

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: P331774-830

Luminaire Tested: **S122RDIW-S290D970U830-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331774-830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D970U830-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4232.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

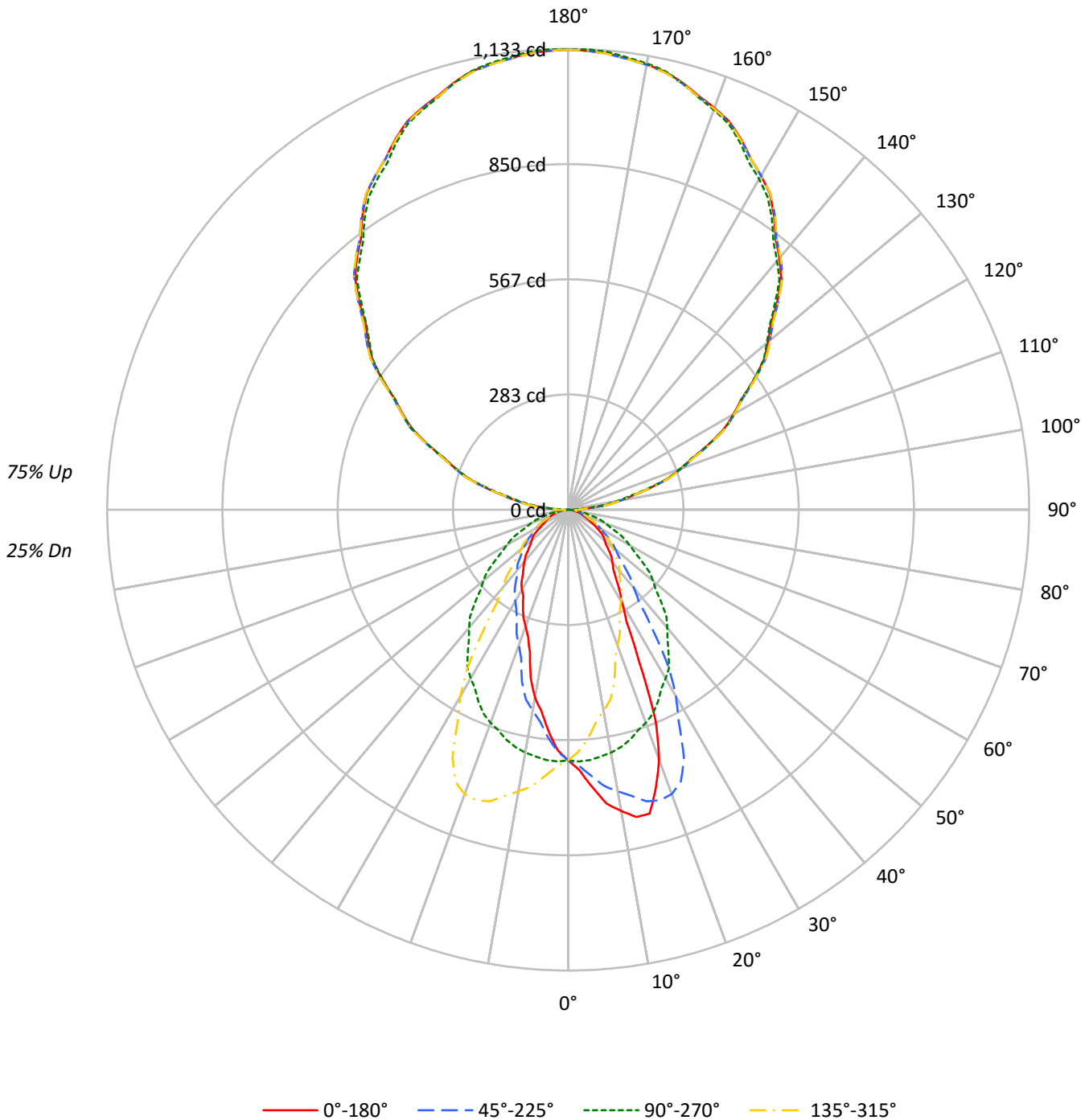
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33
1	93	89	85	82	82	79	76	73	61	59	58	45	44	43	30	29	29
2	85	78	72	67	75	70	65	61	54	51	48	40	38	36	27	26	25
3	77	69	62	57	69	62	56	51	48	44	41	36	33	31	24	23	22
4	71	61	54	48	63	55	49	44	43	39	35	32	29	27	22	20	19
5	65	54	47	41	58	49	42	38	39	34	31	29	26	24	20	18	17
6	60	49	41	36	53	44	37	33	35	30	27	26	23	21	18	16	15
7	56	44	37	31	49	40	33	29	32	27	24	24	21	19	17	15	14
8	52	40	33	28	46	36	30	26	29	24	21	22	19	17	16	14	12
9	48	36	29	25	43	33	27	23	26	22	19	20	17	15	14	13	11
10	45	33	27	22	40	30	24	20	24	20	17	19	16	14	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.4
10°-20°	162.8	3.8
20°-30°	209.7	5.0
30°-40°	199.3	4.7
40°-50°	170.7	4.0
50°-60°	130.0	3.1
60°-70°	82.2	1.9
70°-80°	41.0	1.0
80°-90°	15.2	0.4
90°-100°	71.7	1.7
100°-110°	222.6	5.3
110°-120°	380.6	9.0
120°-130°	500.5	11.8
130°-140°	561.7	13.3
140°-150°	550.8	13.0
150°-160°	462.0	10.9
160°-170°	306.4	7.2
170°-180°	107.1	2.5
0°-30°	430.9	10.2
0°-40°	630.2	14.9
0°-60°	931.0	22.0
0°-90°	1069.4	25.3
90°-120°	674.9	15.9
90°-150°	2287.8	54.1
90°-180°	3163.0	74.7
0°-180°	4232.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	32	1	32	1	32	14
95°	59	50	59	50	59	66
105°	212	205	212	205	212	223
115°	382	382	382	382	382	377
125°	558	556	558	556	558	497
135°	728	719	728	719	728	560
145°	882	872	882	872	882	551
155°	1005	998	1005	998	1005	463
165°	1086	1085	1086	1085	1086	306
175°	1126	1129	1126	1129	1126	107
180°	1131	1131	1131	1131	1131	



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	9.2	9.3	9.3	9.2	9.2	9.2	9.3	9.6	9.5	9.8	8.7
90°	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5	33.0	33.4	28.7
92.5°	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5	30.4	30.3	29.2
95°	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1	61.1	61.1	60.7
97.5°	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7	102.7	102.7	101.9
100°	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8	131.8	131.8	131.1
102.5°	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4	163.2	163.1	162.2
105°	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8	210.5	210.0	209.6
107.5°	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1	261.9	261.7	261.7
110°	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9	296.9	296.9	296.9



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8	332.2	332.8	333.0
115°	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2	385.5	385.7	386.1
117.5°	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0	437.5	438.0	439.2
120°	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6	471.6	471.6	473.3
122.5°	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3	507.7	508.2	509.4
125°	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1	560.7	561.4	561.9
127.5°	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3	612.1	612.9	613.7
130°	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4	646.9	647.2	647.7
132.5°	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5	681.5	682.4	682.3
135°	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8	731.0	731.2	730.8
137.5°	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0	779.2	779.4	778.8
140°	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4	811.4	811.4	810.4
142.5°	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8	840.7	840.5	839.8
145°	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4	885.1	885.0	883.7
147.5°	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4	924.0	923.5	922.7
150°	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2	948.6	948.0	947.2
152.5°	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0	973.2	972.4	971.4
155°	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5	1004.4	1003.3	1002.7
157.5°	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5	1033.0	1031.6	1031.2
160°	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7	1050.5	1049.1	1049.0
162.5°	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3	1065.9	1064.4	1064.2
165°	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5	1086.0	1084.5	1084.5
167.5°	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1	1102.6	1101.1	1101.2
170°	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2	1111.7	1110.3	1110.5
172.5°	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1	1118.6	1117.1	1117.4
175°	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6	1126.1	1124.5	1125.0
177.5°	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0	1129.4
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	7.7	7.0	6.0	5.2	4.8	4.4	4.8	5.2	5.0	5.0	5.2
90°	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9	3.5	6.0	8.6
92.5°	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0	18.9	20.7	22.6
95°	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7	51.7	53.9	56.0
97.5°	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7	92.6	94.4	96.3
100°	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2	122.9	124.6	126.3
102.5°	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4	154.7	156.0	157.4
105°	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3	205.9	206.5	207.2
107.5°	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6	258.5	259.4	260.3
110°	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2	292.5	293.7	295.0



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8	329.1	330.4	331.7
115°	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8	383.1	384.4	385.7
117.5°	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7	437.4	439.1	440.8
120°	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	473.3	475.0	476.7
122.5°	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4	506.5	508.5	510.6
125°	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6	557.5	559.4	561.4
127.5°	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5	607.8	610.3	612.7
130°	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8	639.5	642.2	645.1
132.5°	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8	674.1	676.4	678.6
135°	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9	721.2	723.5	725.9
137.5°	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3	770.2	772.1	774.0
140°	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1	800.0	801.9	803.8
142.5°	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7	830.6	832.5	834.3
145°	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5	874.0	875.5	877.0
147.5°	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7	913.5	915.3	917.0
150°	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4	939.7	940.9	942.3
152.5°	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1	963.4	964.7	965.9
155°	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6	998.2	998.9	999.6
157.5°	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9	1028.4	1028.8	1029.3
160°	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3	1046.7	1047.2	1047.5
162.5°	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1	1063.2	1063.3	1063.4
165°	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4	1085.2	1085.1	1084.8
167.5°	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2	1103.5	1102.9	1102.2
170°	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1	1113.4	1112.9	1112.2
172.5°	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0	1120.3	1119.6	1119.1
175°	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4	1128.7	1128.1	1127.5
177.5°	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8	1132.3	1131.8	1131.2
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	5.5	6.0	6.6	7.5	8.5	9.2	9.1	9.0	8.9	8.8	8.6
90°	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5	32.1	31.7	31.6
92.5°	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5	30.6	30.7	30.7
95°	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1	61.1	61.1	60.9
97.5°	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7	102.7	102.7	102.7
100°	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8	131.8	131.8	131.7
102.5°	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4	163.5	163.7	163.7
105°	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8	211.3	211.7	212.0
107.5°	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1	262.3	262.4	262.0
110°	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.9	296.6



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8	331.3	330.7	330.3
115°	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2	385.0	384.8	384.4
117.5°	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0	436.5	435.9	435.4
120°	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6	471.6	471.6	471.3
122.5°	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3	506.7	506.2	505.8
125°	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1	559.4	558.8	558.4
127.5°	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3	610.6	609.8	609.1
130°	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4	646.0	645.5	644.9
132.5°	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5	679.6	678.6	677.9
135°	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8	730.7	730.4	730.0
137.5°	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0	778.9	778.7	778.2
140°	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4	811.4	811.4	811.1
142.5°	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8	841.0	841.1	840.8
145°	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4	885.6	885.8	885.5
147.5°	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4	924.9	925.4	925.2
150°	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2	949.9	950.6	950.6
152.5°	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0	974.9	975.6	975.6
155°	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5	1006.5	1007.6	1007.8
157.5°	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5	1035.9	1037.4	1037.6
160°	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7	1053.0	1054.2	1054.5
162.5°	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3	1068.7	1070.3	1070.4
165°	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5	1088.9	1090.4	1090.6
167.5°	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1	1105.6	1107.0	1107.2
170°	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2	1114.7	1116.3	1116.3
172.5°	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1	1121.6	1123.0	1123.2
175°	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6	1129.1	1130.5	1130.7
177.5°	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	8.6	8.5	8.7	8.6	8.7	8.5	8.6	8.6	8.8	8.9	9.0
90°	31.9	32.0	32.2	32.4	32.2	32.0	31.9	31.6	31.7	32.1	32.5
92.5°	30.8	30.8	30.9	30.9	30.9	30.8	30.8	30.7	30.7	30.6	30.5
95°	60.4	60.0	59.6	59.2	59.6	60.0	60.4	60.9	61.1	61.1	61.1
97.5°	102.6	102.6	102.5	102.5	102.5	102.6	102.6	102.7	102.7	102.7	102.7
100°	131.4	131.2	131.0	130.8	131.0	131.2	131.4	131.7	131.8	131.8	131.8
102.5°	163.5	163.2	163.1	162.9	163.1	163.2	163.5	163.7	163.7	163.5	163.4
105°	212.0	212.0	212.0	212.0	212.0	212.0	212.0	212.0	211.7	211.3	210.8
107.5°	261.1	260.0	259.1	258.2	259.1	260.0	261.1	262.0	262.4	262.3	262.1
110°	296.0	295.3	294.6	294.1	294.6	295.3	296.0	296.6	296.9	296.9	296.9



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	329.8	329.3	328.9	328.4	328.9	329.3	329.8	330.3	330.7	331.3	331.8
115°	383.8	383.1	382.5	381.8	382.5	383.1	383.8	384.4	384.8	385.0	385.2
117.5°	434.8	434.1	433.5	432.8	433.5	434.1	434.8	435.4	435.9	436.5	437.0
120°	470.6	470.0	469.4	468.7	469.4	470.0	470.6	471.3	471.6	471.6	471.6
122.5°	505.3	504.8	504.4	503.9	504.4	504.8	505.3	505.8	506.2	506.7	507.3
125°	558.2	558.0	557.7	557.5	557.7	558.0	558.2	558.4	558.8	559.4	560.1
127.5°	608.4	607.8	607.1	606.4	607.1	607.8	608.4	609.1	609.8	610.6	611.3
130°	644.0	643.2	642.3	641.5	642.3	643.2	644.0	644.9	645.5	646.0	646.4
132.5°	677.2	676.5	675.8	675.1	675.8	676.5	677.2	677.9	678.6	679.6	680.5
135°	729.3	728.7	728.1	727.5	728.1	728.7	729.3	730.0	730.4	730.7	730.8
137.5°	777.3	776.5	775.6	774.8	775.6	776.5	777.3	778.2	778.7	778.9	779.0
140°	810.2	809.4	808.5	807.7	808.5	809.4	810.2	811.1	811.4	811.4	811.4
142.5°	840.0	839.1	838.3	837.4	838.3	839.1	840.0	840.8	841.1	841.0	840.8
145°	884.7	883.8	883.0	882.1	883.0	883.8	884.7	885.5	885.8	885.6	885.4
147.5°	924.4	923.6	922.8	922.0	922.8	923.6	924.4	925.2	925.4	924.9	924.4
150°	949.9	949.2	948.6	948.0	948.6	949.2	949.9	950.6	950.6	949.9	949.2
152.5°	974.9	974.0	973.2	972.4	973.2	974.0	974.9	975.6	975.6	974.9	974.0
155°	1007.2	1006.5	1005.9	1005.2	1005.9	1006.5	1007.2	1007.8	1007.6	1006.5	1005.5
157.5°	1036.6	1035.6	1034.5	1033.5	1034.5	1035.6	1036.6	1037.6	1037.4	1035.9	1034.5
160°	1053.7	1052.8	1052.0	1051.1	1052.0	1052.8	1053.7	1054.5	1054.2	1053.0	1051.7
162.5°	1069.4	1068.4	1067.3	1066.4	1067.3	1068.4	1069.4	1070.4	1070.3	1068.7	1067.3
165°	1089.6	1088.5	1087.5	1086.4	1087.5	1088.5	1089.6	1090.6	1090.4	1088.9	1087.5
167.5°	1106.2	1105.0	1103.9	1102.9	1103.9	1105.0	1106.2	1107.2	1107.0	1105.6	1104.1
170°	1115.0	1113.8	1112.5	1111.3	1112.5	1113.8	1115.0	1116.3	1116.3	1114.7	1113.2
172.5°	1121.9	1120.7	1119.4	1118.1	1119.4	1120.7	1121.9	1123.2	1123.0	1121.6	1120.1
175°	1129.4	1128.1	1126.8	1125.6	1126.8	1128.1	1129.4	1130.7	1130.5	1129.1	1127.6
177.5°	1132.0	1131.1	1130.0	1129.0	1130.0	1131.1	1132.0	1133.0	1133.0	1132.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	9.1	9.2	8.5	7.5	6.6	6.0	5.5	5.2	5.0	5.0	5.2
90°	33.0	33.4	28.7	24.0	19.4	14.7	11.1	8.6	6.0	3.5	0.9
92.5°	30.4	30.3	29.2	28.2	27.1	25.9	24.5	22.6	20.7	18.9	17.0
95°	61.1	61.1	60.7	60.2	59.9	59.4	58.2	56.0	53.9	51.7	49.7
97.5°	102.7	102.7	101.9	101.1	100.3	99.5	98.1	96.3	94.4	92.6	90.7
100°	131.8	131.8	131.1	130.4	129.8	129.2	128.0	126.3	124.6	122.9	121.2
102.5°	163.2	163.1	162.2	161.5	160.6	159.9	158.7	157.4	156.0	154.7	153.4
105°	210.5	210.0	209.6	209.2	208.8	208.3	207.8	207.2	206.5	205.9	205.3
107.5°	261.9	261.7	261.7	261.7	261.7	261.7	261.3	260.3	259.4	258.5	257.6
110°	296.9	296.9	296.9	296.9	296.9	296.9	296.2	295.0	293.7	292.5	291.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	332.2	332.8	333.0	333.1	333.3	333.5	332.9	331.7	330.4	329.1	327.8
115°	385.5	385.7	386.1	386.5	386.9	387.4	386.9	385.7	384.4	383.1	381.8
117.5°	437.5	438.0	439.2	440.4	441.6	442.7	442.5	440.8	439.1	437.4	435.7
120°	471.6	471.6	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6
122.5°	507.7	508.2	509.4	510.7	511.8	513.0	512.6	510.6	508.5	506.5	504.4
125°	560.7	561.4	561.9	562.6	563.3	563.9	563.3	561.4	559.4	557.5	555.6
127.5°	612.1	612.9	613.7	614.4	615.2	616.0	615.1	612.7	610.3	607.8	605.5
130°	646.9	647.2	647.7	648.1	648.6	648.9	647.8	645.1	642.2	639.5	636.8
132.5°	681.5	682.4	682.3	682.2	682.1	682.0	680.9	678.6	676.4	674.1	671.8
135°	731.0	731.2	730.8	730.4	730.0	729.5	728.2	725.9	723.5	721.2	718.9
137.5°	779.2	779.4	778.8	778.3	777.7	777.2	775.9	774.0	772.1	770.2	768.3
140°	811.4	811.4	810.4	809.4	808.3	807.2	805.7	803.8	801.9	800.0	798.1
142.5°	840.7	840.5	839.8	839.1	838.3	837.6	836.3	834.3	832.5	830.6	828.7
145°	885.1	885.0	883.7	882.4	881.2	879.9	878.5	877.0	875.5	874.0	872.5
147.5°	924.0	923.5	922.7	921.8	921.0	920.1	918.8	917.0	915.3	913.5	911.7
150°	948.6	948.0	947.2	946.3	945.5	944.6	943.5	942.3	940.9	939.7	938.4
152.5°	973.2	972.4	971.4	970.3	969.4	968.4	967.2	965.9	964.7	963.4	962.1
155°	1004.4	1003.3	1002.7	1002.1	1001.5	1000.8	1000.1	999.6	998.9	998.2	997.6
157.5°	1033.0	1031.6	1031.2	1030.9	1030.5	1030.1	1029.6	1029.3	1028.8	1028.4	1027.9
160°	1050.5	1049.1	1049.0	1048.8	1048.6	1048.3	1048.0	1047.5	1047.2	1046.7	1046.3
162.5°	1065.9	1064.4	1064.2	1064.0	1063.8	1063.6	1063.5	1063.4	1063.3	1063.2	1063.1
165°	1086.0	1084.5	1084.5	1084.5	1084.5	1084.5	1084.6	1084.8	1085.1	1085.2	1085.4
167.5°	1102.6	1101.1	1101.2	1101.2	1101.3	1101.3	1101.6	1102.2	1102.9	1103.5	1104.2
170°	1111.7	1110.3	1110.5	1110.7	1110.9	1111.2	1111.5	1112.2	1112.9	1113.4	1114.1
172.5°	1118.6	1117.1	1117.4	1117.6	1117.8	1117.9	1118.4	1119.1	1119.6	1120.3	1121.0
175°	1126.1	1124.5	1125.0	1125.4	1125.9	1126.2	1126.8	1127.5	1128.1	1128.7	1129.4
177.5°	1130.0	1129.0	1129.4	1129.6	1130.0	1130.3	1130.8	1131.2	1131.8	1132.3	1132.8
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	4.8	4.4	4.8	5.2	6.0	7.0	7.7	8.7	9.8	9.5	9.6
90°	3.5	6.0	8.6	11.1	14.7	19.4	24.0	28.7	33.4	33.0	32.5
92.5°	18.9	20.7	22.6	24.5	25.9	27.1	28.2	29.2	30.3	30.4	30.5
95°	51.7	53.9	56.0	58.2	59.4	59.9	60.2	60.7	61.1	61.1	61.1
97.5°	92.6	94.4	96.3	98.1	99.5	100.3	101.1	101.9	102.7	102.7	102.7
100°	122.9	124.6	126.3	128.0	129.2	129.8	130.4	131.1	131.8	131.8	131.8
102.5°	154.7	156.0	157.4	158.7	159.9	160.6	161.5	162.2	163.1	163.2	163.4
105°	205.9	206.5	207.2	207.8	208.3	208.8	209.2	209.6	210.0	210.5	210.8
107.5°	258.5	259.4	260.3	261.3	261.7	261.7	261.7	261.7	261.7	261.9	262.1
110°	292.5	293.7	295.0	296.2	296.9	296.9	296.9	296.9	296.9	296.9	296.9



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	329.1	330.4	331.7	332.9	333.5	333.3	333.1	333.0	332.8	332.2	331.8
115°	383.1	384.4	385.7	386.9	387.4	386.9	386.5	386.1	385.7	385.5	385.2
117.5°	437.4	439.1	440.8	442.5	442.7	441.6	440.4	439.2	438.0	437.5	437.0
120°	473.3	475.0	476.7	478.4	478.4	476.7	475.0	473.3	471.6	471.6	471.6
122.5°	506.5	508.5	510.6	512.6	513.0	511.8	510.7	509.4	508.2	507.7	507.3
125°	557.5	559.4	561.4	563.3	563.9	563.3	562.6	561.9	561.4	560.7	560.1
127.5°	607.8	610.3	612.7	615.1	616.0	615.2	614.4	613.7	612.9	612.1	611.3
130°	639.5	642.2	645.1	647.8	648.9	648.6	648.1	647.7	647.2	646.9	646.4
132.5°	674.1	676.4	678.6	680.9	682.0	682.1	682.2	682.3	682.4	681.5	680.5
135°	721.2	723.5	725.9	728.2	729.5	730.0	730.4	730.8	731.2	731.0	730.8
137.5°	770.2	772.1	774.0	775.9	777.2	777.7	778.3	778.8	779.4	779.2	779.0
140°	800.0	801.9	803.8	805.7	807.2	808.3	809.4	810.4	811.4	811.4	811.4
142.5°	830.6	832.5	834.3	836.3	837.6	838.3	839.1	839.8	840.5	840.7	840.8
145°	874.0	875.5	877.0	878.5	879.9	881.2	882.4	883.7	885.0	885.1	885.4
147.5°	913.5	915.3	917.0	918.8	920.1	921.0	921.8	922.7	923.5	924.0	924.4
150°	939.7	940.9	942.3	943.5	944.6	945.5	946.3	947.2	948.0	948.6	949.2
152.5°	963.4	964.7	965.9	967.2	968.4	969.4	970.3	971.4	972.4	973.2	974.0
155°	998.2	998.9	999.6	1000.1	1000.8	1001.5	1002.1	1002.7	1003.3	1004.4	1005.5
157.5°	1028.4	1028.8	1029.3	1029.6	1030.1	1030.5	1030.9	1031.2	1031.6	1033.0	1034.5
160°	1046.7	1047.2	1047.5	1048.0	1048.3	1048.6	1048.8	1049.0	1049.1	1050.5	1051.7
162.5°	1063.2	1063.3	1063.4	1063.5	1063.6	1063.8	1064.0	1064.2	1064.4	1065.9	1067.3
165°	1085.2	1085.1	1084.8	1084.6	1084.5	1084.5	1084.5	1084.5	1084.5	1086.0	1087.5
167.5°	1103.5	1102.9	1102.2	1101.6	1101.3	1101.3	1101.2	1101.2	1101.1	1102.6	1104.1
170°	1113.4	1112.9	1112.2	1111.5	1111.2	1110.9	1110.7	1110.5	1110.3	1111.7	1113.2
172.5°	1120.3	1119.6	1119.1	1118.4	1117.9	1117.8	1117.6	1117.4	1117.1	1118.6	1120.1
175°	1128.7	1128.1	1127.5	1126.8	1126.2	1125.9	1125.4	1125.0	1124.5	1126.1	1127.6
177.5°	1132.3	1131.8	1131.2	1130.8	1130.3	1130.0	1129.6	1129.4	1129.0	1130.0	1131.1
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	9.3	9.2	9.2	9.2	9.3	9.3	9.2
90°	32.1	31.7	31.6	31.9	32.0	32.2	32.4
92.5°	30.6	30.7	30.7	30.8	30.8	30.9	30.9
95°	61.1	61.1	60.9	60.4	60.0	59.6	59.2
97.5°	102.7	102.7	102.7	102.6	102.6	102.5	102.5
100°	131.8	131.8	131.7	131.4	131.2	131.0	130.8
102.5°	163.5	163.7	163.7	163.5	163.2	163.1	162.9
105°	211.3	211.7	212.0	212.0	212.0	212.0	212.0
107.5°	262.3	262.4	262.0	261.1	260.0	259.1	258.2
110°	296.9	296.9	296.6	296.0	295.3	294.6	294.1



TEST NUMBER: P331774-830

CATALOG NUMBER: S122RDIW-S290D970U830-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	331.3	330.7	330.3	329.8	329.3	328.9	328.4
115°	385.0	384.8	384.4	383.8	383.1	382.5	381.8
117.5°	436.5	435.9	435.4	434.8	434.1	433.5	432.8
120°	471.6	471.6	471.3	470.6	470.0	469.4	468.7
122.5°	506.7	506.2	505.8	505.3	504.8	504.4	503.9
125°	559.4	558.8	558.4	558.2	558.0	557.7	557.5
127.5°	610.6	609.8	609.1	608.4	607.8	607.1	606.4
130°	646.0	645.5	644.9	644.0	643.2	642.3	641.5
132.5°	679.6	678.6	677.9	677.2	676.5	675.8	675.1
135°	730.7	730.4	730.0	729.3	728.7	728.1	727.5
137.5°	778.9	778.7	778.2	777.3	776.5	775.6	774.8
140°	811.4	811.4	811.1	810.2	809.4	808.5	807.7
142.5°	841.0	841.1	840.8	840.0	839.1	838.3	837.4
145°	885.6	885.8	885.5	884.7	883.8	883.0	882.1
147.5°	924.9	925.4	925.2	924.4	923.6	922.8	922.0
150°	949.9	950.6	950.6	949.9	949.2	948.6	948.0
152.5°	974.9	975.6	975.6	974.9	974.0	973.2	972.4
155°	1006.5	1007.6	1007.8	1007.2	1006.5	1005.9	1005.2
157.5°	1035.9	1037.4	1037.6	1036.6	1035.6	1034.5	1033.5
160°	1053.0	1054.2	1054.5	1053.7	1052.8	1052.0	1051.1
162.5°	1068.7	1070.3	1070.4	1069.4	1068.4	1067.3	1066.4
165°	1088.9	1090.4	1090.6	1089.6	1088.5	1087.5	1086.4
167.5°	1105.6	1107.0	1107.2	1106.2	1105.0	1103.9	1102.9
170°	1114.7	1116.3	1116.3	1115.0	1113.8	1112.5	1111.3
172.5°	1121.6	1123.0	1123.2	1121.9	1120.7	1119.4	1118.1
175°	1129.1	1130.5	1130.7	1129.4	1128.1	1126.8	1125.6
177.5°	1132.0	1133.0	1133.0	1132.0	1131.1	1130.0	1129.0
180°	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2	1131.2

(END OF REPORT)