-S340D1030U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P332398-930
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: S123RDIW-S340D1030U930-4F0-1E-UDD-A
Description: DEFINE 3 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 340 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 1030 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4469.1 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.25' x H: 0')
CIE Type: Semi-Indirect

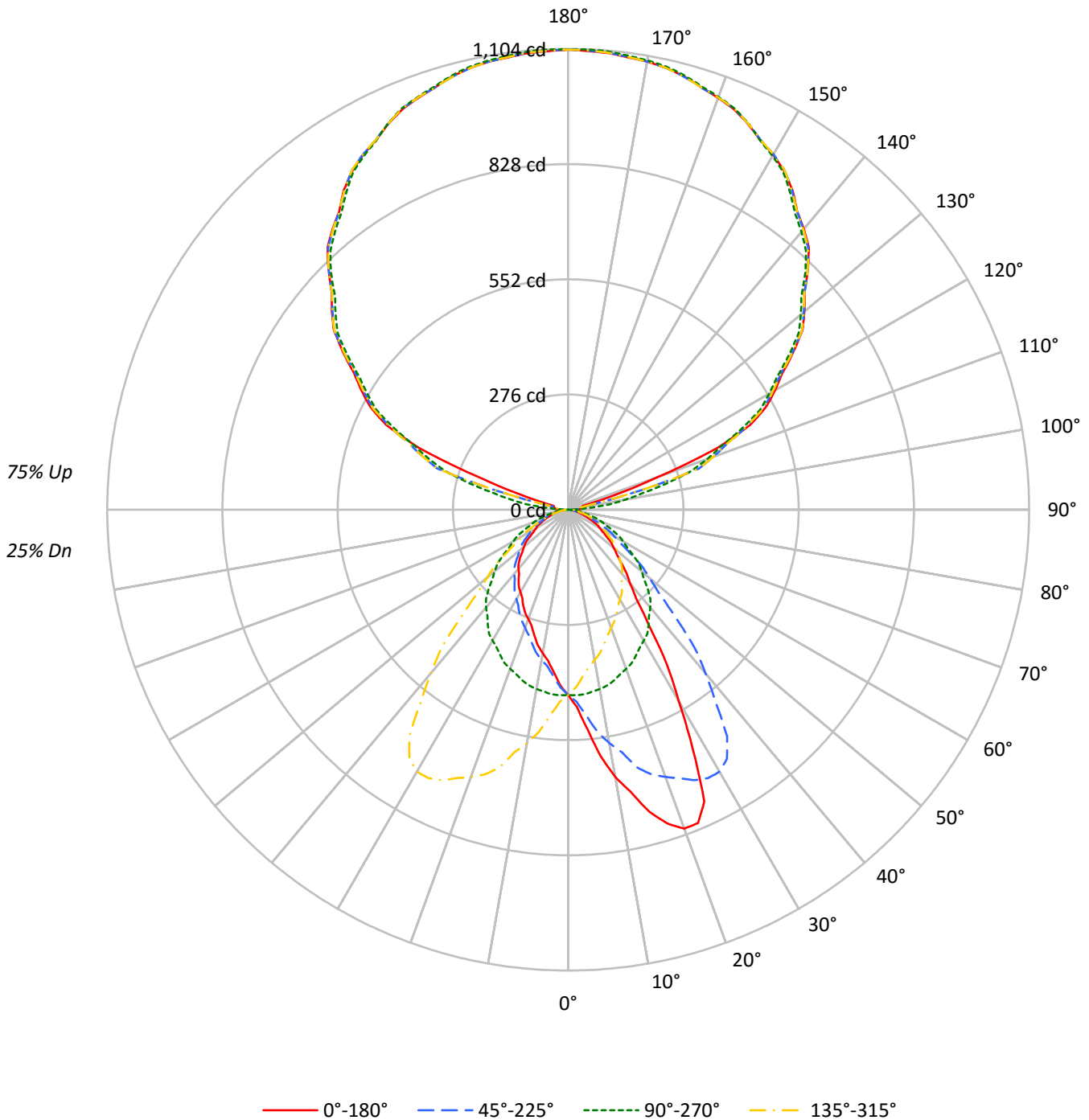
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69	69	69	50	50	50	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	72	67	75	69	64	60	54	51	48	39	37	36	26	25	24	18
3	77	68	61	56	68	61	55	51	48	44	40	35	33	31	24	22	21	16
4	71	60	53	47	63	54	48	43	42	38	35	31	29	26	21	20	18	14
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	26	22	20	17	16	14	11
7	55	43	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	25	28	23	20	21	18	16	15	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	14	12	10	8
10	44	33	26	21	39	30	24	20	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	4776	4776	4776	4776
5°	5693	4796	4224	4796
10°	7109	4769	3816	4769
15°	8344	4719	3480	4719
20°	9313	4647	3194	4647
25°	9164	4570	3018	4570
30°	6586	4501	2838	4501
35°	4398	4407	2720	4407
40°	3240	4297	2599	4297
45°	2719	4102	2481	4102
50°	2398	3848	2316	3848
55°	2104	3558	2089	3558
60°	1873	3279	1914	3279
65°	1645	2980	1780	2980
70°	1290	2716	1627	2716
75°	1135	2371	1485	2371
80°	992	2008	1463	2008
85°	790	1618	1556	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.0
10°-20°	136.3	3.1
20°-30°	214.2	4.8
30°-40°	223.4	5.0
40°-50°	191.2	4.3
50°-60°	145.7	3.3
60°-70°	93.4	2.1
70°-80°	44.9	1.0
80°-90°	15.0	0.3
90°-100°	40.1	0.9
100°-110°	191.0	4.3
110°-120°	458.8	10.3
120°-130°	584.2	13.1
130°-140°	624.2	14.0
140°-150°	583.7	13.1
150°-160°	470.8	10.5
160°-170°	303.9	6.8
170°-180°	104.7	2.3
0°-30°	394.1	8.8
0°-40°	617.6	13.8
0°-60°	954.5	21.4
0°-90°	1107.9	24.8
90°-120°	689.8	15.4
90°-150°	2481.9	55.5
90°-180°	3361.0	75.2
0°-180°	4469.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	444	444	444	444	444	
5°	527	444	391	444	527	54
15°	749	424	312	424	749	212
25°	772	385	254	385	772	332
35°	335	335	207	335	335	219
45°	179	270	163	270	179	140
55°	112	190	111	190	112	101
65°	65	117	70	117	65	64
75°	27	57	36	57	27	29
85°	6	13	13	13	6	8
90°	24	1	24	1	24	11
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°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	472.6	473.2	471.2	470.9	468.6	468.1	468.1	464.8	462.8	460.3	458.8
5°	526.9	529.9	528.4	525.1	519.3	518.0	514.4	508.7	502.2	494.2	490.5
7.5°	594.8	598.9	597.3	592.1	586.0	581.2	571.0	561.6	548.4	536.7	526.8
10°	650.4	646.0	642.6	637.5	631.9	623.1	612.4	597.8	580.9	567.5	552.8
12.5°	692.0	691.3	687.0	681.7	673.9	665.4	652.3	634.5	614.9	595.7	578.7
15°	748.8	749.9	747.1	741.6	730.5	715.5	695.8	688.4	660.2	639.4	618.5
17.5°	788.1	787.8	787.4	779.8	768.6	757.9	739.6	720.1	694.6	665.2	637.1
20°	813.0	811.1	811.5	802.9	794.6	782.2	764.3	736.1	715.2	681.2	652.1
22.5°	812.4	812.0	813.4	810.5	804.5	795.0	780.9	757.0	730.3	696.0	663.3
25°	771.6	770.1	778.9	781.5	791.2	792.9	788.6	775.6	750.3	714.9	674.5
27.5°	645.7	644.9	661.5	682.2	708.5	729.0	748.7	758.2	750.3	725.0	684.4
30°	529.9	547.8	556.2	586.2	619.6	659.5	694.5	727.7	735.9	724.8	691.6
32.5°	440.0	455.6	462.6	488.3	519.5	566.2	618.6	665.7	699.0	707.4	687.4
35°	334.7	334.8	350.8	362.2	391.1	439.1	490.1	553.1	615.8	663.3	668.2
37.5°	267.1	268.0	277.7	289.0	310.7	336.1	380.9	433.3	505.7	578.6	621.4
40°	230.6	232.3	239.5	250.7	266.3	285.5	320.4	369.8	430.2	511.4	577.6
42.5°	207.2	209.9	213.7	222.3	232.0	250.0	278.2	316.3	371.3	448.0	524.5
45°	178.6	180.1	183.0	186.9	195.7	208.1	227.1	252.8	298.4	360.1	436.7
47.5°	157.5	156.7	159.7	162.9	168.8	177.3	190.0	210.9	243.4	293.0	357.9
50°	143.2	143.0	145.1	147.6	153.1	159.4	169.8	185.6	211.4	252.4	311.9
52.5°	129.9	130.5	132.1	135.1	139.1	144.1	153.5	164.9	187.1	222.5	272.1
55°	112.1	112.7	114.7	116.4	119.3	124.4	130.3	139.8	155.0	179.7	220.5
57.5°	97.0	96.8	98.7	99.2	102.4	106.6	111.1	118.5	129.6	147.9	175.4
60°	87.0	86.4	88.1	89.4	91.2	94.6	98.4	105.6	114.4	127.8	151.4
62.5°	77.9	77.6	78.8	80.2	81.6	84.7	87.9	93.4	100.4	111.7	130.4
65°	64.6	65.1	65.7	66.3	67.0	69.0	72.0	75.8	80.6	88.5	102.0
67.5°	50.8	51.4	51.5	52.7	54.3	55.5	57.4	60.7	64.1	70.8	78.4
70°	41.0	40.8	41.0	41.6	43.7	45.7	48.3	50.7	52.8	57.6	64.0
72.5°	35.2	34.9	35.4	35.5	36.5	37.1	38.6	41.0	43.7	46.9	51.5
75°	27.3	27.3	27.3	27.3	28.1	28.5	29.0	29.6	30.6	32.1	35.5
77.5°	20.2	20.2	20.5	20.7	20.9	21.1	21.4	22.0	22.3	23.2	24.6
80°	16.0	16.1	16.0	16.1	16.1	16.6	16.7	17.3	17.4	18.4	19.0
82.5°	12.0	11.9	12.0	12.2	12.2	12.6	12.6	13.0	13.0	13.5	14.1
85°	6.4	6.1	6.4	6.3	6.7	6.3	6.4	6.8	6.8	7.0	7.8
87.5°	6.4	6.7	6.3	6.4	6.3	6.4	6.2	6.0	6.2	5.9	5.6
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	84.9
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°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	458.1	457.7	455.6	453.1	450.0	447.8	446.1	445.2	442.5	439.1	436.9
5°	486.5	480.8	474.7	467.2	460.4	453.4	449.1	443.9	437.7	430.6	425.7
7.5°	516.7	505.6	493.6	481.1	468.9	457.9	448.1	439.8	429.8	419.7	412.7
10°	540.1	523.7	506.8	489.5	473.8	458.9	447.5	436.3	424.4	412.8	404.0
12.5°	561.2	539.6	520.2	498.9	478.7	461.1	444.7	431.5	417.0	404.7	394.8
15°	587.9	565.8	542.3	510.0	483.2	460.8	440.8	423.5	406.1	390.9	381.2
17.5°	612.9	579.8	548.0	521.1	486.3	458.4	434.0	413.4	394.1	378.1	366.1
20°	623.2	591.1	556.8	522.4	488.2	456.8	428.5	405.7	385.8	367.5	356.5
22.5°	629.4	593.1	556.8	519.9	483.6	451.0	423.1	397.9	376.3	359.1	345.4
25°	636.7	593.4	553.5	517.1	480.0	444.7	411.4	384.8	361.5	343.1	328.6
27.5°	641.5	590.5	543.4	502.9	465.3	430.2	399.7	371.5	347.7	328.2	312.7
30°	642.4	588.2	535.7	491.8	453.6	421.3	389.0	362.1	337.0	316.3	301.8
32.5°	643.6	582.6	525.1	478.6	439.4	407.5	378.2	352.5	326.8	306.4	291.6
35°	638.6	579.5	509.2	455.7	416.5	385.6	359.2	335.4	310.2	290.4	275.4
37.5°	617.0	567.2	492.8	429.9	389.0	360.4	338.8	318.1	295.0	273.6	259.5
40°	595.3	555.1	480.0	414.3	371.5	342.1	322.7	305.8	283.4	263.4	248.3
42.5°	563.0	538.4	467.8	397.9	351.8	323.4	307.0	291.2	271.6	251.3	237.0
45°	503.5	506.8	443.0	371.7	324.4	296.0	280.5	269.5	252.1	235.4	220.7
47.5°	429.1	459.3	413.8	343.9	295.6	268.9	255.4	245.8	234.0	217.6	204.2
50°	380.5	423.5	390.4	325.2	277.5	250.9	237.7	229.8	219.6	206.7	194.0
52.5°	335.7	382.0	362.1	304.4	257.9	233.6	220.6	214.2	206.0	193.9	182.4
55°	273.7	320.7	316.1	273.0	228.5	206.7	196.8	189.6	184.1	175.0	165.8
57.5°	221.4	265.9	268.2	238.0	202.6	181.0	172.5	167.1	163.5	156.6	148.1
60°	188.4	229.3	237.3	214.4	184.1	165.1	156.7	152.3	149.5	144.0	137.5
62.5°	161.1	195.8	204.9	188.5	166.3	148.5	141.9	137.8	135.8	131.1	125.4
65°	123.3	152.1	160.9	151.8	140.1	126.0	120.6	117.0	115.3	112.7	108.4
67.5°	92.7	113.7	123.4	116.9	112.7	103.7	100.4	98.4	96.9	95.1	91.6
70°	74.4	90.0	99.9	98.2	94.8	90.0	87.6	86.3	84.7	83.2	80.1
72.5°	59.8	70.6	79.8	80.7	77.9	77.0	74.8	74.2	73.3	71.5	69.8
75°	39.7	47.1	53.6	56.0	57.2	58.1	57.2	57.0	56.8	55.3	54.3
77.5°	26.0	30.0	34.1	38.3	40.1	41.3	41.7	42.4	41.8	41.1	40.6
80°	20.0	20.9	23.7	27.3	30.2	31.3	32.1	32.4	32.3	32.1	31.3
82.5°	14.5	15.2	16.6	19.2	21.5	23.4	23.9	23.8	24.2	24.4	23.7
85°	7.8	8.0	8.4	8.7	10.0	12.1	12.7	13.1	13.5	13.5	12.3
87.5°	5.4	4.8	4.6	4.2	4.3	4.1	4.6	5.1	5.5	5.3	5.6
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: P332398-930

CATALOG NUMBER: S123RDIW-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: P332398-930

CATALOG NUMBER: S123RDIW-S340D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	436.1	434.1	432.8	429.7	427.8	425.7	423.5	424.9	424.7	424.6	424.6
5°	421.5	417.1	413.1	408.0	404.8	400.8	397.8	397.4	398.1	395.5	394.0
7.5°	407.0	401.0	395.3	389.7	383.7	378.9	375.9	374.5	372.6	371.0	369.2
10°	396.8	389.8	384.3	377.2	370.8	365.1	361.5	359.0	357.7	356.4	353.8
12.5°	386.3	379.4	372.4	364.4	358.3	351.7	349.0	346.3	343.7	342.2	338.8
15°	371.0	362.1	354.7	346.3	339.4	333.0	329.2	323.7	322.9	321.0	317.6
17.5°	355.6	345.9	335.7	329.5	321.8	315.0	309.2	307.4	302.0	299.9	296.9
20°	343.4	334.5	326.7	318.5	307.4	301.1	296.5	294.1	289.7	287.0	285.1
22.5°	333.0	323.8	314.9	305.3	296.1	289.0	285.7	281.8	279.5	275.7	273.7
25°	318.0	308.1	297.3	287.0	280.4	275.1	269.7	266.3	262.9	261.1	257.4
27.5°	300.6	290.2	280.1	272.3	264.2	258.9	254.1	251.1	247.0	244.1	242.0
30°	291.0	278.8	270.1	263.1	252.7	247.7	244.1	240.3	237.3	234.2	232.1
32.5°	279.9	268.8	260.6	251.8	243.9	238.4	233.7	230.4	227.8	224.9	222.8
35°	262.5	253.2	244.7	235.9	230.0	224.5	219.0	216.1	213.7	211.0	209.1
37.5°	246.8	238.1	229.9	221.7	214.3	209.9	205.5	203.3	199.9	198.1	196.2
40°	237.1	228.5	219.8	211.8	204.2	200.8	196.8	193.6	190.5	189.1	187.1
42.5°	226.4	217.8	210.5	201.9	195.7	191.0	187.4	183.8	181.6	179.6	178.5
45°	210.7	203.1	195.8	187.3	181.4	177.4	173.3	170.0	168.0	166.6	164.5
47.5°	195.3	187.8	180.4	173.0	167.3	162.7	158.5	156.3	153.5	151.9	150.5
50°	184.3	177.4	169.7	162.8	157.1	152.5	149.1	146.3	143.8	141.7	140.7
52.5°	174.1	166.8	160.0	153.7	147.7	142.5	139.4	136.4	134.5	132.2	131.0
55°	157.3	150.3	144.6	138.3	132.4	128.0	124.3	121.6	119.7	117.0	115.5
57.5°	141.5	135.2	128.4	122.9	116.9	113.2	110.1	106.5	104.1	102.1	100.5
60°	130.9	123.7	117.7	112.7	107.3	102.6	99.7	96.9	94.4	92.3	91.0
62.5°	119.8	113.5	107.9	102.3	97.4	93.3	90.0	87.6	85.4	84.1	82.8
65°	102.7	97.8	92.1	87.6	83.0	80.0	77.3	75.3	73.7	72.7	71.6
67.5°	87.1	82.3	77.4	72.9	69.8	67.5	65.8	64.0	63.2	62.0	61.2
70°	77.0	72.0	67.6	64.2	61.1	59.4	58.3	57.0	56.3	54.7	54.0
72.5°	65.9	62.3	59.1	56.3	53.9	52.3	50.9	49.2	48.0	46.3	45.6
75°	51.9	48.6	46.1	44.3	42.7	40.7	38.6	36.9	36.3	35.7	35.5
77.5°	38.4	36.4	34.6	32.9	31.1	29.6	29.1	28.7	28.6	28.3	28.3
80°	30.2	28.3	27.0	25.1	24.0	24.0	24.0	23.6	23.7	23.7	23.7
82.5°	22.4	20.7	20.0	19.3	19.1	19.2	19.2	19.3	19.2	19.5	19.3
85°	11.6	11.7	12.1	12.0	12.1	12.1	12.6	12.3	12.6	12.1	12.6
87.5°	5.9	6.8	7.3	8.0	8.6	9.0	9.2	9.4	9.7	9.9	9.9
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: P332398-930

CATALOG NUMBER: S123RDIW-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: P332398-930

CATALOG NUMBER: S123RDIW-S340D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	422.7	422.6	422.7	422.2	422.7	422.6	422.7	424.6	424.6	424.7	424.9
5°	393.4	393.2	392.6	390.9	392.6	393.2	393.4	394.0	395.5	398.1	397.4
7.5°	367.7	367.5	365.8	365.8	365.8	367.5	367.7	369.2	371.0	372.6	374.5
10°	352.5	352.7	350.4	349.1	350.4	352.7	352.5	353.8	356.4	357.7	359.0
12.5°	337.8	337.0	335.1	333.6	335.1	337.0	337.8	338.8	342.2	343.7	346.3
15°	318.4	316.4	311.9	312.3	311.9	316.4	318.4	317.6	321.0	322.9	323.7
17.5°	295.5	294.1	294.0	291.3	294.0	294.1	295.5	296.9	299.9	302.0	307.4
20°	282.1	281.1	281.5	278.8	281.5	281.1	282.1	285.1	287.0	289.7	294.1
22.5°	271.6	270.6	269.0	268.2	269.0	270.6	271.6	273.7	275.7	279.5	281.8
25°	256.2	254.7	253.2	254.1	253.2	254.7	256.2	257.4	261.1	262.9	266.3
27.5°	240.9	239.8	238.2	238.1	238.2	239.8	240.9	242.0	244.1	247.0	251.1
30°	231.1	230.0	229.3	228.3	229.3	230.0	231.1	232.1	234.2	237.3	240.3
32.5°	221.3	221.0	219.7	219.5	219.7	221.0	221.3	222.8	224.9	227.8	230.4
35°	208.4	207.2	206.8	207.0	206.8	207.2	208.4	209.1	211.0	213.7	216.1
37.5°	196.1	194.6	193.9	193.2	193.9	194.6	196.1	196.2	198.1	199.9	203.3
40°	187.3	185.8	185.4	185.0	185.4	185.8	187.3	187.1	189.1	190.5	193.6
42.5°	177.4	176.8	176.6	175.9	176.6	176.8	177.4	178.5	179.6	181.6	183.8
45°	164.0	163.7	162.6	163.0	162.6	163.7	164.0	164.5	166.6	168.0	170.0
47.5°	149.7	148.9	148.1	148.6	148.1	148.9	149.7	150.5	151.9	153.5	156.3
50°	140.0	139.6	137.9	138.3	137.9	139.6	140.0	140.7	141.7	143.8	146.3
52.5°	130.3	128.8	128.2	127.9	128.2	128.8	130.3	131.0	132.2	134.5	136.4
55°	114.1	112.4	111.7	111.3	111.7	112.4	114.1	115.5	117.0	119.7	121.6
57.5°	98.3	97.9	97.3	97.7	97.3	97.9	98.3	100.5	102.1	104.1	106.5
60°	89.1	89.1	89.1	88.9	89.1	89.1	89.1	91.0	92.3	94.4	96.9
62.5°	81.9	81.4	81.4	81.6	81.4	81.4	81.9	82.8	84.1	85.4	87.6
65°	71.0	70.8	70.1	69.9	70.1	70.8	71.0	71.6	72.7	73.7	75.3
67.5°	60.7	60.1	59.8	59.6	59.8	60.1	60.7	61.2	62.0	63.2	64.0
70°	53.0	52.6	51.4	51.7	51.4	52.6	53.0	54.0	54.7	56.3	57.0
72.5°	44.7	44.3	44.0	43.8	44.0	44.3	44.7	45.6	46.3	48.0	49.2
75°	35.3	35.1	35.0	35.7	35.0	35.1	35.3	35.5	35.7	36.3	36.9
77.5°	28.3	28.3	28.5	28.1	28.5	28.3	28.3	28.3	28.3	28.6	28.7
80°	23.7	23.7	23.6	23.6	23.6	23.7	23.7	23.7	23.7	23.7	23.6
82.5°	19.0	19.2	19.3	19.0	19.3	19.2	19.0	19.3	19.5	19.2	19.3
85°	12.6	12.3	12.7	12.6	12.7	12.3	12.6	12.6	12.1	12.6	12.3
87.5°	10.4	10.1	10.2	10.4	10.2	10.1	10.4	9.9	9.9	9.7	9.4
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: P332398-930

CATALOG NUMBER: S123RDIW-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: P332398-930

CATALOG NUMBER: S123RDIW-S340D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	423.5	425.7	427.8	429.7	432.8	434.1	436.1	436.9	439.1	442.5	445.2
5°	397.8	400.8	404.8	408.0	413.1	417.1	421.5	425.7	430.6	437.7	443.9
7.5°	375.9	378.9	383.7	389.7	395.3	401.0	407.0	412.7	419.7	429.8	439.8
10°	361.5	365.1	370.8	377.2	384.3	389.8	396.8	404.0	412.8	424.4	436.3
12.5°	349.0	351.7	358.3	364.4	372.4	379.4	386.3	394.8	404.7	417.0	431.5
15°	329.2	333.0	339.4	346.3	354.7	362.1	371.0	381.2	390.9	406.1	423.5
17.5°	309.2	315.0	321.8	329.5	335.7	345.9	355.6	366.1	378.1	394.1	413.4
20°	296.5	301.1	307.4	318.5	326.7	334.5	343.4	356.5	367.5	385.8	405.7
22.5°	285.7	289.0	296.1	305.3	314.9	323.8	333.0	345.4	359.1	376.3	397.9
25°	269.7	275.1	280.4	287.0	297.3	308.1	318.0	328.6	343.1	361.5	384.8
27.5°	254.1	258.9	264.2	272.3	280.1	290.2	300.6	312.7	328.2	347.7	371.5
30°	244.1	247.7	252.7	263.1	270.1	278.8	291.0	301.8	316.3	337.0	362.1
32.5°	233.7	238.4	243.9	251.8	260.6	268.8	279.9	291.6	306.4	326.8	352.5
35°	219.0	224.5	230.0	235.9	244.7	253.2	262.5	275.4	290.4	310.2	335.4
37.5°	205.5	209.9	214.3	221.7	229.9	238.1	246.8	259.5	273.6	295.0	318.1
40°	196.8	200.8	204.2	211.8	219.8	228.5	237.1	248.3	263.4	283.4	305.8
42.5°	187.4	191.0	195.7	201.9	210.5	217.8	226.4	237.0	251.3	271.6	291.2
45°	173.3	177.4	181.4	187.3	195.8	203.1	210.7	220.7	235.4	252.1	269.5
47.5°	158.5	162.7	167.3	173.0	180.4	187.8	195.3	204.2	217.6	234.0	245.8
50°	149.1	152.5	157.1	162.8	169.7	177.4	184.3	194.0	206.7	219.6	229.8
52.5°	139.4	142.5	147.7	153.7	160.0	166.8	174.1	182.4	193.9	206.0	214.2
55°	124.3	128.0	132.4	138.3	144.6	150.3	157.3	165.8	175.0	184.1	189.6
57.5°	110.1	113.2	116.9	122.9	128.4	135.2	141.5	148.1	156.6	163.5	167.1
60°	99.7	102.6	107.3	112.7	117.7	123.7	130.9	137.5	144.0	149.5	152.3
62.5°	90.0	93.3	97.4	102.3	107.9	113.5	119.8	125.4	131.1	135.8	137.8
65°	77.3	80.0	83.0	87.6	92.1	97.8	102.7	108.4	112.7	115.3	117.0
67.5°	65.8	67.5	69.8	72.9	77.4	82.3	87.1	91.6	95.1	96.9	98.4
70°	58.3	59.4	61.1	64.2	67.6	72.0	77.0	80.1	83.2	84.7	86.3
72.5°	50.9	52.3	53.9	56.3	59.1	62.3	65.9	69.8	71.5	73.3	74.2
75°	38.6	40.7	42.7	44.3	46.1	48.6	51.9	54.3	55.3	56.8	57.0
77.5°	29.1	29.6	31.1	32.9	34.6	36.4	38.4	40.6	41.1	41.8	42.4
80°	24.0	24.0	24.0	25.1	27.0	28.3	30.2	31.3	32.1	32.3	32.4
82.5°	19.2	19.2	19.1	19.3	20.0	20.7	22.4	23.7	24.4	24.2	23.8
85°	12.6	12.1	12.1	12.0	12.1	11.7	11.6	12.3	13.5	13.5	13.1
87.5°	9.2	9.0	8.6	8.0	7.3	6.8	5.9	5.6	5.3	5.5	5.1
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: P332398-930

CATALOG NUMBER: S123RDIW-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: P332398-930

CATALOG NUMBER: S123RDIW-S340D1030U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	446.1	447.8	450.0	453.1	455.6	457.7	458.1	458.8	460.3	462.8	464.8
5°	449.1	453.4	460.4	467.2	474.7	480.8	486.5	490.5	494.2	502.2	508.7
7.5°	448.1	457.9	468.9	481.1	493.6	505.6	516.7	526.8	536.7	548.4	561.6
10°	447.5	458.9	473.8	489.5	506.8	523.7	540.1	552.8	567.5	580.9	597.8
12.5°	444.7	461.1	478.7	498.9	520.2	539.6	561.2	578.7	595.7	614.9	634.5
15°	440.8	460.8	483.2	510.0	542.3	565.8	587.9	618.5	639.4	660.2	688.4
17.5°	434.0	458.4	486.3	521.1	548.0	579.8	612.9	637.1	665.2	694.6	720.1
20°	428.5	456.8	488.2	522.4	556.8	591.1	623.2	652.1	681.2	715.2	736.1
22.5°	423.1	451.0	483.6	519.9	556.8	593.1	629.4	663.3	696.0	730.3	757.0
25°	411.4	444.7	480.0	517.1	553.5	593.4	636.7	674.5	714.9	750.3	775.6
27.5°	399.7	430.2	465.3	502.9	543.4	590.5	641.5	684.4	725.0	750.3	758.2
30°	389.0	421.3	453.6	491.8	535.7	588.2	642.4	691.6	724.8	735.9	727.7
32.5°	378.2	407.5	439.4	478.6	525.1	582.6	643.6	687.4	707.4	699.0	665.7
35°	359.2	385.6	416.5	455.7	509.2	579.5	638.6	668.2	663.3	615.8	553.1
37.5°	338.8	360.4	389.0	429.9	492.8	567.2	617.0	621.4	578.6	505.7	433.3
40°	322.7	342.1	371.5	414.3	480.0	555.1	595.3	577.6	511.4	430.2	369.8
42.5°	307.0	323.4	351.8	397.9	467.8	538.4	563.0	524.5	448.0	371.3	316.3
45°	280.5	296.0	324.4	371.7	443.0	506.8	503.5	436.7	360.1	298.4	252.8
47.5°	255.4	268.9	295.6	343.9	413.8	459.3	429.1	357.9	293.0	243.4	210.9
50°	237.7	250.9	277.5	325.2	390.4	423.5	380.5	311.9	252.4	211.4	185.6
52.5°	220.6	233.6	257.9	304.4	362.1	382.0	335.7	272.1	222.5	187.1	164.9
55°	196.8	206.7	228.5	273.0	316.1	320.7	273.7	220.5	179.7	155.0	139.8
57.5°	172.5	181.0	202.6	238.0	268.2	265.9	221.4	175.4	147.9	129.6	118.5
60°	156.7	165.1	184.1	214.4	237.3	229.3	188.4	151.4	127.8	114.4	105.6
62.5°	141.9	148.5	166.3	188.5	204.9	195.8	161.1	130.4	111.7	100.4	93.4
65°	120.6	126.0	140.1	151.8	160.9	152.1	123.3	102.0	88.5	80.6	75.8
67.5°	100.4	103.7	112.7	116.9	123.4	113.7	92.7	78.4	70.8	64.1	60.7
70°	87.6	90.0	94.8	98.2	99.9	90.0	74.4	64.0	57.6	52.8	50.7
72.5°	74.8	77.0	77.9	80.7	79.8	70.6	59.8	51.5	46.9	43.7	41.0
75°	57.2	58.1	57.2	56.0	53.6	47.1	39.7	35.5	32.1	30.6	29.6
77.5°	41.7	41.3	40.1	38.3	34.1	30.0	26.0	24.6	23.2	22.3	22.0
80°	32.1	31.3	30.2	27.3	23.7	20.9	20.0	19.0	18.4	17.4	17.3
82.5°	23.9	23.4	21.5	19.2	16.6	15.2	14.5	14.1	13.5	13.0	13.0
85°	12.7	12.1	10.0	8.7	8.4	8.0	7.8	7.8	7.0	6.8	6.8
87.5°	4.6	4.1	4.3	4.2	4.6	4.8	5.4	5.6	5.9	6.2	6.0
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°	443.7	443.7	443.7	443.7	443.7	443.7	443.7
2.5°	468.1	468.1	468.6	470.9	471.2	473.2	472.6
5°	514.4	518.0	519.3	525.1	528.4	529.9	526.9
7.5°	571.0	581.2	586.0	592.1	597.3	598.9	594.8
10°	612.4	623.1	631.9	637.5	642.6	646.0	650.4
12.5°	652.3	665.4	673.9	681.7	687.0	691.3	692.0
15°	695.8	715.5	730.5	741.6	747.1	749.9	748.8
17.5°	739.6	757.9	768.6	779.8	787.4	787.8	788.1
20°	764.3	782.2	794.6	802.9	811.5	811.1	813.0
22.5°	780.9	795.0	804.5	810.5	813.4	812.0	812.4
25°	788.6	792.9	791.2	781.5	778.9	770.1	771.6
27.5°	748.7	729.0	708.5	682.2	661.5	644.9	645.7
30°	694.5	659.5	619.6	586.2	556.2	547.8	529.9
32.5°	618.6	566.2	519.5	488.3	462.6	455.6	440.0
35°	490.1	439.1	391.1	362.2	350.8	334.8	334.7
37.5°	380.9	336.1	310.7	289.0	277.7	268.0	267.1
40°	320.4	285.5	266.3	250.7	239.5	232.3	230.6
42.5°	278.2	250.0	232.0	222.3	213.7	209.9	207.2
45°	227.1	208.1	195.7	186.9	183.0	180.1	178.6
47.5°	190.0	177.3	168.8	162.9	159.7	156.7	157.5
50°	169.8	159.4	153.1	147.6	145.1	143.0	143.2
52.5°	153.5	144.1	139.1	135.1	132.1	130.5	129.9
55°	130.3	124.4	119.3	116.4	114.7	112.7	112.1
57.5°	111.1	106.6	102.4	99.2	98.7	96.8	97.0
60°	98.4	94.6	91.2	89.4	88.1	86.4	87.0
62.5°	87.9	84.7	81.6	80.2	78.8	77.6	77.9
65°	72.0	69.0	67.0	66.3	65.7	65.1	64.6
67.5°	57.4	55.5	54.3	52.7	51.5	51.4	50.8
70°	48.3	45.7	43.7	41.6	41.0	40.8	41.0
72.5°	38.6	37.1	36.5	35.5	35.4	34.9	35.2
75°	29.0	28.5	28.1	27.3	27.3	27.3	27.3
77.5°	21.4	21.1	20.9	20.7	20.5	20.2	20.2
80°	16.7	16.6	16.1	16.1	16.0	16.1	16.0
82.5°	12.6	12.6	12.2	12.2	12.0	11.9	12.0
85°	6.4	6.3	6.7	6.3	6.4	6.1	6.4
87.5°	6.2	6.4	6.3	6.4	6.3	6.7	6.4
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)