

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: P331472

Luminaire Tested: **S122DIW-S290D710U835-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331472
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: S122DIW-S290D710U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 710 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3766.3 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

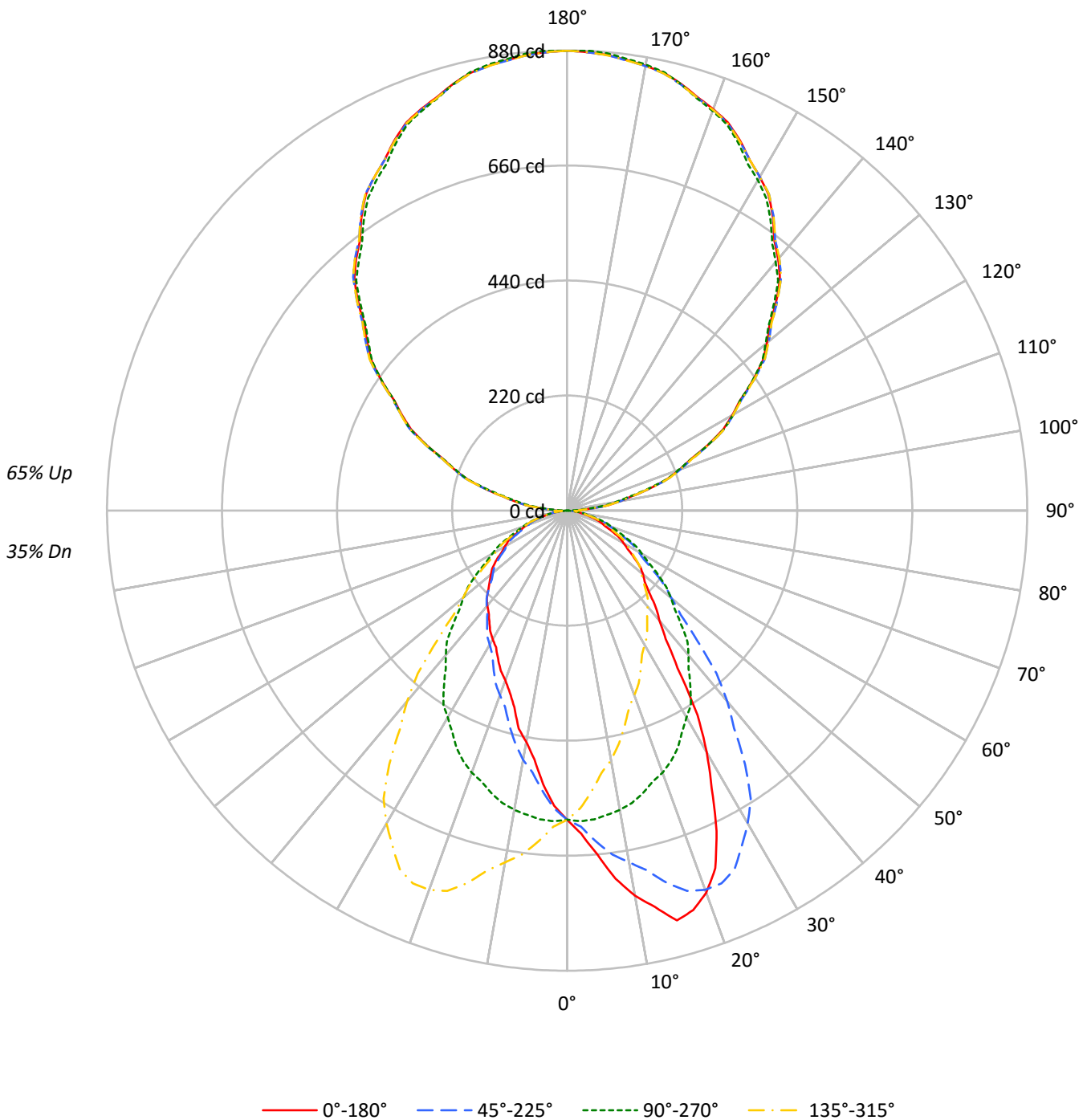
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	91	87	84	85	82	79	76	66	64	62	51	50	49	38	37	36	30
2	86	79	74	69	78	72	67	63	58	55	52	45	43	41	34	32	31	26
3	79	70	63	58	71	64	58	53	52	47	44	40	38	35	30	28	27	22
4	72	62	55	49	65	57	50	45	46	41	38	36	33	30	27	25	23	19
5	67	55	48	42	60	51	44	39	41	36	33	33	29	26	24	22	20	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	22	20	18	15
7	57	45	37	32	51	41	34	30	34	29	25	27	23	21	20	18	16	13
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	16	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	17	15	13	11
10	46	34	27	23	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9544	9544	9544	9544
5°	10699	9606	8512	9606
10°	12260	9527	7366	9527
15°	13563	9352	6509	9352
20°	13357	9165	5933	9165
25°	12043	8915	5569	8915
30°	9952	8516	5302	8516
35°	7253	8099	5113	8099
40°	5794	7609	5008	7609
45°	5062	7040	4866	7040
50°	4760	6488	4770	6488
55°	4386	5928	4642	5928
60°	4020	5331	4447	5331
65°	3664	4798	4252	4798
70°	3323	4277	3970	4277
75°	2951	3699	3512	3699
80°	2538	3059	2827	3059
85°	2279	2279	1686	2279



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.5
10°-20°	163.7	4.3
20°-30°	237.5	6.3
30°-40°	250.6	6.7
40°-50°	221.9	5.9
50°-60°	177.1	4.7
60°-70°	120.4	3.2
70°-80°	61.7	1.6
80°-90°	18.4	0.5
90°-100°	55.7	1.5
100°-110°	173.1	4.6
110°-120°	295.8	7.9
120°-130°	389.0	10.3
130°-140°	436.6	11.6
140°-150°	428.1	11.4
150°-160°	359.1	9.5
160°-170°	238.2	6.3
170°-180°	83.2	2.2
0°-30°	457.5	12.1
0°-40°	708.1	18.8
0°-60°	1107.1	29.4
0°-90°	1307.6	34.7
90°-120°	524.6	13.9
90°-150°	1778.3	47.2
90°-180°	2459.0	65.3
0°-180°	3766.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	14
90°	25	1	25	1	25	12
95°	46	39	46	39	46	51
105°	165	160	165	160	165	173
115°	297	297	297	297	297	293
125°	433	432	433	432	433	386
135°	565	559	565	559	565	435
145°	686	678	686	678	686	428
155°	781	775	781	775	781	360
165°	844	844	844	844	844	238
175°	875	878	875	878	875	83
180°	879	879	879	879	879	



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	9.8	9.7	9.9	9.7	9.6	9.8	9.9	9.8	10.0	10.3	9.7
90°	25.2	25.1	24.9	24.7	24.6	24.7	25.0	25.3	25.6	26.0	22.3
92.5°	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.7	23.7	23.6	22.7
95°	46.0	46.3	46.7	47.0	47.3	47.5	47.5	47.5	47.5	47.5	47.2
97.5°	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.2
100°	101.7	101.8	102.0	102.2	102.3	102.4	102.4	102.4	102.4	102.4	101.9
102.5°	126.6	126.8	126.9	127.1	127.3	127.3	127.1	127.0	126.9	126.7	126.1
105°	164.7	164.7	164.7	164.7	164.7	164.6	164.2	163.9	163.6	163.3	162.9
107.5°	200.7	201.4	202.2	202.9	203.7	204.0	203.9	203.7	203.6	203.5	203.5
110°	228.6	229.0	229.5	230.0	230.5	230.8	230.8	230.8	230.8	230.8	230.8



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	255.3	255.6	256.0	256.4	256.7	257.1	257.5	257.9	258.3	258.7	258.8
115°	296.8	297.3	297.8	298.3	298.8	299.1	299.3	299.5	299.6	299.8	300.1
117.5°	336.4	336.9	337.4	337.9	338.4	338.9	339.3	339.7	340.1	340.5	341.4
120°	364.3	364.8	365.3	365.8	366.3	366.6	366.6	366.6	366.6	366.6	367.9
122.5°	391.7	392.0	392.4	392.7	393.1	393.5	393.9	394.3	394.7	395.1	396.0
125°	433.4	433.5	433.7	433.9	434.0	434.3	434.8	435.3	435.8	436.3	436.8
127.5°	471.4	471.9	472.4	472.9	473.5	474.0	474.6	475.2	475.8	476.4	477.0
130°	498.7	499.3	500.0	500.6	501.3	501.8	502.1	502.5	502.8	503.1	503.4
132.5°	524.8	525.3	525.8	526.4	526.9	527.5	528.2	529.0	529.7	530.4	530.4
135°	565.4	565.9	566.4	566.9	567.4	567.8	567.9	568.1	568.2	568.4	568.1
137.5°	602.2	602.9	603.6	604.2	604.9	605.3	605.4	605.5	605.7	605.8	605.4
140°	627.8	628.4	629.1	629.8	630.4	630.7	630.7	630.7	630.7	630.7	629.9
142.5°	650.9	651.6	652.2	652.9	653.6	653.8	653.7	653.6	653.4	653.3	652.7
145°	685.7	686.3	687.0	687.6	688.3	688.5	688.4	688.2	688.0	687.9	686.9
147.5°	716.7	717.3	717.9	718.6	719.2	719.3	718.9	718.6	718.2	717.9	717.2
150°	736.9	737.4	737.8	738.3	738.8	738.8	738.3	737.8	737.4	736.9	736.2
152.5°	755.9	756.5	757.1	757.7	758.4	758.4	757.7	757.1	756.5	755.9	755.1
155°	781.4	781.9	782.4	782.9	783.4	783.2	782.4	781.5	780.7	779.9	779.4
157.5°	803.3	804.1	804.9	805.7	806.5	806.3	805.2	804.1	803.0	801.9	801.6
160°	817.0	817.7	818.3	819.0	819.6	819.5	818.5	817.5	816.5	815.5	815.3
162.5°	828.9	829.7	830.5	831.2	832.0	831.9	830.8	829.6	828.5	827.4	827.2
165°	844.5	845.3	846.1	846.9	847.8	847.6	846.4	845.3	844.1	843.0	843.0
167.5°	857.2	858.1	858.9	859.8	860.6	860.5	859.3	858.2	857.0	855.9	855.9
170°	863.7	864.7	865.7	866.7	867.7	867.6	866.5	865.3	864.2	863.0	863.2
172.5°	869.1	870.1	871.1	872.1	873.0	873.0	871.8	870.7	869.5	868.3	868.5
175°	874.9	875.9	876.9	877.8	878.8	878.8	877.6	876.4	875.3	874.1	874.5
177.5°	877.5	878.3	879.1	879.9	880.7	880.7	879.9	879.1	878.3	877.5	877.8
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	9.2	8.5	7.7	7.5	6.6	6.2	5.1	4.1	4.4	4.6	4.6
90°	18.7	15.1	11.5	8.7	6.7	4.7	2.7	0.7	2.7	4.7	6.7
92.5°	21.9	21.0	20.2	19.0	17.6	16.1	14.7	13.2	14.7	16.1	17.6
95°	46.8	46.5	46.2	45.2	43.5	41.9	40.2	38.6	40.2	41.9	43.5
97.5°	78.6	78.0	77.3	76.3	74.8	73.4	71.9	70.5	71.9	73.4	74.8
100°	101.4	100.9	100.4	99.5	98.2	96.9	95.6	94.2	95.6	96.9	98.2
102.5°	125.5	124.9	124.2	123.4	122.3	121.3	120.2	119.2	120.2	121.3	122.3
105°	162.6	162.3	161.9	161.5	161.0	160.5	160.0	159.5	160.0	160.5	161.0
107.5°	203.5	203.5	203.5	203.1	202.4	201.7	200.9	200.2	200.9	201.7	202.4
110°	230.8	230.8	230.8	230.3	229.3	228.3	227.3	226.3	227.3	228.3	229.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	258.9	259.1	259.2	258.8	257.8	256.8	255.8	254.8	255.8	256.8	257.8
115°	300.4	300.8	301.1	300.8	299.8	298.8	297.8	296.8	297.8	298.8	299.8
117.5°	342.3	343.2	344.1	343.9	342.6	341.3	340.0	338.7	340.0	341.3	342.6
120°	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6	367.9	369.2	370.5
122.5°	396.9	397.8	398.8	398.4	396.8	395.3	393.7	392.1	393.7	395.3	396.8
125°	437.3	437.8	438.3	437.8	436.3	434.8	433.4	431.9	433.4	434.8	436.3
127.5°	477.6	478.2	478.8	478.1	476.2	474.4	472.5	470.6	472.5	474.4	476.2
130°	503.8	504.1	504.4	503.5	501.4	499.2	497.1	494.9	497.1	499.2	501.4
132.5°	530.3	530.2	530.2	529.2	527.5	525.8	524.0	522.3	524.0	525.8	527.5
135°	567.8	567.4	567.1	566.0	564.2	562.4	560.6	558.8	560.6	562.4	564.2
137.5°	605.0	604.5	604.1	603.1	601.7	600.2	598.7	597.2	598.7	600.2	601.7
140°	629.1	628.3	627.4	626.3	624.8	623.3	621.8	620.4	621.8	623.3	624.8
142.5°	652.2	651.6	651.1	650.0	648.6	647.1	645.6	644.1	645.6	647.1	648.6
145°	685.9	684.9	683.9	682.9	681.7	680.5	679.4	678.2	679.4	680.5	681.7
147.5°	716.5	715.9	715.2	714.2	712.8	711.4	710.0	708.7	710.0	711.4	712.8
150°	735.5	734.9	734.2	733.4	732.4	731.4	730.4	729.4	730.4	731.4	732.4
152.5°	754.3	753.5	752.7	751.8	750.8	749.8	748.8	747.8	748.8	749.8	750.8
155°	778.9	778.4	777.9	777.4	776.9	776.4	775.9	775.4	775.9	776.4	776.9
157.5°	801.3	801.0	800.7	800.4	800.0	799.7	799.4	799.0	799.4	799.7	800.0
160°	815.2	815.0	814.9	814.6	814.3	813.9	813.6	813.3	813.6	813.9	814.3
162.5°	827.1	826.9	826.7	826.6	826.5	826.5	826.4	826.3	826.4	826.5	826.5
165°	843.0	843.0	843.0	843.1	843.2	843.4	843.5	843.7	843.5	843.4	843.2
167.5°	855.9	856.0	856.0	856.3	856.8	857.3	857.8	858.3	857.8	857.3	856.8
170°	863.3	863.5	863.7	864.0	864.5	865.0	865.5	866.0	865.5	865.0	864.5
172.5°	868.7	868.8	869.0	869.3	869.8	870.3	870.8	871.3	870.8	870.3	869.8
175°	874.8	875.1	875.5	875.9	876.4	876.9	877.4	877.8	877.4	876.9	876.4
177.5°	878.1	878.3	878.6	878.9	879.3	879.7	880.1	880.5	880.1	879.7	879.3
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	4.8	5.2	5.7	6.5	7.0	7.6	7.3	7.2	7.2	6.7	6.7
90°	8.7	11.5	15.1	18.7	22.3	26.0	25.6	25.3	25.0	24.7	24.6
92.5°	19.0	20.2	21.0	21.9	22.7	23.6	23.7	23.7	23.8	23.9	23.9
95°	45.2	46.2	46.5	46.8	47.2	47.5	47.5	47.5	47.5	47.5	47.3
97.5°	76.3	77.3	78.0	78.6	79.2	79.8	79.8	79.8	79.8	79.8	79.8
100°	99.5	100.4	100.9	101.4	101.9	102.4	102.4	102.4	102.4	102.4	102.3
102.5°	123.4	124.2	124.9	125.5	126.1	126.7	126.9	127.0	127.1	127.3	127.3
105°	161.5	161.9	162.3	162.6	162.9	163.3	163.6	163.9	164.2	164.6	164.7
107.5°	203.1	203.5	203.5	203.5	203.5	203.5	203.6	203.7	203.9	204.0	203.7
110°	230.3	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.8	230.5



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	258.8	259.2	259.1	258.9	258.8	258.7	258.3	257.9	257.5	257.1	256.7
115°	300.8	301.1	300.8	300.4	300.1	299.8	299.6	299.5	299.3	299.1	298.8
117.5°	343.9	344.1	343.2	342.3	341.4	340.5	340.1	339.7	339.3	338.9	338.4
120°	371.8	371.8	370.5	369.2	367.9	366.6	366.6	366.6	366.6	366.6	366.3
122.5°	398.4	398.8	397.8	396.9	396.0	395.1	394.7	394.3	393.9	393.5	393.1
125°	437.8	438.3	437.8	437.3	436.8	436.3	435.8	435.3	434.8	434.3	434.0
127.5°	478.1	478.8	478.2	477.6	477.0	476.4	475.8	475.2	474.6	474.0	473.5
130°	503.5	504.4	504.1	503.8	503.4	503.1	502.8	502.5	502.1	501.8	501.3
132.5°	529.2	530.2	530.2	530.3	530.4	530.4	529.7	529.0	528.2	527.5	526.9
135°	566.0	567.1	567.4	567.8	568.1	568.4	568.2	568.1	567.9	567.8	567.4
137.5°	603.1	604.1	604.5	605.0	605.4	605.8	605.7	605.5	605.4	605.3	604.9
140°	626.3	627.4	628.3	629.1	629.9	630.7	630.7	630.7	630.7	630.7	630.4
142.5°	650.0	651.1	651.6	652.2	652.7	653.3	653.4	653.6	653.7	653.8	653.6
145°	682.9	683.9	684.9	685.9	686.9	687.9	688.0	688.2	688.4	688.5	688.3
147.5°	714.2	715.2	715.9	716.5	717.2	717.9	718.2	718.6	718.9	719.3	719.2
150°	733.4	734.2	734.9	735.5	736.2	736.9	737.4	737.8	738.3	738.8	738.8
152.5°	751.8	752.7	753.5	754.3	755.1	755.9	756.5	757.1	757.7	758.4	758.4
155°	777.4	777.9	778.4	778.9	779.4	779.9	780.7	781.5	782.4	783.2	783.4
157.5°	800.4	800.7	801.0	801.3	801.6	801.9	803.0	804.1	805.2	806.3	806.5
160°	814.6	814.9	815.0	815.2	815.3	815.5	816.5	817.5	818.5	819.5	819.6
162.5°	826.6	826.7	826.9	827.1	827.2	827.4	828.5	829.6	830.8	831.9	832.0
165°	843.1	843.0	843.0	843.0	843.0	843.0	844.1	845.3	846.4	847.6	847.8
167.5°	856.3	856.0	856.0	855.9	855.9	855.9	857.0	858.2	859.3	860.5	860.6
170°	864.0	863.7	863.5	863.3	863.2	863.0	864.2	865.3	866.5	867.6	867.7
172.5°	869.3	869.0	868.8	868.7	868.5	868.3	869.5	870.7	871.8	873.0	873.0
175°	875.9	875.5	875.1	874.8	874.5	874.1	875.3	876.4	877.6	878.8	878.8
177.5°	878.9	878.6	878.3	878.1	877.8	877.5	878.3	879.1	879.9	880.7	880.7
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	6.8	6.6	6.6	6.5	6.6	6.6	6.8	6.7	6.7	7.2	7.2
90°	24.7	24.9	25.1	25.2	25.1	24.9	24.7	24.6	24.7	25.0	25.3
92.5°	23.9	24.0	24.0	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.7
95°	47.0	46.7	46.3	46.0	46.3	46.7	47.0	47.3	47.5	47.5	47.5
97.5°	79.8	79.8	79.7	79.7	79.7	79.8	79.8	79.8	79.8	79.8	79.8
100°	102.2	102.0	101.8	101.7	101.8	102.0	102.2	102.3	102.4	102.4	102.4
102.5°	127.1	126.9	126.8	126.6	126.8	126.9	127.1	127.3	127.3	127.1	127.0
105°	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.7	164.6	164.2	163.9
107.5°	202.9	202.2	201.4	200.7	201.4	202.2	202.9	203.7	204.0	203.9	203.7
110°	230.0	229.5	229.0	228.6	229.0	229.5	230.0	230.5	230.8	230.8	230.8



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	256.4	256.0	255.6	255.3	255.6	256.0	256.4	256.7	257.1	257.5	257.9
115°	298.3	297.8	297.3	296.8	297.3	297.8	298.3	298.8	299.1	299.3	299.5
117.5°	337.9	337.4	336.9	336.4	336.9	337.4	337.9	338.4	338.9	339.3	339.7
120°	365.8	365.3	364.8	364.3	364.8	365.3	365.8	366.3	366.6	366.6	366.6
122.5°	392.7	392.4	392.0	391.7	392.0	392.4	392.7	393.1	393.5	393.9	394.3
125°	433.9	433.7	433.5	433.4	433.5	433.7	433.9	434.0	434.3	434.8	435.3
127.5°	472.9	472.4	471.9	471.4	471.9	472.4	472.9	473.5	474.0	474.6	475.2
130°	500.6	500.0	499.3	498.7	499.3	500.0	500.6	501.3	501.8	502.1	502.5
132.5°	526.4	525.8	525.3	524.8	525.3	525.8	526.4	526.9	527.5	528.2	529.0
135°	566.9	566.4	565.9	565.4	565.9	566.4	566.9	567.4	567.8	567.9	568.1
137.5°	604.2	603.6	602.9	602.2	602.9	603.6	604.2	604.9	605.3	605.4	605.5
140°	629.8	629.1	628.4	627.8	628.4	629.1	629.8	630.4	630.7	630.7	630.7
142.5°	652.9	652.2	651.6	650.9	651.6	652.2	652.9	653.6	653.8	653.7	653.6
145°	687.6	687.0	686.3	685.7	686.3	687.0	687.6	688.3	688.5	688.4	688.2
147.5°	718.6	717.9	717.3	716.7	717.3	717.9	718.6	719.2	719.3	718.9	718.6
150°	738.3	737.8	737.4	736.9	737.4	737.8	738.3	738.8	738.8	738.3	737.8
152.5°	757.7	757.1	756.5	755.9	756.5	757.1	757.7	758.4	758.4	757.7	757.1
155°	782.9	782.4	781.9	781.4	781.9	782.4	782.9	783.4	783.2	782.4	781.5
157.5°	805.7	804.9	804.1	803.3	804.1	804.9	805.7	806.5	806.3	805.2	804.1
160°	819.0	818.3	817.7	817.0	817.7	818.3	819.0	819.6	819.5	818.5	817.5
162.5°	831.2	830.5	829.7	828.9	829.7	830.5	831.2	832.0	831.9	830.8	829.6
165°	846.9	846.1	845.3	844.5	845.3	846.1	846.9	847.8	847.6	846.4	845.3
167.5°	859.8	858.9	858.1	857.2	858.1	858.9	859.8	860.6	860.5	859.3	858.2
170°	866.7	865.7	864.7	863.7	864.7	865.7	866.7	867.7	867.6	866.5	865.3
172.5°	872.1	871.1	870.1	869.1	870.1	871.1	872.1	873.0	873.0	871.8	870.7
175°	877.8	876.9	875.9	874.9	875.9	876.9	877.8	878.8	878.8	877.6	876.4
177.5°	879.9	879.1	878.3	877.5	878.3	879.1	879.9	880.7	880.7	879.9	879.1
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	7.3	7.6	7.0	6.5	5.7	5.2	4.8	4.6	4.6	4.4	4.1
90°	25.6	26.0	22.3	18.7	15.1	11.5	8.7	6.7	4.7	2.7	0.7
92.5°	23.7	23.6	22.7	21.9	21.0	20.2	19.0	17.6	16.1	14.7	13.2
95°	47.5	47.5	47.2	46.8	46.5	46.2	45.2	43.5	41.9	40.2	38.6
97.5°	79.8	79.8	79.2	78.6	78.0	77.3	76.3	74.8	73.4	71.9	70.5
100°	102.4	102.4	101.9	101.4	100.9	100.4	99.5	98.2	96.9	95.6	94.2
102.5°	126.9	126.7	126.1	125.5	124.9	124.2	123.4	122.3	121.3	120.2	119.2
105°	163.6	163.3	162.9	162.6	162.3	161.9	161.5	161.0	160.5	160.0	159.5
107.5°	203.6	203.5	203.5	203.5	203.5	203.5	203.1	202.4	201.7	200.9	200.2
110°	230.8	230.8	230.8	230.8	230.8	230.8	230.3	229.3	228.3	227.3	226.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	258.3	258.7	258.8	258.9	259.1	259.2	258.8	257.8	256.8	255.8	254.8
115°	299.6	299.8	300.1	300.4	300.8	301.1	300.8	299.8	298.8	297.8	296.8
117.5°	340.1	340.5	341.4	342.3	343.2	344.1	343.9	342.6	341.3	340.0	338.7
120°	366.6	366.6	367.9	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6
122.5°	394.7	395.1	396.0	396.9	397.8	398.8	398.4	396.8	395.3	393.7	392.1
125°	435.8	436.3	436.8	437.3	437.8	438.3	437.8	436.3	434.8	433.4	431.9
127.5°	475.8	476.4	477.0	477.6	478.2	478.8	478.1	476.2	474.4	472.5	470.6
130°	502.8	503.1	503.4	503.8	504.1	504.4	503.5	501.4	499.2	497.1	494.9
132.5°	529.7	530.4	530.4	530.3	530.2	530.2	529.2	527.5	525.8	524.0	522.3
135°	568.2	568.4	568.1	567.8	567.4	567.1	566.0	564.2	562.4	560.6	558.8
137.5°	605.7	605.8	605.4	605.0	604.5	604.1	603.1	601.7	600.2	598.7	597.2
140°	630.7	630.7	629.9	629.1	628.3	627.4	626.3	624.8	623.3	621.8	620.4
142.5°	653.4	653.3	652.7	652.2	651.6	651.1	650.0	648.6	647.1	645.6	644.1
145°	688.0	687.9	686.9	685.9	684.9	683.9	682.9	681.7	680.5	679.4	678.2
147.5°	718.2	717.9	717.2	716.5	715.9	715.2	714.2	712.8	711.4	710.0	708.7
150°	737.4	736.9	736.2	735.5	734.9	734.2	733.4	732.4	731.4	730.4	729.4
152.5°	756.5	755.9	755.1	754.3	753.5	752.7	751.8	750.8	749.8	748.8	747.8
155°	780.7	779.9	779.4	778.9	778.4	777.9	777.4	776.9	776.4	775.9	775.4
157.5°	803.0	801.9	801.6	801.3	801.0	800.7	800.4	800.0	799.7	799.4	799.0
160°	816.5	815.5	815.3	815.2	815.0	814.9	814.6	814.3	813.9	813.6	813.3
162.5°	828.5	827.4	827.2	827.1	826.9	826.7	826.6	826.5	826.5	826.4	826.3
165°	844.1	843.0	843.0	843.0	843.0	843.0	843.1	843.2	843.4	843.5	843.7
167.5°	857.0	855.9	855.9	855.9	856.0	856.0	856.3	856.8	857.3	857.8	858.3
170°	864.2	863.0	863.2	863.3	863.5	863.7	864.0	864.5	865.0	865.5	866.0
172.5°	869.5	868.3	868.5	868.7	868.8	869.0	869.3	869.8	870.3	870.8	871.3
175°	875.3	874.1	874.5	874.8	875.1	875.5	875.9	876.4	876.9	877.4	877.8
177.5°	878.3	877.5	877.8	878.1	878.3	878.6	878.9	879.3	879.7	880.1	880.5
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	5.1	6.2	6.6	7.5	7.7	8.5	9.2	9.7	10.3	10.0	9.8
90°	2.7	4.7	6.7	8.7	11.5	15.1	18.7	22.3	26.0	25.6	25.3
92.5°	14.7	16.1	17.6	19.0	20.2	21.0	21.9	22.7	23.6	23.7	23.7
95°	40.2	41.9	43.5	45.2	46.2	46.5	46.8	47.2	47.5	47.5	47.5
97.5°	71.9	73.4	74.8	76.3	77.3	78.0	78.6	79.2	79.8	79.8	79.8
100°	95.6	96.9	98.2	99.5	100.4	100.9	101.4	101.9	102.4	102.4	102.4
102.5°	120.2	121.3	122.3	123.4	124.2	124.9	125.5	126.1	126.7	126.9	127.0
105°	160.0	160.5	161.0	161.5	161.9	162.3	162.6	162.9	163.3	163.6	163.9
107.5°	200.9	201.7	202.4	203.1	203.5	203.5	203.5	203.5	203.5	203.6	203.7
110°	227.3	228.3	229.3	230.3	230.8	230.8	230.8	230.8	230.8	230.8	230.8



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	255.8	256.8	257.8	258.8	259.2	259.1	258.9	258.8	258.7	258.3	257.9
115°	297.8	298.8	299.8	300.8	301.1	300.8	300.4	300.1	299.8	299.6	299.5
117.5°	340.0	341.3	342.6	343.9	344.1	343.2	342.3	341.4	340.5	340.1	339.7
120°	367.9	369.2	370.5	371.8	371.8	370.5	369.2	367.9	366.6	366.6	366.6
122.5°	393.7	395.3	396.8	398.4	398.8	397.8	396.9	396.0	395.1	394.7	394.3
125°	433.4	434.8	436.3	437.8	438.3	437.8	437.3	436.8	436.3	435.8	435.3
127.5°	472.5	474.4	476.2	478.1	478.8	478.2	477.6	477.0	476.4	475.8	475.2
130°	497.1	499.2	501.4	503.5	504.4	504.1	503.8	503.4	503.1	502.8	502.5
132.5°	524.0	525.8	527.5	529.2	530.2	530.2	530.3	530.4	530.4	529.7	529.0
135°	560.6	562.4	564.2	566.0	567.1	567.4	567.8	568.1	568.4	568.2	568.1
137.5°	598.7	600.2	601.7	603.1	604.1	604.5	605.0	605.4	605.8	605.7	605.5
140°	621.8	623.3	624.8	626.3	627.4	628.3	629.1	629.9	630.7	630.7	630.7
142.5°	645.6	647.1	648.6	650.0	651.1	651.6	652.2	652.7	653.3	653.4	653.6
145°	679.4	680.5	681.7	682.9	683.9	684.9	685.9	686.9	687.9	688.0	688.2
147.5°	710.0	711.4	712.8	714.2	715.2	715.9	716.5	717.2	717.9	718.2	718.6
150°	730.4	731.4	732.4	733.4	734.2	734.9	735.5	736.2	736.9	737.4	737.8
152.5°	748.8	749.8	750.8	751.8	752.7	753.5	754.3	755.1	755.9	756.5	757.1
155°	775.9	776.4	776.9	777.4	777.9	778.4	778.9	779.4	779.9	780.7	781.5
157.5°	799.4	799.7	800.0	800.4	800.7	801.0	801.3	801.6	801.9	803.0	804.1
160°	813.6	813.9	814.3	814.6	814.9	815.0	815.2	815.3	815.5	816.5	817.5
162.5°	826.4	826.5	826.5	826.6	826.7	826.9	827.1	827.2	827.4	828.5	829.6
165°	843.5	843.4	843.2	843.1	843.0	843.0	843.0	843.0	843.0	844.1	845.3
167.5°	857.8	857.3	856.8	856.3	856.0	856.0	855.9	855.9	855.9	857.0	858.2
170°	865.5	865.0	864.5	864.0	863.7	863.5	863.3	863.2	863.0	864.2	865.3
172.5°	870.8	870.3	869.8	869.3	869.0	868.8	868.7	868.5	868.3	869.5	870.7
175°	877.4	876.9	876.4	875.9	875.5	875.1	874.8	874.5	874.1	875.3	876.4
177.5°	880.1	879.7	879.3	878.9	878.6	878.3	878.1	877.8	877.5	878.3	879.1
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3	879.3



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	9.9	9.8	9.6	9.7	9.9	9.7	9.8
90°	25.0	24.7	24.6	24.7	24.9	25.1	25.2
92.5°	23.8	23.9	23.9	23.9	24.0	24.0	24.0
95°	47.5	47.5	47.3	47.0	46.7	46.3	46.0
97.5°	79.8	79.8	79.8	79.8	79.8	79.7	79.7
100°	102.4	102.4	102.3	102.2	102.0	101.8	101.7
102.5°	127.1	127.3	127.3	127.1	126.9	126.8	126.6
105°	164.2	164.6	164.7	164.7	164.7	164.7	164.7
107.5°	203.9	204.0	203.7	202.9	202.2	201.4	200.7
110°	230.8	230.8	230.5	230.0	229.5	229.0	228.6



TEST NUMBER: P331472

CATALOG NUMBER: S122DIW-S290D710U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	257.5	257.1	256.7	256.4	256.0	255.6	255.3
115°	299.3	299.1	298.8	298.3	297.8	297.3	296.8
117.5°	339.3	338.9	338.4	337.9	337.4	336.9	336.4
120°	366.6	366.6	366.3	365.8	365.3	364.8	364.3
122.5°	393.9	393.5	393.1	392.7	392.4	392.0	391.7
125°	434.8	434.3	434.0	433.9	433.7	433.5	433.4
127.5°	474.6	474.0	473.5	472.9	472.4	471.9	471.4
130°	502.1	501.8	501.3	500.6	500.0	499.3	498.7
132.5°	528.2	527.5	526.9	526.4	525.8	525.3	524.8
135°	567.9	567.8	567.4	566.9	566.4	565.9	565.4
137.5°	605.4	605.3	604.9	604.2	603.6	602.9	602.2
140°	630.7	630.7	630.4	629.8	629.1	628.4	627.8
142.5°	653.7	653.8	653.6	652.9	652.2	651.6	650.9
145°	688.4	688.5	688.3	687.6	687.0	686.3	685.7
147.5°	718.9	719.3	719.2	718.6	717.9	717.3	716.7
150°	738.3	738.8	738.8	738.3	737.8	737.4	736.9
152.5°	757.7	758.4	758.4	757.7	757.1	756.5	755.9
155°	782.4	783.2	783.4	782.9	782.4	781.9	781.4
157.5°	805.2	806.3	806.5	805.7	804.9	804.1	803.3
160°	818.5	819.5	819.6	819.0	818.3	817.7	817.0
162.5°	830.8	831.9	832.0	831.2	830.5	829.7	828.9
165°	846.4	847.6	847.8	846.9	846.1	845.3	844.5
167.5°	859.3	860.5	860.6	859.8	858.9	858.1	857.2
170°	866.5	867.6	867.7	866.7	865.7	864.7	863.7
172.5°	871.8	873.0	873.0	872.1	871.1	870.1	869.1
175°	877.6	878.8	878.8	877.8	876.9	875.9	874.9
177.5°	879.9	880.7	880.7	879.9	879.1	878.3	877.5
180°	879.3	879.3	879.3	879.3	879.3	879.3	879.3

(END OF REPORT)