

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: P331773-930

Luminaire Tested: **S122RDIW-S290D970U930-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331773-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D970U930-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 970 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.9 lumens
Efficiency: N/A
Efficacy: 107.3 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

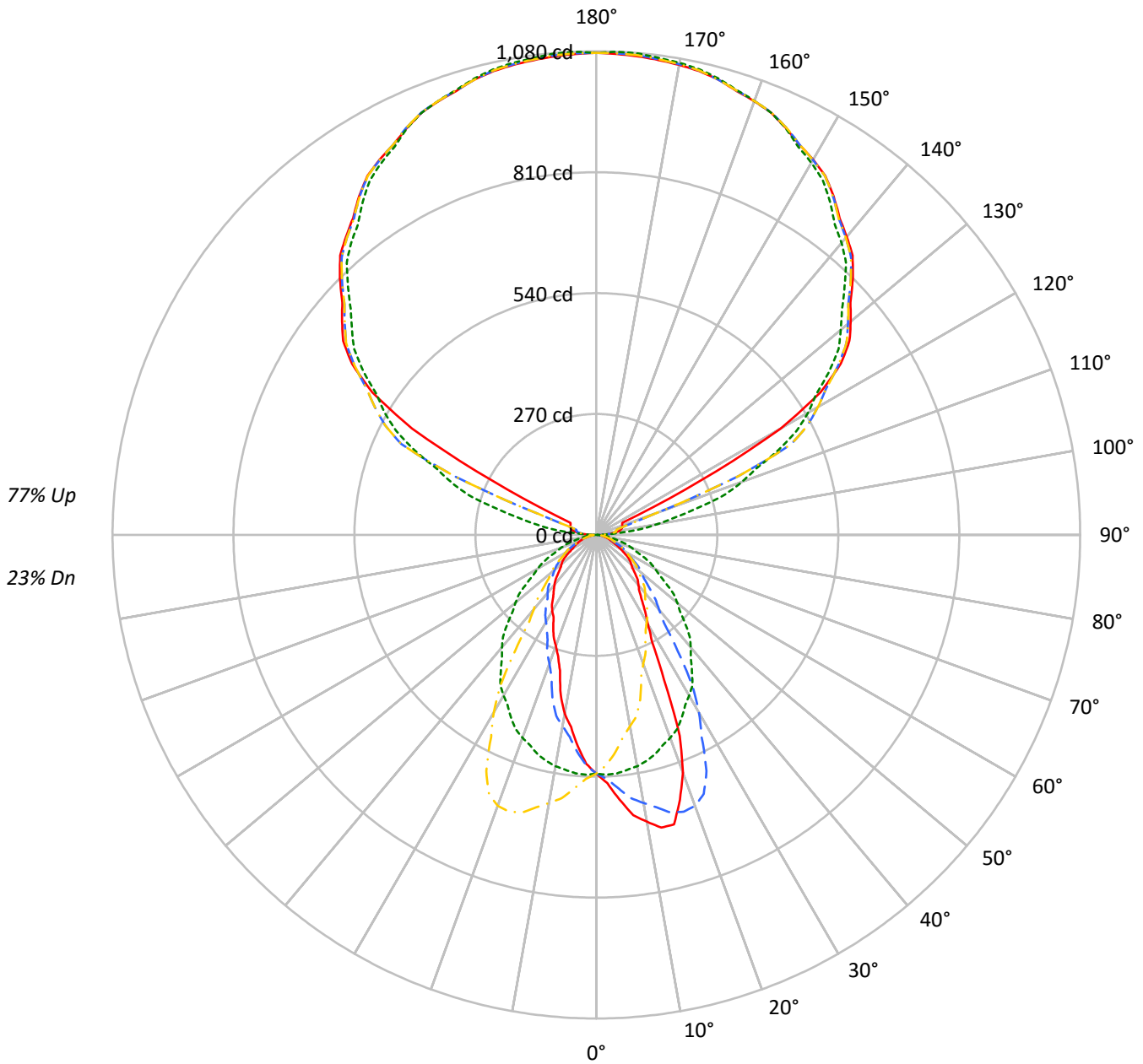
Input Watts (W): 38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

Luminous Intensity Polar Plot



— 0°-180° - - - 45°-225° - - - 90°-270° - - - 135°-315°



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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	89	89	89	89	68	68	68	49	49	49	31	31	31	23
1	92	88	84	81	82	78	75	73	60	58	56	43	42	41	28	27	27	20
2	84	77	72	67	74	69	64	60	53	50	47	38	37	35	25	24	23	17
3	77	68	61	56	68	61	55	51	47	43	40	34	32	30	22	21	20	15
4	70	60	53	48	62	54	48	43	42	38	34	31	28	26	20	19	18	13
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	18	17	16	12
6	60	48	41	35	53	43	37	32	34	29	26	25	22	20	17	15	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	12	10
8	51	40	32	27	45	36	29	25	28	24	20	21	18	16	14	13	11	9
9	47	36	29	24	42	32	26	22	26	21	18	19	16	14	13	12	10	8
10	44	33	26	22	39	30	24	20	24	19	16	18	15	13	12	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8606	8606	8606	8606
5°	9611	8660	7679	8660
10°	10663	8599	6655	8599
15°	11188	8473	5244	8473
20°	9699	8285	4538	8285
25°	6360	8031	4051	8031
30°	4282	7720	3667	7720
35°	3467	7330	3307	7330
40°	3084	6905	3060	6905
45°	2790	6405	2731	6405
50°	2539	5913	2532	5913
55°	2387	5362	2356	5362
60°	1999	4863	1973	4863
65°	1685	4413	1910	4413
70°	1553	3942	1803	3942
75°	1454	3431	1666	3431
80°	1339	2827	1478	2827
85°	1241	2242	1297	2242



TEST NUMBER: P331773-930

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	1.2
10°-20°	140.8	3.5
20°-30°	181.4	4.4
30°-40°	172.4	4.2
40°-50°	147.7	3.6
50°-60°	112.5	2.8
60°-70°	71.1	1.7
70°-80°	35.5	0.9
80°-90°	11.9	0.3
90°-100°	35.9	0.9
100°-110°	131.7	3.2
110°-120°	352.0	8.6
120°-130°	581.1	14.2
130°-140°	618.0	15.2
140°-150°	574.4	14.1
150°-160°	461.8	11.3
160°-170°	297.6	7.3
170°-180°	102.4	2.5
0°-30°	372.7	9.1
0°-40°	545.1	13.4
0°-60°	805.3	19.7
0°-90°	923.8	22.6
90°-120°	519.7	12.7
90°-150°	2293.2	56.2
90°-180°	3155.0	77.3
0°-180°	4078.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	533	533	533	533	533	
5°	593	534	474	534	593	59
15°	669	507	314	507	669	181
25°	357	451	227	451	357	169
35°	176	372	168	372	176	113
45°	122	280	120	280	122	95
55°	85	190	84	190	85	74
65°	44	116	50	116	44	45
75°	23	55	27	55	23	25
85°	7	12	7	12	7	8
90°	21	1	21	1	21	10
95°	34	51	34	51	34	31
105°	59	237	59	237	59	62
115°	64	448	64	448	64	160
125°	666	633	666	633	666	576
135°	809	784	809	784	809	624
145°	923	909	923	909	923	577
155°	1002	1001	1002	1001	1002	462
165°	1052	1055	1052	1055	1052	297
175°	1073	1079	1073	1079	1073	102
180°	1077	1077	1077	1077	1077	



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	554.6	555.1	555.5	554.5	554.5	553.6	551.6	550.2	546.0	545.4	545.4
5°	593.0	592.6	593.4	590.9	587.7	586.9	583.3	578.7	573.9	568.6	567.4
7.5°	631.1	630.6	629.1	628.7	626.1	620.5	614.9	608.9	600.9	593.0	589.1
10°	650.4	656.6	652.8	646.4	647.6	639.0	634.3	626.3	619.6	608.0	605.4
12.5°	669.4	671.8	670.6	666.9	665.3	659.3	653.0	646.0	633.7	623.3	614.2
15°	669.3	672.8	673.8	672.6	673.5	673.2	669.8	664.1	653.4	641.9	631.9
17.5°	619.9	622.3	628.4	632.5	637.7	648.7	654.1	656.2	654.6	648.0	641.0
20°	564.5	560.4	577.5	586.1	593.5	612.0	628.0	634.1	643.9	643.8	641.9
22.5°	485.9	486.9	503.0	513.4	535.0	553.6	571.7	594.7	613.7	626.2	633.6
25°	357.0	364.1	380.2	394.3	418.3	452.8	484.1	520.4	554.6	581.7	607.5
27.5°	268.2	268.7	281.4	294.5	308.8	337.0	376.4	419.7	468.6	508.9	555.2
30°	229.7	228.5	233.9	241.9	254.1	276.0	305.6	348.1	396.9	457.6	511.7
32.5°	202.4	202.4	206.5	212.4	222.5	237.3	257.6	292.2	338.2	397.9	461.3
35°	175.9	175.8	178.7	183.0	187.2	196.7	210.6	228.7	260.4	316.1	380.9
37.5°	156.9	157.8	159.2	161.9	166.6	171.9	180.2	192.4	214.9	247.9	302.4
40°	146.3	146.7	148.7	150.9	153.7	157.8	164.6	174.5	190.9	217.2	257.1
42.5°	136.6	136.9	138.4	140.4	142.6	146.7	152.4	160.9	174.2	194.7	227.6
45°	122.2	122.2	123.5	124.4	126.9	130.5	135.2	142.3	151.5	166.6	188.5
47.5°	108.8	108.8	109.7	111.3	112.8	115.7	120.3	126.0	132.7	144.5	163.1
50°	101.1	101.3	101.8	103.1	104.1	106.6	110.2	115.2	122.2	131.3	146.8
52.5°	94.9	94.8	95.5	96.0	96.7	98.5	101.2	105.6	111.9	119.8	132.6
55°	84.8	84.1	85.2	86.1	86.7	87.4	88.9	91.6	97.0	103.7	113.3
57.5°	72.2	71.9	72.7	73.5	75.3	77.3	78.6	80.3	83.1	87.9	97.4
60°	61.9	61.9	63.5	64.1	66.1	68.7	71.3	72.8	75.6	78.7	85.8
62.5°	52.7	52.8	53.6	54.1	55.3	58.5	62.1	65.4	68.0	71.0	75.7
65°	44.1	44.4	44.4	44.8	45.6	46.3	47.8	50.4	55.0	59.3	62.8
67.5°	37.4	37.5	37.7	38.0	38.2	39.0	39.6	40.8	41.8	45.8	50.2
70°	32.9	33.5	33.3	33.7	33.9	34.2	35.0	35.5	37.3	38.2	40.8
72.5°	28.8	29.2	29.2	29.4	29.9	30.0	30.6	31.1	32.2	32.9	34.4
75°	23.3	23.2	23.3	23.7	23.9	24.1	24.1	24.8	25.4	26.1	27.1
77.5°	18.0	18.2	18.2	18.2	18.3	18.6	18.5	18.8	19.4	19.8	20.2
80°	14.4	14.6	14.4	14.6	14.8	15.0	14.8	15.0	15.6	15.9	15.9
82.5°	11.2	11.3	11.3	11.3	11.4	11.4	11.7	11.7	12.1	12.1	12.2
85°	6.7	6.5	6.5	6.5	6.7	6.8	6.7	6.7	6.8	6.8	6.8
87.5°	6.6	6.7	6.6	6.5	6.4	6.4	6.1	6.1	5.8	5.8	5.4
90°	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3	16.5	15.6	14.2
92.5°	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0	18.5	18.1	17.4
95°	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1	31.2	30.4	29.2
97.5°	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1	41.3	40.7	37.8
100°	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2	45.8	44.4	41.5
102.5°	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2	47.5	45.7	40.3
105°	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4	49.4	47.5	44.8
107.5°	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6	64.6	66.5	123.2
110°	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7	119.0	136.3	186.4



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5	280.7	343.9	356.2
115°	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3	400.5	480.7	476.4
117.5°	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6	513.0	532.4	529.5
120°	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2	573.2	571.0	567.9
122.5°	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3	609.0	607.8	604.4
125°	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7	659.5	658.3	655.0
127.5°	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4	705.6	703.8	701.3
130°	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9	735.0	733.1	731.2
132.5°	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6	764.0	762.4	760.4
135°	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7	804.9	803.2	801.6
137.5°	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7	843.1	841.4	839.6
140°	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4	867.9	866.3	864.4
142.5°	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2	890.8	889.3	887.2
145°	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1	922.8	921.6	918.7
147.5°	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8	950.9	950.0	947.1
150°	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9	967.8	966.8	964.0
152.5°	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5	983.4	982.4	979.7
155°	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5	1004.4	1003.4	1001.4
157.5°	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2	1022.1	1020.8	1019.4
160°	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6	1032.5	1031.4	1030.5
162.5°	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2	1042.0	1040.8	1039.9
165°	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5	1052.0
167.5°	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7	1063.5	1062.3	1061.8
170°	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8	1068.5	1067.3	1067.0
172.5°	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4	1072.3	1071.1	1070.7
175°	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5	1076.3	1075.1	1074.7
177.5°	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0	1077.0	1076.0	1075.9
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	545.8	544.5	543.5	540.9	539.5	536.5	536.1	536.0	532.1	528.4	527.3
5°	564.5	561.5	557.1	551.9	546.5	541.0	537.3	534.3	526.8	519.8	515.8
7.5°	583.3	577.0	569.3	559.5	551.3	542.2	535.3	529.2	518.7	508.6	501.8
10°	597.5	587.1	576.9	563.4	552.8	542.4	532.8	524.5	512.7	499.3	489.8
12.5°	606.2	594.8	580.7	567.5	553.8	540.6	527.7	517.1	503.1	489.3	478.2
15°	618.0	605.8	588.7	569.8	552.3	535.0	520.2	506.9	488.8	472.2	458.5
17.5°	627.7	610.8	592.6	570.7	550.3	528.5	509.4	492.4	472.1	452.2	436.1
20°	630.8	614.1	593.0	571.1	547.1	521.3	500.8	482.2	460.6	438.9	420.4
22.5°	628.8	615.9	592.4	566.2	541.6	514.7	491.5	469.9	445.9	423.8	402.4
25°	615.8	611.3	589.1	560.6	532.5	501.2	474.3	450.8	423.4	399.7	376.3
27.5°	585.3	594.9	581.1	550.7	519.4	485.9	455.7	428.9	400.5	373.8	350.6
30°	556.0	578.0	572.1	543.9	508.9	476.0	442.1	414.1	383.8	356.3	333.4
32.5°	515.8	552.2	558.0	534.4	498.2	462.0	426.5	398.7	367.0	338.1	315.7
35°	451.8	506.3	531.3	516.3	480.0	440.9	404.3	371.9	340.0	311.5	289.3
37.5°	375.6	449.8	491.5	492.5	459.2	418.6	378.6	346.4	313.8	285.8	261.8
40°	326.1	406.5	460.8	472.8	444.7	400.8	360.4	327.6	295.8	268.3	240.8
42.5°	281.7	361.7	428.4	449.4	427.1	383.4	342.9	308.7	277.7	251.8	223.6
45°	227.8	297.8	371.3	408.7	396.3	356.0	313.2	280.5	251.5	229.1	202.0
47.5°	192.2	241.5	312.7	363.2	363.1	326.2	284.1	252.9	225.9	204.9	183.0
50°	171.9	214.8	275.0	332.4	337.2	306.3	266.3	235.4	210.2	188.2	170.6
52.5°	153.6	189.1	243.1	298.2	311.9	285.1	246.3	217.8	193.3	173.0	158.0
55°	129.8	157.3	198.4	249.8	270.6	251.7	217.2	190.5	170.7	153.7	140.7
57.5°	109.8	130.4	163.4	204.8	228.9	217.1	188.7	167.0	150.0	134.6	124.4
60°	97.3	114.1	142.0	176.7	203.3	195.0	170.7	150.6	136.2	122.8	113.2
62.5°	85.4	99.9	123.8	152.0	176.3	172.9	153.1	136.2	123.5	111.4	103.2
65°	68.7	79.2	98.0	120.0	139.7	141.3	127.0	115.5	104.3	94.7	87.4
67.5°	54.7	61.6	74.8	93.4	108.0	113.3	104.6	95.8	86.8	79.4	73.1
70°	46.1	51.7	61.3	76.3	89.8	95.4	90.3	83.5	75.7	69.6	64.2
72.5°	37.3	42.8	49.9	60.9	72.5	78.5	76.7	71.8	65.6	60.4	55.4
75°	28.1	29.8	34.7	42.1	51.1	56.3	57.6	55.0	50.0	46.1	43.1
77.5°	20.8	21.9	24.1	28.0	33.9	38.6	40.4	40.1	36.7	34.5	31.6
80°	16.6	17.2	18.3	20.0	24.5	29.1	30.4	30.4	28.0	27.1	24.3
82.5°	12.6	13.0	13.8	14.7	16.7	20.8	22.3	22.5	21.0	19.8	17.6
85°	7.3	7.0	7.4	8.0	8.3	9.5	11.7	12.1	11.7	10.2	9.6
87.5°	5.1	5.0	4.6	4.2	4.0	3.8	4.1	4.5	4.2	4.2	4.2
90°	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7	15.6	15.4	15.2
95°	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6	44.9	39.2	33.5
97.5°	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5	84.4	68.3	52.2
100°	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9	114.1	90.4	66.8
102.5°	94.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0	174.0	169.0	164.0
105°	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8	242.1	247.2	252.4
107.5°	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7	307.0	311.1	315.3
110°	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1	348.8	352.4	356.0



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0	388.2	391.4	394.7
115°	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9	450.9	453.9	456.8
117.5°	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2	507.5	510.8	514.0
120°	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4	548.0	550.5	553.1
122.5°	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2	582.9	585.7	588.4
125°	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3	635.6	637.9	640.1
127.5°	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5	684.0	686.5	689.0
130°	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1	714.9	717.6	720.3
132.5°	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2	745.6	748.0	750.2
135°	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7	786.5	789.3	792.1
137.5°	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7	826.6	828.6	830.5
140°	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5	852.9	854.3	855.7
142.5°	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9	875.1	876.4	877.7
145°	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1	909.0	908.8	908.7
147.5°	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9	939.1	938.5	937.8
150°	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8	958.5	957.3	956.2
152.5°	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6	975.3	973.9	972.6
155°	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1	999.5	997.9	996.4
157.5°	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3	1019.0	1017.6	1016.3
160°	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1030.5	1029.4	1028.3
162.5°	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5	1040.4	1039.3	1038.3
165°	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8	1053.8	1052.7	1051.7
167.5°	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8	1063.7	1062.7	1061.7
170°	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4	1069.3	1068.4	1067.3
172.5°	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2	1073.1	1072.0	1071.1
175°	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0	1077.7	1076.5	1075.4
177.5°	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8	1078.8	1077.8	1076.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	525.5	524.4	522.4	519.5	517.7	514.6	512.6	513.7	514.0	513.7	513.5
5°	511.4	507.4	502.1	496.8	492.0	486.9	483.9	482.7	480.0	478.6	477.8
7.5°	494.2	487.5	480.0	470.9	463.3	455.2	451.1	449.1	443.8	440.9	438.4
10°	481.5	470.9	463.3	451.5	444.3	433.7	426.5	426.7	419.5	415.4	412.5
12.5°	467.4	455.8	443.2	432.5	422.5	414.0	405.3	401.8	394.1	390.2	382.2
15°	444.1	430.6	417.3	402.8	392.6	379.4	366.9	351.5	339.1	328.3	325.4
17.5°	418.7	401.9	388.5	371.5	354.1	332.0	317.4	308.4	301.0	295.3	291.1
20°	401.1	384.1	369.8	344.3	320.7	305.7	295.1	288.1	280.4	274.3	270.9
22.5°	382.8	365.0	345.5	317.0	298.6	286.7	277.1	269.2	263.9	259.2	256.1
25°	356.7	337.2	305.2	285.6	270.8	258.1	251.5	246.7	241.2	234.6	231.7
27.5°	329.1	298.2	275.2	260.6	246.5	238.3	232.3	225.1	220.1	217.2	214.1
30°	308.5	277.6	259.7	243.7	233.7	224.6	217.6	213.5	208.7	203.7	201.7
32.5°	285.6	260.9	243.6	230.4	220.2	212.5	206.9	200.3	196.9	193.8	189.6
35°	257.1	238.3	222.6	211.9	202.2	195.9	189.5	185.6	179.3	176.7	175.0
37.5°	232.9	216.7	205.0	193.6	186.0	179.0	175.0	168.8	166.2	162.5	159.0
40°	219.2	203.3	192.1	182.8	174.2	169.1	164.1	159.1	155.0	153.4	149.1
42.5°	205.4	192.4	181.1	171.0	165.3	159.7	153.4	149.8	145.5	142.8	140.2
45°	186.1	174.6	165.0	156.7	150.3	144.6	140.6	134.4	132.1	126.7	124.4
47.5°	169.3	158.6	149.4	141.5	135.3	131.6	125.6	120.8	117.0	113.7	110.8
50°	157.3	148.3	139.4	132.4	126.9	121.5	115.4	113.0	107.0	105.3	103.7
52.5°	146.3	137.8	129.7	122.8	117.2	112.0	106.6	103.5	99.5	97.8	96.6
55°	130.9	122.8	115.0	108.9	103.4	98.0	94.7	90.7	88.9	87.6	86.1
57.5°	115.5	108.2	102.2	96.0	90.4	86.2	82.3	80.0	78.1	76.4	74.6
60°	105.7	98.7	93.4	87.6	81.9	78.4	75.4	72.6	70.4	67.8	67.0
62.5°	95.4	89.2	84.3	78.7	73.7	70.5	67.7	65.1	62.4	58.6	57.6
65°	81.1	76.3	71.1	66.4	62.0	58.9	54.8	51.9	50.7	50.4	50.2
67.5°	68.2	63.7	59.2	54.5	50.5	47.5	45.4	45.0	44.2	44.0	43.5
70°	59.6	55.4	51.0	46.5	42.6	42.1	41.3	40.5	39.6	39.3	38.9
72.5°	51.9	47.5	43.0	39.5	37.8	37.2	36.4	35.6	35.1	34.7	34.5
75°	39.8	35.7	32.8	31.5	30.6	30.0	28.9	28.4	28.0	27.4	27.2
77.5°	28.7	26.3	25.0	24.2	23.2	22.7	22.0	21.4	21.0	21.0	20.6
80°	21.9	20.7	19.8	18.7	18.3	17.6	17.4	16.9	17.0	16.5	16.5
82.5°	17.0	15.6	14.8	14.3	13.9	13.3	13.1	12.9	12.9	12.5	12.5
85°	8.7	8.3	8.0	7.6	7.6	7.0	7.3	7.0	7.0	6.7	6.5
87.5°	4.5	4.6	4.6	5.0	5.2	5.3	5.5	5.5	5.7	5.9	5.9
90°	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3	18.2	19.1	19.6
92.5°	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0	19.4	19.9	20.2
95°	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1	33.0	33.8	34.2
97.5°	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1	42.7	43.5	43.9
100°	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2	48.6	50.0	50.8
102.5°	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2	51.0	52.8	54.0
105°	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4	53.2	55.1	56.4
107.5°	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6	60.7	58.8	58.1
110°	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7	84.4	67.1	58.8



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5	154.4	91.2	59.9
115°	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3	240.2	160.0	113.7
117.5°	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6	474.3	454.9	424.7
120°	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2	577.2	579.4	568.7
122.5°	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3	611.6	612.8	611.1
125°	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7	661.9	663.2	664.0
127.5°	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4	709.1	710.9	711.8
130°	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9	738.8	740.7	741.6
132.5°	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6	767.3	768.9	769.6
135°	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7	808.4	810.1	810.8
137.5°	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7	846.4	848.2	848.7
140°	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4	871.0	872.5	872.9
142.5°	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2	893.6	895.0	895.3
145°	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1	925.3	926.4	926.7
147.5°	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8	952.7	953.6	953.7
150°	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9	969.9	970.9	971.0
152.5°	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5	985.5	986.5	986.5
155°	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5	1006.5	1007.5	1007.4
157.5°	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2	1024.4	1025.6	1025.5
160°	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6	1034.5	1035.6	1035.5
162.5°	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2	1044.3	1045.5	1045.4
165°	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4
167.5°	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7	1065.9	1067.1	1067.0
170°	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8	1070.9	1072.1	1072.0
172.5°	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4	1074.6	1075.9	1075.7
175°	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5	1078.7	1079.9	1079.7
177.5°	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0	1078.9	1079.9	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	511.8	512.1	511.7	511.9	511.7	512.1	511.8	513.5	513.7	514.0	513.7
5°	476.9	474.7	474.3	473.8	474.3	474.7	476.9	477.8	478.6	480.0	482.7
7.5°	435.2	434.9	433.9	432.6	433.9	434.9	435.2	438.4	440.9	443.8	449.1
10°	408.4	407.4	407.2	405.9	407.2	407.4	408.4	412.5	415.4	419.5	426.7
12.5°	376.9	371.0	370.4	367.1	370.4	371.0	376.9	382.2	390.2	394.1	401.8
15°	321.0	319.8	316.1	313.7	316.1	319.8	321.0	325.4	328.3	339.1	351.5
17.5°	288.9	285.3	284.1	283.6	284.1	285.3	288.9	291.1	295.3	301.0	308.4
20°	268.3	265.1	264.5	264.1	264.5	265.1	268.3	270.9	274.3	280.4	288.1
22.5°	254.1	250.6	249.2	248.1	249.2	250.6	254.1	256.1	259.2	263.9	269.2
25°	229.8	228.5	227.8	227.4	227.8	228.5	229.8	231.7	234.6	241.2	246.7
27.5°	210.8	208.0	207.4	206.4	207.4	208.0	210.8	214.1	217.2	220.1	225.1
30°	200.0	199.1	197.8	196.7	197.8	199.1	200.0	201.7	203.7	208.7	213.5
32.5°	187.3	186.5	185.3	184.8	185.3	186.5	187.3	189.6	193.8	196.9	200.3
35°	173.2	170.6	169.4	167.8	169.4	170.6	173.2	175.0	176.7	179.3	185.6
37.5°	158.2	156.9	155.3	155.9	155.3	156.9	158.2	159.0	162.5	166.2	168.8
40°	146.7	145.8	145.4	145.2	145.4	145.8	146.7	149.1	153.4	155.0	159.1
42.5°	137.5	134.9	134.0	134.0	134.0	134.9	137.5	140.2	142.8	145.5	149.8
45°	123.5	121.2	119.4	119.6	119.4	121.2	123.5	124.4	126.7	132.1	134.4
47.5°	109.3	109.2	108.1	108.4	108.1	109.2	109.3	110.8	113.7	117.0	120.8
50°	102.4	101.3	100.5	100.8	100.5	101.3	102.4	103.7	105.3	107.0	113.0
52.5°	95.9	94.9	94.3	95.1	94.3	94.9	95.9	96.6	97.8	99.5	103.5
55°	85.2	84.1	83.9	83.7	83.9	84.1	85.2	86.1	87.6	88.9	90.7
57.5°	73.2	72.5	71.3	70.9	71.3	72.5	73.2	74.6	76.4	78.1	80.0
60°	64.7	63.2	61.3	61.1	61.3	63.2	64.7	67.0	67.8	70.4	72.6
62.5°	56.7	56.5	56.1	56.1	56.1	56.5	56.7	57.6	58.6	62.4	65.1
65°	49.8	49.7	49.8	50.0	49.8	49.7	49.8	50.2	50.4	50.7	51.9
67.5°	43.4	43.0	42.7	42.9	42.7	43.0	43.4	43.5	44.0	44.2	45.0
70°	38.5	38.3	38.2	38.2	38.2	38.3	38.5	38.9	39.3	39.6	40.5
72.5°	33.8	33.8	33.6	33.4	33.6	33.8	33.8	34.5	34.7	35.1	35.6
75°	27.1	26.7	26.7	26.7	26.7	26.7	27.1	27.2	27.4	28.0	28.4
77.5°	20.6	20.4	20.2	20.1	20.2	20.4	20.6	20.6	21.0	21.0	21.4
80°	16.3	16.1	15.9	15.9	15.9	16.1	16.3	16.5	16.5	17.0	16.9
82.5°	12.5	12.2	12.2	12.1	12.2	12.2	12.5	12.5	12.5	12.9	12.9
85°	6.7	6.8	6.7	7.0	6.7	6.8	6.7	6.5	6.7	7.0	7.0
87.5°	6.0	5.9	6.0	6.0	6.0	5.9	6.0	5.9	5.9	5.7	5.5
90°	20.0	20.3	20.7	21.0	20.7	20.3	20.0	19.6	19.1	18.2	17.3
92.5°	20.4	20.6	20.8	21.0	20.8	20.6	20.4	20.2	19.9	19.4	19.0
95°	34.0	33.8	33.7	33.5	33.7	33.8	34.0	34.2	33.8	33.0	32.1
97.5°	44.1	44.3	44.5	44.7	44.5	44.3	44.1	43.9	43.5	42.7	42.1
100°	51.1	51.5	51.9	52.2	51.9	51.5	51.1	50.8	50.0	48.6	47.2
102.5°	54.5	55.0	55.4	55.9	55.4	55.0	54.5	54.0	52.8	51.0	49.2
105°	57.2	57.8	58.5	59.2	58.5	57.8	57.2	56.4	55.1	53.2	51.4
107.5°	58.9	59.5	60.3	60.9	60.3	59.5	58.9	58.1	58.8	60.7	62.6
110°	59.4	60.2	60.8	61.6	60.8	60.2	59.4	58.8	67.1	84.4	101.7



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	60.5	61.1	61.6	62.2	61.6	61.1	60.5	59.9	91.2	154.4	217.5
115°	101.3	88.8	76.3	63.9	76.3	88.8	101.3	113.7	160.0	240.2	320.3
117.5°	383.7	342.8	301.8	260.8	301.8	342.8	383.7	424.7	454.9	474.3	493.6
120°	545.4	522.0	498.6	475.2	498.6	522.0	545.4	568.7	579.4	577.2	575.2
122.5°	606.6	602.1	597.5	593.0	597.5	602.1	606.6	611.1	612.8	611.6	610.3
125°	664.6	665.0	665.5	666.1	665.5	665.0	664.6	664.0	663.2	661.9	660.7
127.5°	711.9	712.0	712.1	712.2	712.1	712.0	711.9	711.8	710.9	709.1	707.4
130°	741.4	741.2	741.0	740.9	741.0	741.2	741.4	741.6	740.7	738.8	736.9
132.5°	769.4	769.2	769.1	768.9	769.1	769.2	769.4	769.6	768.9	767.3	765.6
135°	810.5	810.1	809.8	809.4	809.8	810.1	810.5	810.8	810.1	808.4	806.7
137.5°	848.2	847.5	846.9	846.4	846.9	847.5	848.2	848.7	848.2	846.4	844.7
140°	872.0	871.1	870.3	869.4	870.3	871.1	872.0	872.9	872.5	871.0	869.4
142.5°	894.5	893.6	892.8	891.9	892.8	893.6	894.5	895.3	895.0	893.6	892.2
145°	925.8	924.9	924.1	923.2	924.1	924.9	925.8	926.7	926.4	925.3	924.1
147.5°	952.9	952.2	951.5	950.7	951.5	952.2	952.9	953.7	953.6	952.7	951.8
150°	970.2	969.3	968.4	967.6	968.4	969.3	970.2	971.0	970.9	969.9	968.9
152.5°	985.4	984.2	983.1	981.9	983.1	984.2	985.4	986.5	986.5	985.5	984.5
155°	1006.0	1004.6	1003.2	1001.8	1003.2	1004.6	1006.0	1007.4	1007.5	1006.5	1005.5
157.5°	1024.1	1022.8	1021.4	1020.1	1021.4	1022.8	1024.1	1025.5	1025.6	1024.4	1023.2
160°	1034.3	1033.1	1031.9	1030.7	1031.9	1033.1	1034.3	1035.5	1035.6	1034.5	1033.6
162.5°	1043.8	1042.4	1040.9	1039.4	1040.9	1042.4	1043.8	1045.4	1045.5	1044.3	1043.2
165°	1056.1	1054.9	1053.7	1052.5	1053.7	1054.9	1056.1	1057.4	1057.4	1056.1	1054.9
167.5°	1065.4	1063.9	1062.3	1060.8	1062.3	1063.9	1065.4	1067.0	1067.1	1065.9	1064.7
170°	1070.4	1068.9	1067.3	1065.8	1067.3	1068.9	1070.4	1072.0	1072.1	1070.9	1069.8
172.5°	1074.2	1072.6	1071.1	1069.5	1071.1	1072.6	1074.2	1075.7	1075.9	1074.6	1073.4
175°	1077.9	1076.2	1074.5	1072.8	1074.5	1076.2	1077.9	1079.7	1079.9	1078.7	1077.5
177.5°	1078.5	1077.3	1076.0	1074.8	1076.0	1077.3	1078.5	1079.8	1079.9	1078.9	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	512.6	514.6	517.7	519.5	522.4	524.4	525.5	527.3	528.4	532.1	536.0
5°	483.9	486.9	492.0	496.8	502.1	507.4	511.4	515.8	519.8	526.8	534.3
7.5°	451.1	455.2	463.3	470.9	480.0	487.5	494.2	501.8	508.6	518.7	529.2
10°	426.5	433.7	444.3	451.5	463.3	470.9	481.5	489.8	499.3	512.7	524.5
12.5°	405.3	414.0	422.5	432.5	443.2	455.8	467.4	478.2	489.3	503.1	517.1
15°	366.9	379.4	392.6	402.8	417.3	430.6	444.1	458.5	472.2	488.8	506.9
17.5°	317.4	332.0	354.1	371.5	388.5	401.9	418.7	436.1	452.2	472.1	492.4
20°	295.1	305.7	320.7	344.3	369.8	384.1	401.1	420.4	438.9	460.6	482.2
22.5°	277.1	286.7	298.6	317.0	345.5	365.0	382.8	402.4	423.8	445.9	469.9
25°	251.5	258.1	270.8	285.6	305.2	337.2	356.7	376.3	399.7	423.4	450.8
27.5°	232.3	238.3	246.5	260.6	275.2	298.2	329.1	350.6	373.8	400.5	428.9
30°	217.6	224.6	233.7	243.7	259.7	277.6	308.5	333.4	356.3	383.8	414.1
32.5°	206.9	212.5	220.2	230.4	243.6	260.9	285.6	315.7	338.1	367.0	398.7
35°	189.5	195.9	202.2	211.9	222.6	238.3	257.1	289.3	311.5	340.0	371.9
37.5°	175.0	179.0	186.0	193.6	205.0	216.7	232.9	261.8	285.8	313.8	346.4
40°	164.1	169.1	174.2	182.8	192.1	203.3	219.2	240.8	268.3	295.8	327.6
42.5°	153.4	159.7	165.3	171.0	181.1	192.4	205.4	223.6	251.8	277.7	308.7
45°	140.6	144.6	150.3	156.7	165.0	174.6	186.1	202.0	229.1	251.5	280.5
47.5°	125.6	131.6	135.3	141.5	149.4	158.6	169.3	183.0	204.9	225.9	252.9
50°	115.4	121.5	126.9	132.4	139.4	148.3	157.3	170.6	188.2	210.2	235.4
52.5°	106.6	112.0	117.2	122.8	129.7	137.8	146.3	158.0	173.0	193.3	217.8
55°	94.7	98.0	103.4	108.9	115.0	122.8	130.9	140.7	153.7	170.7	190.5
57.5°	82.3	86.2	90.4	96.0	102.2	108.2	115.5	124.4	134.6	150.0	167.0
60°	75.4	78.4	81.9	87.6	93.4	98.7	105.7	113.2	122.8	136.2	150.6
62.5°	67.7	70.5	73.7	78.7	84.3	89.2	95.4	103.2	111.4	123.5	136.2
65°	54.8	58.9	62.0	66.4	71.1	76.3	81.1	87.4	94.7	104.3	115.5
67.5°	45.4	47.5	50.5	54.5	59.2	63.7	68.2	73.1	79.4	86.8	95.8
70°	41.3	42.1	42.6	46.5	51.0	55.4	59.6	64.2	69.6	75.7	83.5
72.5°	36.4	37.2	37.8	39.5	43.0	47.5	51.9	55.4	60.4	65.6	71.8
75°	28.9	30.0	30.6	31.5	32.8	35.7	39.8	43.1	46.1	50.0	55.0
77.5°	22.0	22.7	23.2	24.2	25.0	26.3	28.7	31.6	34.5	36.7	40.1
80°	17.4	17.6	18.3	18.7	19.8	20.7	21.9	24.3	27.1	28.0	30.4
82.5°	13.1	13.3	13.9	14.3	14.8	15.6	17.0	17.6	19.8	21.0	22.5
85°	7.3	7.0	7.6	7.6	8.0	8.3	8.7	9.6	10.2	11.7	12.1
87.5°	5.5	5.3	5.2	5.0	4.6	4.6	4.5	4.2	4.2	4.2	4.5
90°	16.5	15.6	14.2	12.8	11.4	10.0	8.4	6.5	4.6	2.7	0.8
92.5°	18.5	18.1	17.4	16.7	16.0	15.3	15.1	15.2	15.4	15.6	15.7
95°	31.2	30.4	29.2	28.0	26.7	25.5	27.8	33.5	39.2	44.9	50.6
97.5°	41.3	40.7	37.8	35.1	32.3	29.4	36.1	52.2	68.3	84.4	100.5
100°	45.8	44.4	41.5	38.5	35.5	32.6	43.0	66.8	90.4	114.1	137.9
102.5°	47.5	45.7	70.3	94.9	119.5	144.1	158.9	164.0	169.0	174.0	179.0
105°	49.4	47.5	94.8	142.0	189.3	236.6	257.6	252.4	247.2	242.1	236.8
107.5°	64.6	66.5	123.2	179.9	236.6	293.3	319.5	315.3	311.1	307.0	302.7
110°	119.0	136.3	186.4	236.4	286.4	336.5	359.6	356.0	352.4	348.8	345.1



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	280.7	343.9	356.2	368.6	381.0	393.3	397.9	394.7	391.4	388.2	385.0
115°	400.5	480.7	476.4	472.0	467.7	463.3	459.7	456.8	453.9	450.9	447.9
117.5°	513.0	532.4	529.5	526.4	523.5	520.5	517.4	514.0	510.8	507.5	504.2
120°	573.2	571.0	567.9	564.8	561.7	558.6	555.7	553.1	550.5	548.0	545.4
122.5°	609.0	607.8	604.4	601.0	597.6	594.3	591.2	588.4	585.7	582.9	580.2
125°	659.5	658.3	655.0	651.8	648.4	645.1	642.4	640.1	637.9	635.6	633.3
127.5°	705.6	703.8	701.3	698.9	696.4	694.0	691.5	689.0	686.5	684.0	681.5
130°	735.0	733.1	731.2	729.3	727.3	725.5	723.1	720.3	717.6	714.9	712.1
132.5°	764.0	762.4	760.4	758.6	756.7	754.7	752.6	750.2	748.0	745.6	743.2
135°	804.9	803.2	801.6	800.1	798.5	797.0	794.8	792.1	789.3	786.5	783.7
137.5°	843.1	841.4	839.6	837.8	836.1	834.3	832.4	830.5	828.6	826.6	824.7
140°	867.9	866.3	864.4	862.5	860.5	858.7	857.0	855.7	854.3	852.9	851.5
142.5°	890.8	889.3	887.2	885.0	882.8	880.6	878.9	877.7	876.4	875.1	873.9
145°	922.8	921.6	918.7	915.7	912.8	909.9	908.5	908.7	908.8	909.0	909.1
147.5°	950.9	950.0	947.1	944.1	941.3	938.3	937.2	937.8	938.5	939.1	939.9
150°	967.8	966.8	964.0	961.2	958.5	955.7	955.0	956.2	957.3	958.5	959.8
152.5°	983.4	982.4	979.7	977.1	974.4	971.8	971.2	972.6	973.9	975.3	976.6
155°	1004.4	1003.4	1001.4	999.2	997.2	995.1	994.8	996.4	997.9	999.5	1001.1
157.5°	1022.1	1020.8	1019.4	1018.0	1016.5	1015.0	1015.0	1016.3	1017.6	1019.0	1020.3
160°	1032.5	1031.4	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4
162.5°	1042.0	1040.8	1039.9	1039.0	1038.1	1037.2	1037.3	1038.3	1039.3	1040.4	1041.5
165°	1053.7	1052.5	1052.0	1051.4	1050.9	1050.4	1050.7	1051.7	1052.7	1053.8	1054.8
167.5°	1063.5	1062.3	1061.8	1061.4	1060.9	1060.4	1060.6	1061.7	1062.7	1063.7	1064.8
170°	1068.5	1067.3	1067.0	1066.6	1066.2	1065.9	1066.2	1067.3	1068.4	1069.3	1070.4
172.5°	1072.3	1071.1	1070.7	1070.3	1070.0	1069.7	1070.0	1071.1	1072.0	1073.1	1074.2
175°	1076.3	1075.1	1074.7	1074.4	1074.1	1073.7	1074.2	1075.4	1076.5	1077.7	1079.0
177.5°	1077.0	1076.0	1075.9	1075.7	1075.6	1075.5	1075.9	1076.8	1077.8	1078.8	1079.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	536.1	536.5	539.5	540.9	543.5	544.5	545.8	545.4	545.4	546.0	550.2
5°	537.3	541.0	546.5	551.9	557.1	561.5	564.5	567.4	568.6	573.9	578.7
7.5°	535.3	542.2	551.3	559.5	569.3	577.0	583.3	589.1	593.0	600.9	608.9
10°	532.8	542.4	552.8	563.4	576.9	587.1	597.5	605.4	608.0	619.6	626.3
12.5°	527.7	540.6	553.8	567.5	580.7	594.8	606.2	614.2	623.3	633.7	646.0
15°	520.2	535.0	552.3	569.8	588.7	605.8	618.0	631.9	641.9	653.4	664.1
17.5°	509.4	528.5	550.3	570.7	592.6	610.8	627.7	641.0	648.0	654.6	656.2
20°	500.8	521.3	547.1	571.1	593.0	614.1	630.8	641.9	643.8	643.9	634.1
22.5°	491.5	514.7	541.6	566.2	592.4	615.9	628.8	633.6	626.2	613.7	594.7
25°	474.3	501.2	532.5	560.6	589.1	611.3	615.8	607.5	581.7	554.6	520.4
27.5°	455.7	485.9	519.4	550.7	581.1	594.9	585.3	555.2	508.9	468.6	419.7
30°	442.1	476.0	508.9	543.9	572.1	578.0	556.0	511.7	457.6	396.9	348.1
32.5°	426.5	462.0	498.2	534.4	558.0	552.2	515.8	461.3	397.9	338.2	292.2
35°	404.3	440.9	480.0	516.3	531.3	506.3	451.8	380.9	316.1	260.4	228.7
37.5°	378.6	418.6	459.2	492.5	491.5	449.8	375.6	302.4	247.9	214.9	192.4
40°	360.4	400.8	444.7	472.8	460.8	406.5	326.1	257.1	217.2	190.9	174.5
42.5°	342.9	383.4	427.1	449.4	428.4	361.7	281.7	227.6	194.7	174.2	160.9
45°	313.2	356.0	396.3	408.7	371.3	297.8	227.8	188.5	166.6	151.5	142.3
47.5°	284.1	326.2	363.1	363.2	312.7	241.5	192.2	163.1	144.5	132.7	126.0
50°	266.3	306.3	337.2	332.4	275.0	214.8	171.9	146.8	131.3	122.2	115.2
52.5°	246.3	285.1	311.9	298.2	243.1	189.1	153.6	132.6	119.8	111.9	105.6
55°	217.2	251.7	270.6	249.8	198.4	157.3	129.8	113.3	103.7	97.0	91.6
57.5°	188.7	217.1	228.9	204.8	163.4	130.4	109.8	97.4	87.9	83.1	80.3
60°	170.7	195.0	203.3	176.7	142.0	114.1	97.3	85.8	78.7	75.6	72.8
62.5°	153.1	172.9	176.3	152.0	123.8	99.9	85.4	75.7	71.0	68.0	65.4
65°	127.0	141.3	139.7	120.0	98.0	79.2	68.7	62.8	59.3	55.0	50.4
67.5°	104.6	113.3	108.0	93.4	74.8	61.6	54.7	50.2	45.8	41.8	40.8
70°	90.3	95.4	89.8	76.3	61.3	51.7	46.1	40.8	38.2	37.3	35.5
72.5°	76.7	78.5	72.5	60.9	49.9	42.8	37.3	34.4	32.9	32.2	31.1
75°	57.6	56.3	51.1	42.1	34.7	29.8	28.1	27.1	26.1	25.4	24.8
77.5°	40.4	38.6	33.9	28.0	24.1	21.9	20.8	20.2	19.8	19.4	18.8
80°	30.4	29.1	24.5	20.0	18.3	17.2	16.6	15.9	15.9	15.6	15.0
82.5°	22.3	20.8	16.7	14.7	13.8	13.0	12.6	12.2	12.1	12.1	11.7
85°	11.7	9.5	8.3	8.0	7.4	7.0	7.3	6.8	6.8	6.8	6.7
87.5°	4.1	3.8	4.0	4.2	4.6	5.0	5.1	5.4	5.8	5.8	6.1
90°	2.7	4.6	6.5	8.4	10.0	11.4	12.8	14.2	15.6	16.5	17.3
92.5°	15.6	15.4	15.2	15.1	15.3	16.0	16.7	17.4	18.1	18.5	19.0
95°	44.9	39.2	33.5	27.8	25.5	26.7	28.0	29.2	30.4	31.2	32.1
97.5°	84.4	68.3	52.2	36.1	29.4	32.3	35.1	37.8	40.7	41.3	42.1
100°	114.1	90.4	66.8	43.0	32.6	35.5	38.5	41.5	44.4	45.8	47.2
102.5°	174.0	169.0	164.0	158.9	144.1	119.5	94.9	70.3	45.7	47.5	49.2
105°	242.1	247.2	252.4	257.6	236.6	189.3	142.0	94.8	47.5	49.4	51.4
107.5°	307.0	311.1	315.3	319.5	293.3	236.6	179.9	123.2	66.5	64.6	62.6
110°	348.8	352.4	356.0	359.6	336.5	286.4	236.4	186.4	136.3	119.0	101.7



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	388.2	391.4	394.7	397.9	393.3	381.0	368.6	356.2	343.9	280.7	217.5
115°	450.9	453.9	456.8	459.7	463.3	467.7	472.0	476.4	480.7	400.5	320.3
117.5°	507.5	510.8	514.0	517.4	520.5	523.5	526.4	529.5	532.4	513.0	493.6
120°	548.0	550.5	553.1	555.7	558.6	561.7	564.8	567.9	571.0	573.2	575.2
122.5°	582.9	585.7	588.4	591.2	594.3	597.6	601.0	604.4	607.8	609.0	610.3
125°	635.6	637.9	640.1	642.4	645.1	648.4	651.8	655.0	658.3	659.5	660.7
127.5°	684.0	686.5	689.0	691.5	694.0	696.4	698.9	701.3	703.8	705.6	707.4
130°	714.9	717.6	720.3	723.1	725.5	727.3	729.3	731.2	733.1	735.0	736.9
132.5°	745.6	748.0	750.2	752.6	754.7	756.7	758.6	760.4	762.4	764.0	765.6
135°	786.5	789.3	792.1	794.8	797.0	798.5	800.1	801.6	803.2	804.9	806.7
137.5°	826.6	828.6	830.5	832.4	834.3	836.1	837.8	839.6	841.4	843.1	844.7
140°	852.9	854.3	855.7	857.0	858.7	860.5	862.5	864.4	866.3	867.9	869.4
142.5°	875.1	876.4	877.7	878.9	880.6	882.8	885.0	887.2	889.3	890.8	892.2
145°	909.0	908.8	908.7	908.5	909.9	912.8	915.7	918.7	921.6	922.8	924.1
147.5°	939.1	938.5	937.8	937.2	938.3	941.3	944.1	947.1	950.0	950.9	951.8
150°	958.5	957.3	956.2	955.0	955.7	958.5	961.2	964.0	966.8	967.8	968.9
152.5°	975.3	973.9	972.6	971.2	971.8	974.4	977.1	979.7	982.4	983.4	984.5
155°	999.5	997.9	996.4	994.8	995.1	997.2	999.2	1001.4	1003.4	1004.4	1005.5
157.5°	1019.0	1017.6	1016.3	1015.0	1015.0	1016.5	1018.0	1019.4	1020.8	1022.1	1023.2
160°	1030.5	1029.4	1028.3	1027.3	1027.3	1028.3	1029.4	1030.5	1031.4	1032.5	1033.6
162.5°	1040.4	1039.3	1038.3	1037.3	1037.2	1038.1	1039.0	1039.9	1040.8	1042.0	1043.2
165°	1053.8	1052.7	1051.7	1050.7	1050.4	1050.9	1051.4	1052.0	1052.5	1053.7	1054.9
167.5°	1063.7	1062.7	1061.7	1060.6	1060.4	1060.9	1061.4	1061.8	1062.3	1063.5	1064.7
170°	1069.3	1068.4	1067.3	1066.2	1065.9	1066.2	1066.6	1067.0	1067.3	1068.5	1069.8
172.5°	1073.1	1072.0	1071.1	1070.0	1069.7	1070.0	1070.3	1070.7	1071.1	1072.3	1073.4
175°	1077.7	1076.5	1075.4	1074.2	1073.7	1074.1	1074.4	1074.7	1075.1	1076.3	1077.5
177.5°	1078.8	1077.8	1076.8	1075.9	1075.5	1075.6	1075.7	1075.9	1076.0	1077.0	1078.0
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	551.6	553.6	554.5	554.5	555.5	555.1	554.6
5°	583.3	586.9	587.7	590.9	593.4	592.6	593.0
7.5°	614.9	620.5	626.1	628.7	629.1	630.6	631.1
10°	634.3	639.0	647.6	646.4	652.8	656.6	650.4
12.5°	653.0	659.3	665.3	666.9	670.6	671.8	669.4
15°	669.8	673.2	673.5	672.6	673.8	672.8	669.3
17.5°	654.1	648.7	637.7	632.5	628.4	622.3	619.9
20°	628.0	612.0	593.5	586.1	577.5	560.4	564.5
22.5°	571.7	553.6	535.0	513.4	503.0	486.9	485.9
25°	484.1	452.8	418.3	394.3	380.2	364.1	357.0
27.5°	376.4	337.0	308.8	294.5	281.4	268.7	268.2
30°	305.6	276.0	254.1	241.9	233.9	228.5	229.7
32.5°	257.6	237.3	222.5	212.4	206.5	202.4	202.4
35°	210.6	196.7	187.2	183.0	178.7	175.8	175.9
37.5°	180.2	171.9	166.6	161.9	159.2	157.8	156.9
40°	164.6	157.8	153.7	150.9	148.7	146.7	146.3
42.5°	152.4	146.7	142.6	140.4	138.4	136.9	136.6
45°	135.2	130.5	126.9	124.4	123.5	122.2	122.2
47.5°	120.3	115.7	112.8	111.3	109.7	108.8	108.8
50°	110.2	106.6	104.1	103.1	101.8	101.3	101.1
52.5°	101.2	98.5	96.7	96.0	95.5	94.8	94.9
55°	88.9	87.4	86.7	86.1	85.2	84.1	84.8
57.5°	78.6	77.3	75.3	73.5	72.7	71.9	72.2
60°	71.3	68.7	66.1	64.1	63.5	61.9	61.9
62.5°	62.1	58.5	55.3	54.1	53.6	52.8	52.7
65°	47.8	46.3	45.6	44.8	44.4	44.4	44.1
67.5°	39.6	39.0	38.2	38.0	37.7	37.5	37.4
70°	35.0	34.2	33.9	33.7	33.3	33.5	32.9
72.5°	30.6	30.0	29.9	29.4	29.2	29.2	28.8
75°	24.1	24.1	23.9	23.7	23.3	23.2	23.3
77.5°	18.5	18.6	18.3	18.2	18.2	18.2	18.0
80°	14.8	15.0	14.8	14.6	14.4	14.6	14.4
82.5°	11.7	11.4	11.4	11.3	11.3	11.3	11.2
85°	6.7	6.8	6.7	6.5	6.5	6.5	6.7
87.5°	6.1	6.4	6.4	6.5	6.6	6.7	6.6
90°	18.2	19.1	19.6	20.0	20.3	20.7	21.0
92.5°	19.4	19.9	20.2	20.4	20.6	20.8	21.0
95°	33.0	33.8	34.2	34.0	33.8	33.7	33.5
97.5°	42.7	43.5	43.9	44.1	44.3	44.5	44.7
100°	48.6	50.0	50.8	51.1	51.5	51.9	52.2
102.5°	51.0	52.8	54.0	54.5	55.0	55.4	55.9
105°	53.2	55.1	56.4	57.2	57.8	58.5	59.2
107.5°	60.7	58.8	58.1	58.9	59.5	60.3	60.9
110°	84.4	67.1	58.8	59.4	60.2	60.8	61.6



TEST NUMBER: P331773-930

CATALOG NUMBER: S122RDIW-S290D970U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	154.4	91.2	59.9	60.5	61.1	61.6	62.2
115°	240.2	160.0	113.7	101.3	88.8	76.3	63.9
117.5°	474.3	454.9	424.7	383.7	342.8	301.8	260.8
120°	577.2	579.4	568.7	545.4	522.0	498.6	475.2
122.5°	611.6	612.8	611.1	606.6	602.1	597.5	593.0
125°	661.9	663.2	664.0	664.6	665.0	665.5	666.1
127.5°	709.1	710.9	711.8	711.9	712.0	712.1	712.2
130°	738.8	740.7	741.6	741.4	741.2	741.0	740.9
132.5°	767.3	768.9	769.6	769.4	769.2	769.1	768.9
135°	808.4	810.1	810.8	810.5	810.1	809.8	809.4
137.5°	846.4	848.2	848.7	848.2	847.5	846.9	846.4
140°	871.0	872.5	872.9	872.0	871.1	870.3	869.4
142.5°	893.6	895.0	895.3	894.5	893.6	892.8	891.9
145°	925.3	926.4	926.7	925.8	924.9	924.1	923.2
147.5°	952.7	953.6	953.7	952.9	952.2	951.5	950.7
150°	969.9	970.9	971.0	970.2	969.3	968.4	967.6
152.5°	985.5	986.5	986.5	985.4	984.2	983.1	981.9
155°	1006.5	1007.5	1007.4	1006.0	1004.6	1003.2	1001.8
157.5°	1024.4	1025.6	1025.5	1024.1	1022.8	1021.4	1020.1
160°	1034.5	1035.6	1035.5	1034.3	1033.1	1031.9	1030.7
162.5°	1044.3	1045.5	1045.4	1043.8	1042.4	1040.9	1039.4
165°	1056.1	1057.4	1057.4	1056.1	1054.9	1053.7	1052.5
167.5°	1065.9	1067.1	1067.0	1065.4	1063.9	1062.3	1060.8
170°	1070.9	1072.1	1072.0	1070.4	1068.9	1067.3	1065.8
172.5°	1074.6	1075.9	1075.7	1074.2	1072.6	1071.1	1069.5
175°	1078.7	1079.9	1079.7	1077.9	1076.2	1074.5	1072.8
177.5°	1078.9	1079.9	1079.8	1078.5	1077.3	1076.0	1074.8
180°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6

(END OF REPORT)