

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: P331769-830

Luminaire Tested: **S122RDIW-S290D710U830-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331769-830
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-S290D710U830-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 710 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3739.5 lumens
Efficiency: N/A
Efficacy: 123.0 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

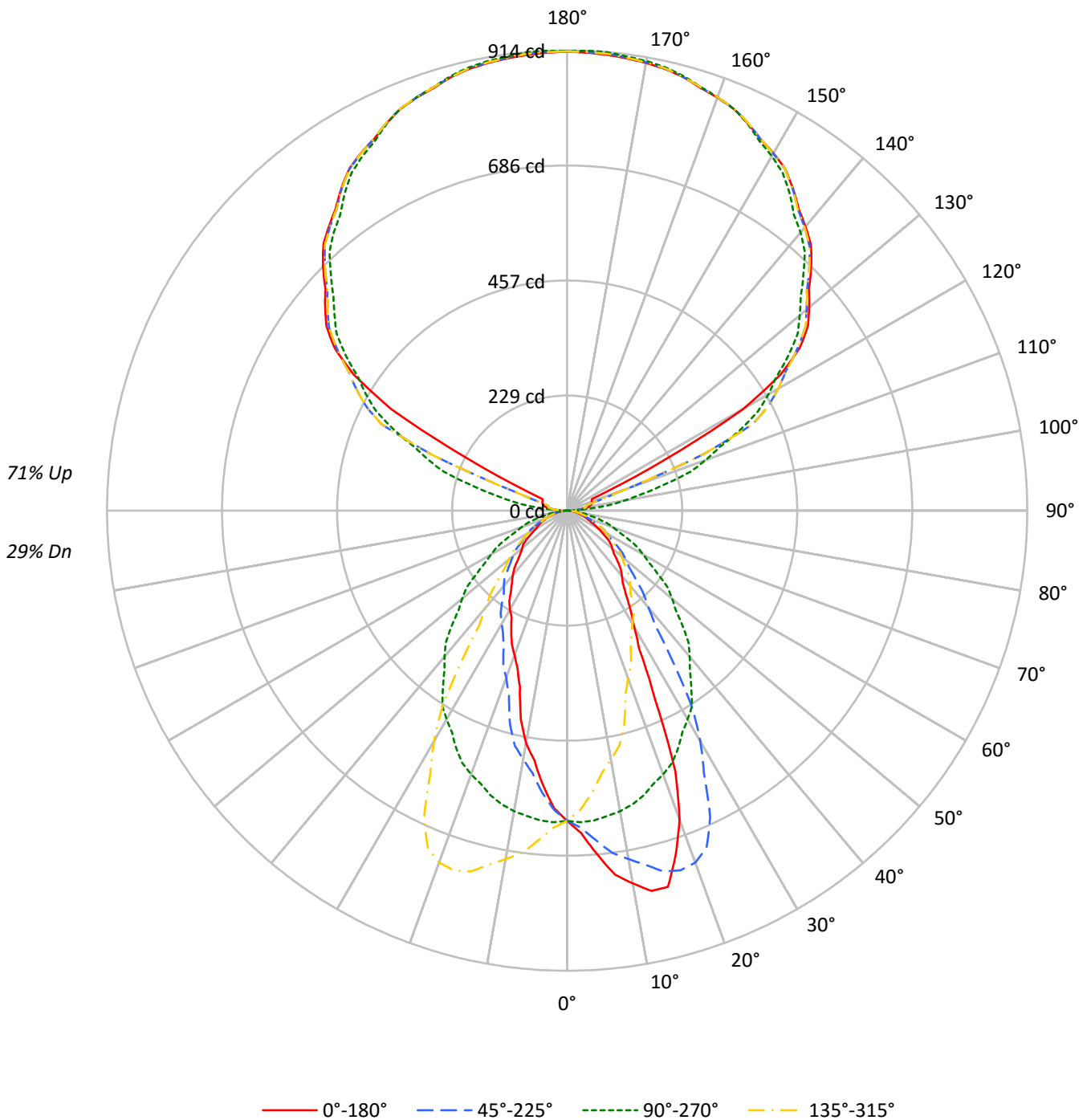
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29
1	93	89	86	83	84	80	77	75	63	61	59	47	46	45	33	32	32	25
2	85	79	73	68	76	71	66	62	56	53	50	42	40	38	29	28	27	22
3	78	69	63	57	70	63	57	52	50	46	42	38	35	33	26	25	24	19
4	72	62	54	49	64	56	49	45	44	40	36	34	31	29	24	22	21	17
5	66	55	48	42	59	50	43	38	40	35	32	31	27	25	22	20	18	15
6	61	49	42	36	54	45	38	34	36	31	28	28	25	22	20	18	17	13
7	56	45	37	32	50	41	34	30	33	28	25	25	22	20	18	16	15	12
8	52	41	33	28	47	37	31	26	30	25	22	23	20	18	17	15	13	11
9	49	37	30	25	44	34	28	23	27	23	20	21	18	16	16	14	12	10
10	45	34	27	23	41	31	25	21	25	21	18	20	17	14	15	13	11	9

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: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	1.6
10°-20°	162.8	4.4
20°-30°	209.7	5.6
30°-40°	199.3	5.3
40°-50°	170.7	4.6
50°-60°	130.0	3.5
60°-70°	82.2	2.2
70°-80°	41.0	1.1
80°-90°	12.9	0.3
90°-100°	30.4	0.8
100°-110°	111.6	3.0
110°-120°	298.2	8.0
120°-130°	492.2	13.2
130°-140°	523.5	14.0
140°-150°	486.5	13.0
150°-160°	391.2	10.5
160°-170°	252.1	6.7
170°-180°	86.8	2.3
0°-30°	430.9	11.5
0°-40°	630.2	16.9
0°-60°	931.0	24.9
0°-90°	1067.1	28.5
90°-120°	440.1	11.8
90°-150°	1942.3	51.9
90°-180°	2672.0	71.5
0°-180°	3739.5	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°	18	1	18	1	18	8
95°	28	43	28	43	28	26
105°	50	201	50	201	50	52
115°	54	379	54	379	54	136
125°	564	536	564	536	564	488
135°	686	664	686	664	686	528
145°	782	770	782	770	782	489
155°	849	848	849	848	849	392
165°	892	893	892	893	892	252
175°	909	914	909	914	909	87
180°	912	912	912	912	912	



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	6.3	6.4	6.3	6.3	6.2	6.1	6.0	6.0	5.7	5.7	5.3
90°	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7	13.9	13.2	12.1
92.5°	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1	15.6	15.3	14.7
95°	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2	26.5	25.7	24.7
97.5°	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6	35.1	34.4	32.0
100°	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0	38.7	37.6	35.2
102.5°	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8	40.2	38.6	35.5
105°	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5	41.8	40.2	38.3
107.5°	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1	54.7	56.4	104.3
110°	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1	100.9	115.5	157.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3	237.8	291.2	301.7
115°	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4	339.2	407.1	403.4
117.5°	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1	434.5	450.9	448.4
120°	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2	485.4	483.6	481.0
122.5°	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9	515.9	514.8	511.9
125°	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6	558.6	557.5	554.8
127.5°	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1	597.6	596.1	594.0
130°	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2	622.5	620.9	619.3
132.5°	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5	647.1	645.7	644.1
135°	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2	681.7	680.3	679.0
137.5°	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5	714.1	712.7	711.1
140°	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4	735.1	733.8	732.1
142.5°	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6	754.5	753.3	751.4
145°	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6	781.7	780.6	778.1
147.5°	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2	805.4	804.6	802.1
150°	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6	819.7	818.9	816.5
152.5°	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8	832.9	832.1	829.8
155°	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6	850.7	849.9	848.1
157.5°	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7	865.6	864.6	863.4
160°	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3	874.5	873.6	872.7
162.5°	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5	882.5	881.6	880.8
165°	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5	892.5	891.5	891.0
167.5°	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8	900.8	899.8	899.4
170°	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1	905.0	904.0	903.7
172.5°	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2	908.1	907.1	906.8
175°	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7	911.6	910.6	910.3
177.5°	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0	912.2	911.3	911.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	5.1	5.0	4.8	4.3	4.1	4.1	4.5	5.1	4.7	4.5	4.5
90°	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7	2.3	3.9	5.5
92.5°	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3	13.2	13.0	12.9
95°	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9	38.1	33.2	28.4
97.5°	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1	71.4	57.9	44.2
100°	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8	96.7	76.6	56.6
102.5°	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7	147.4	143.1	138.8
105°	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6	205.0	209.4	213.8
107.5°	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4	260.0	263.5	267.0
110°	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3	295.4	298.5	301.5



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1	328.9	331.6	334.2
115°	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4	381.9	384.4	386.9
117.5°	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1	429.8	432.6	435.4
120°	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8	464.1	466.3	468.4
122.5°	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4	493.8	496.1	498.4
125°	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4	538.4	540.3	542.2
127.5°	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2	579.3	581.5	583.5
130°	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0	605.4	607.8	610.1
132.5°	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5	631.5	633.5	635.5
135°	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8	666.1	668.5	670.8
137.5°	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5	700.1	701.8	703.4
140°	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2	722.4	723.5	724.7
142.5°	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2	741.2	742.3	743.4
145°	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1	769.9	769.8	769.6
147.5°	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0	795.5	794.9	794.4
150°	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9	811.9	810.9	809.8
152.5°	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2	826.0	824.9	823.7
155°	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9	846.6	845.3	844.0
157.5°	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1	863.0	861.9	860.7
160°	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	872.7	871.9	871.0
162.5°	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0	881.2	880.3	879.4
165°	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4	892.5	891.6	890.8
167.5°	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8	901.0	900.1	899.2
170°	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6	905.7	904.8	904.0
172.5°	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7	908.9	908.0	907.1
175°	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9	912.9	911.8	910.8
177.5°	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5	913.7	912.9	912.1
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	4.7	4.8	4.7	4.9	5.2	5.2	5.4	5.4	5.5	5.7	5.6
90°	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7	15.4	16.1	16.7
92.5°	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1	16.5	16.9	17.2
95°	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2	27.9	28.7	28.9
97.5°	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6	36.2	36.8	37.1
100°	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0	41.1	42.3	43.1
102.5°	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8	43.3	44.8	45.7
105°	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5	45.1	46.7	47.8
107.5°	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1	51.5	49.8	49.3
110°	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1	71.4	56.8	49.8



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3	130.8	77.3	50.8
115°	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4	203.4	135.5	96.3
117.5°	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1	401.6	385.2	359.7
120°	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2	488.9	490.7	481.6
122.5°	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9	517.9	519.1	517.6
125°	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6	560.6	561.7	562.4
127.5°	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1	600.6	602.1	602.9
130°	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2	625.8	627.4	628.1
132.5°	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5	649.9	651.2	651.9
135°	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2	684.7	686.2	686.7
137.5°	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5	716.9	718.4	718.9
140°	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4	737.7	739.0	739.3
142.5°	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6	756.9	758.1	758.3
145°	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6	783.6	784.7	784.9
147.5°	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2	806.9	807.7	807.8
150°	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6	821.5	822.4	822.5
152.5°	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8	834.7	835.6	835.6
155°	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6	852.5	853.4	853.2
157.5°	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7	867.6	868.6	868.6
160°	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3	876.3	877.1	877.0
162.5°	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5	884.5	885.5	885.4
165°	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5	894.5	895.5	895.5
167.5°	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8	902.9	903.8	903.7
170°	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1	907.0	908.0	908.0
172.5°	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2	910.2	911.3	911.1
175°	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7	913.6	914.6	914.5
177.5°	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0	913.8	914.6	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	5.7	5.5	5.7	5.7	5.7	5.5	5.7	5.6	5.7	5.5	5.4
90°	17.0	17.2	17.5	17.8	17.5	17.2	17.0	16.7	16.1	15.4	14.7
92.5°	17.2	17.4	17.6	17.8	17.6	17.4	17.2	17.2	16.9	16.5	16.1
95°	28.8	28.7	28.6	28.4	28.6	28.7	28.8	28.9	28.7	27.9	27.2
97.5°	37.3	37.5	37.7	37.9	37.7	37.5	37.3	37.1	36.8	36.2	35.6
100°	43.4	43.6	43.9	44.2	43.9	43.6	43.4	43.1	42.3	41.1	40.0
102.5°	46.2	46.6	46.9	47.4	46.9	46.6	46.2	45.7	44.8	43.3	41.8
105°	48.4	49.0	49.6	50.1	49.6	49.0	48.4	47.8	46.7	45.1	43.5
107.5°	49.9	50.4	51.0	51.6	51.0	50.4	49.9	49.3	49.8	51.5	53.1
110°	50.3	51.0	51.6	52.1	51.6	51.0	50.3	49.8	56.8	71.4	86.1



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	51.3	51.7	52.2	52.7	52.2	51.7	51.3	50.8	77.3	130.8	184.3
115°	85.8	75.2	64.7	54.1	64.7	75.2	85.8	96.3	135.5	203.4	271.4
117.5°	325.0	290.3	255.6	220.9	255.6	290.3	325.0	359.7	385.2	401.6	418.1
120°	461.8	442.1	422.3	402.5	422.3	442.1	461.8	481.6	490.7	488.9	487.2
122.5°	513.8	509.9	506.1	502.3	506.1	509.9	513.8	517.6	519.1	517.9	516.9
125°	562.8	563.3	563.7	564.1	563.7	563.3	562.8	562.4	561.7	560.6	559.6
127.5°	602.9	603.0	603.1	603.2	603.1	603.0	602.9	602.9	602.1	600.6	599.1
130°	627.9	627.8	627.6	627.5	627.6	627.8	627.9	628.1	627.4	625.8	624.2
132.5°	651.7	651.6	651.4	651.3	651.4	651.6	651.7	651.9	651.2	649.9	648.5
135°	686.5	686.2	685.9	685.6	685.9	686.2	686.5	686.7	686.2	684.7	683.2
137.5°	718.3	717.8	717.4	716.8	717.4	717.8	718.3	718.9	718.4	716.9	715.5
140°	738.6	737.8	737.1	736.4	737.1	737.8	738.6	739.3	739.0	737.7	736.4
142.5°	757.6	756.9	756.1	755.4	756.1	756.9	757.6	758.3	758.1	756.9	755.6
145°	784.1	783.3	782.6	781.9	782.6	783.3	784.1	784.9	784.7	783.6	782.6
147.5°	807.1	806.5	805.9	805.2	805.9	806.5	807.1	807.8	807.7	806.9	806.2
150°	821.7	821.0	820.2	819.5	820.2	821.0	821.7	822.5	822.4	821.5	820.6
152.5°	834.5	833.6	832.6	831.6	832.6	833.6	834.5	835.6	835.6	834.7	833.8
155°	852.1	850.9	849.7	848.6	849.7	850.9	852.1	853.2	853.4	852.5	851.6
157.5°	867.4	866.3	865.2	863.9	865.2	866.3	867.4	868.6	868.6	867.6	866.7
160°	876.0	875.0	874.0	873.0	874.0	875.0	876.0	877.0	877.1	876.3	875.3
162.5°	884.1	882.9	881.6	880.3	881.6	882.9	884.1	885.4	885.5	884.5	883.5
165°	894.5	893.5	892.5	891.5	892.5	893.5	894.5	895.5	895.5	894.5	893.5
167.5°	902.4	901.1	899.8	898.4	899.8	901.1	902.4	903.7	903.8	902.9	901.8
170°	906.6	905.3	904.0	902.7	904.0	905.3	906.6	908.0	908.0	907.0	906.1
172.5°	909.7	908.4	907.1	905.8	907.1	908.4	909.7	911.1	911.3	910.2	909.2
175°	912.9	911.5	910.0	908.6	910.0	911.5	912.9	914.5	914.6	913.6	912.7
177.5°	913.5	912.4	911.3	910.3	911.3	912.4	913.5	914.5	914.6	913.8	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	5.4	5.2	5.2	4.9	4.7	4.8	4.7	4.5	4.5	4.7	5.1
90°	13.9	13.2	12.1	10.8	9.7	8.5	7.1	5.5	3.9	2.3	0.7
92.5°	15.6	15.3	14.7	14.1	13.6	13.0	12.7	12.9	13.0	13.2	13.3
95°	26.5	25.7	24.7	23.7	22.6	21.6	23.6	28.4	33.2	38.1	42.9
97.5°	35.1	34.4	32.0	29.7	27.3	25.0	30.5	44.2	57.9	71.4	85.1
100°	38.7	37.6	35.2	32.6	30.2	27.6	36.5	56.6	76.6	96.7	116.8
102.5°	40.2	38.6	59.5	80.4	101.2	122.1	134.6	138.8	143.1	147.4	151.7
105°	41.8	40.2	80.3	120.3	160.3	200.4	218.2	213.8	209.4	205.0	200.6
107.5°	54.7	56.4	104.3	152.4	200.4	248.4	270.6	267.0	263.5	260.0	256.4
110°	100.9	115.5	157.9	200.2	242.6	284.9	304.6	301.5	298.5	295.4	292.3



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	291.2	301.7	312.2	322.6	333.1	337.0	334.2	331.6	328.9	326.1
115°	339.2	407.1	403.4	399.8	396.2	392.5	389.4	386.9	384.4	381.9	379.4
117.5°	434.5	450.9	448.4	445.9	443.4	440.8	438.2	435.4	432.6	429.8	427.1
120°	485.4	483.6	481.0	478.3	475.7	473.1	470.7	468.4	466.3	464.1	461.8
122.5°	515.9	514.8	511.9	509.1	506.1	503.3	500.7	498.4	496.1	493.8	491.4
125°	558.6	557.5	554.8	552.0	549.2	546.4	544.0	542.2	540.3	538.4	536.4
127.5°	597.6	596.1	594.0	591.9	589.8	587.8	585.7	583.5	581.5	579.3	577.2
130°	622.5	620.9	619.3	617.6	616.0	614.4	612.5	610.1	607.8	605.4	603.0
132.5°	647.1	645.7	644.1	642.4	640.8	639.2	637.4	635.5	633.5	631.5	629.5
135°	681.7	680.3	679.0	677.7	676.4	675.0	673.2	670.8	668.5	666.1	663.8
137.5°	714.1	712.7	711.1	709.6	708.1	706.6	705.0	703.4	701.8	700.1	698.5
140°	735.1	733.8	732.1	730.5	728.9	727.3	725.9	724.7	723.5	722.4	721.2
142.5°	754.5	753.3	751.4	749.6	747.7	745.8	744.4	743.4	742.3	741.2	740.2
145°	781.7	780.6	778.1	775.6	773.1	770.6	769.4	769.6	769.8	769.9	770.1
147.5°	805.4	804.6	802.1	799.7	797.2	794.8	793.8	794.4	794.9	795.5	796.0
150°	819.7	818.9	816.5	814.2	811.8	809.5	808.8	809.8	810.9	811.9	812.9
152.5°	832.9	832.1	829.8	827.6	825.4	823.1	822.6	823.7	824.9	826.0	827.2
155°	850.7	849.9	848.1	846.3	844.6	842.8	842.6	844.0	845.3	846.6	847.9
157.5°	865.6	864.6	863.4	862.1	860.9	859.7	859.7	860.7	861.9	863.0	864.1
160°	874.5	873.6	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6
162.5°	882.5	881.6	880.8	880.1	879.2	878.4	878.5	879.4	880.3	881.2	882.0
165°	892.5	891.5	891.0	890.5	890.1	889.7	889.9	890.8	891.6	892.5	893.4
167.5°	900.8	899.8	899.4	898.9	898.5	898.1	898.3	899.2	900.1	901.0	901.8
170°	905.0	904.0	903.7	903.4	903.1	902.8	903.1	904.0	904.8	905.7	906.6
172.5°	908.1	907.1	906.8	906.5	906.3	906.0	906.3	907.1	908.0	908.9	909.7
175°	911.6	910.6	910.3	910.0	909.6	909.4	909.7	910.8	911.8	912.9	913.9
177.5°	912.2	911.3	911.3	911.2	911.0	910.9	911.3	912.1	912.9	913.7	914.5
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	4.5	4.1	4.1	4.3	4.8	5.0	5.1	5.3	5.7	5.7	6.0
90°	2.3	3.9	5.5	7.1	8.5	9.7	10.8	12.1	13.2	13.9	14.7
92.5°	13.2	13.0	12.9	12.7	13.0	13.6	14.1	14.7	15.3	15.6	16.1
95°	38.1	33.2	28.4	23.6	21.6	22.6	23.7	24.7	25.7	26.5	27.2
97.5°	71.4	57.9	44.2	30.5	25.0	27.3	29.7	32.0	34.4	35.1	35.6
100°	96.7	76.6	56.6	36.5	27.6	30.2	32.6	35.2	37.6	38.7	40.0
102.5°	147.4	143.1	138.8	134.6	122.1	101.2	80.4	59.5	38.6	40.2	41.8
105°	205.0	209.4	213.8	218.2	200.4	160.3	120.3	80.3	40.2	41.8	43.5
107.5°	260.0	263.5	267.0	270.6	248.4	200.4	152.4	104.3	56.4	54.7	53.1
110°	295.4	298.5	301.5	304.6	284.9	242.6	200.2	157.9	115.5	100.9	86.1



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	328.9	331.6	334.2	337.0	333.1	322.6	312.2	301.7	291.2	237.8	184.3
115°	381.9	384.4	386.9	389.4	392.5	396.2	399.8	403.4	407.1	339.2	271.4
117.5°	429.8	432.6	435.4	438.2	440.8	443.4	445.9	448.4	450.9	434.5	418.1
120°	464.1	466.3	468.4	470.7	473.1	475.7	478.3	481.0	483.6	485.4	487.2
122.5°	493.8	496.1	498.4	500.7	503.3	506.1	509.1	511.9	514.8	515.9	516.9
125°	538.4	540.3	542.2	544.0	546.4	549.2	552.0	554.8	557.5	558.6	559.6
127.5°	579.3	581.5	583.5	585.7	587.8	589.8	591.9	594.0	596.1	597.6	599.1
130°	605.4	607.8	610.1	612.5	614.4	616.0	617.6	619.3	620.9	622.5	624.2
132.5°	631.5	633.5	635.5	637.4	639.2	640.8	642.4	644.1	645.7	647.1	648.5
135°	666.1	668.5	670.8	673.2	675.0	676.4	677.7	679.0	680.3	681.7	683.2
137.5°	700.1	701.8	703.4	705.0	706.6	708.1	709.6	711.1	712.7	714.1	715.5
140°	722.4	723.5	724.7	725.9	727.3	728.9	730.5	732.1	733.8	735.1	736.4
142.5°	741.2	742.3	743.4	744.4	745.8	747.7	749.6	751.4	753.3	754.5	755.6
145°	769.9	769.8	769.6	769.4	770.6	773.1	775.6	778.1	780.6	781.7	782.6
147.5°	795.5	794.9	794.4	793.8	794.8	797.2	799.7	802.1	804.6	805.4	806.2
150°	811.9	810.9	809.8	808.8	809.5	811.8	814.2	816.5	818.9	819.7	820.6
152.5°	826.0	824.9	823.7	822.6	823.1	825.4	827.6	829.8	832.1	832.9	833.8
155°	846.6	845.3	844.0	842.6	842.8	844.6	846.3	848.1	849.9	850.7	851.6
157.5°	863.0	861.9	860.7	859.7	859.7	860.9	862.1	863.4	864.6	865.6	866.7
160°	872.7	871.9	871.0	870.1	870.1	871.0	871.9	872.7	873.6	874.5	875.3
162.5°	881.2	880.3	879.4	878.5	878.4	879.2	880.1	880.8	881.6	882.5	883.5
165°	892.5	891.6	890.8	889.9	889.7	890.1	890.5	891.0	891.5	892.5	893.5
167.5°	901.0	900.1	899.2	898.3	898.1	898.5	898.9	899.4	899.8	900.8	901.8
170°	905.7	904.8	904.0	903.1	902.8	903.1	903.4	903.7	904.0	905.0	906.1
172.5°	908.9	908.0	907.1	906.3	906.0	906.3	906.5	906.8	907.1	908.1	909.2
175°	912.9	911.8	910.8	909.7	909.4	909.6	910.0	910.3	910.6	911.6	912.7
177.5°	913.7	912.9	912.1	911.3	910.9	911.0	911.2	911.3	911.3	912.2	913.0
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9	911.9



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

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°	6.0	6.1	6.2	6.3	6.3	6.4	6.3
90°	15.4	16.1	16.7	17.0	17.2	17.5	17.8
92.5°	16.5	16.9	17.2	17.2	17.4	17.6	17.8
95°	27.9	28.7	28.9	28.8	28.7	28.6	28.4
97.5°	36.2	36.8	37.1	37.3	37.5	37.7	37.9
100°	41.1	42.3	43.1	43.4	43.6	43.9	44.2
102.5°	43.3	44.8	45.7	46.2	46.6	46.9	47.4
105°	45.1	46.7	47.8	48.4	49.0	49.6	50.1
107.5°	51.5	49.8	49.3	49.9	50.4	51.0	51.6
110°	71.4	56.8	49.8	50.3	51.0	51.6	52.1



TEST NUMBER: P331769-830

CATALOG NUMBER: S122RDIW-S290D710U830-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	130.8	77.3	50.8	51.3	51.7	52.2	52.7
115°	203.4	135.5	96.3	85.8	75.2	64.7	54.1
117.5°	401.6	385.2	359.7	325.0	290.3	255.6	220.9
120°	488.9	490.7	481.6	461.8	442.1	422.3	402.5
122.5°	517.9	519.1	517.6	513.8	509.9	506.1	502.3
125°	560.6	561.7	562.4	562.8	563.3	563.7	564.1
127.5°	600.6	602.1	602.9	602.9	603.0	603.1	603.2
130°	625.8	627.4	628.1	627.9	627.8	627.6	627.5
132.5°	649.9	651.2	651.9	651.7	651.6	651.4	651.3
135°	684.7	686.2	686.7	686.5	686.2	685.9	685.6
137.5°	716.9	718.4	718.9	718.3	717.8	717.4	716.8
140°	737.7	739.0	739.3	738.6	737.8	737.1	736.4
142.5°	756.9	758.1	758.3	757.6	756.9	756.1	755.4
145°	783.6	784.7	784.9	784.1	783.3	782.6	781.9
147.5°	806.9	807.7	807.8	807.1	806.5	805.9	805.2
150°	821.5	822.4	822.5	821.7	821.0	820.2	819.5
152.5°	834.7	835.6	835.6	834.5	833.6	832.6	831.6
155°	852.5	853.4	853.2	852.1	850.9	849.7	848.6
157.5°	867.6	868.6	868.6	867.4	866.3	865.2	863.9
160°	876.3	877.1	877.0	876.0	875.0	874.0	873.0
162.5°	884.5	885.5	885.4	884.1	882.9	881.6	880.3
165°	894.5	895.5	895.5	894.5	893.5	892.5	891.5
167.5°	902.9	903.8	903.7	902.4	901.1	899.8	898.4
170°	907.0	908.0	908.0	906.6	905.3	904.0	902.7
172.5°	910.2	911.3	911.1	909.7	908.4	907.1	905.8
175°	913.6	914.6	914.5	912.9	911.5	910.0	908.6
177.5°	913.8	914.6	914.5	913.5	912.4	911.3	910.3
180°	911.9	911.9	911.9	911.9	911.9	911.9	911.9

(END OF REPORT)