

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: P332499-930

Luminaire Tested: **SA4XXDIP-C350D590U930-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332499-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-C350D590U930-4F0-1E-UDD-A
Description: DEFINE 4 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 350 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 590 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

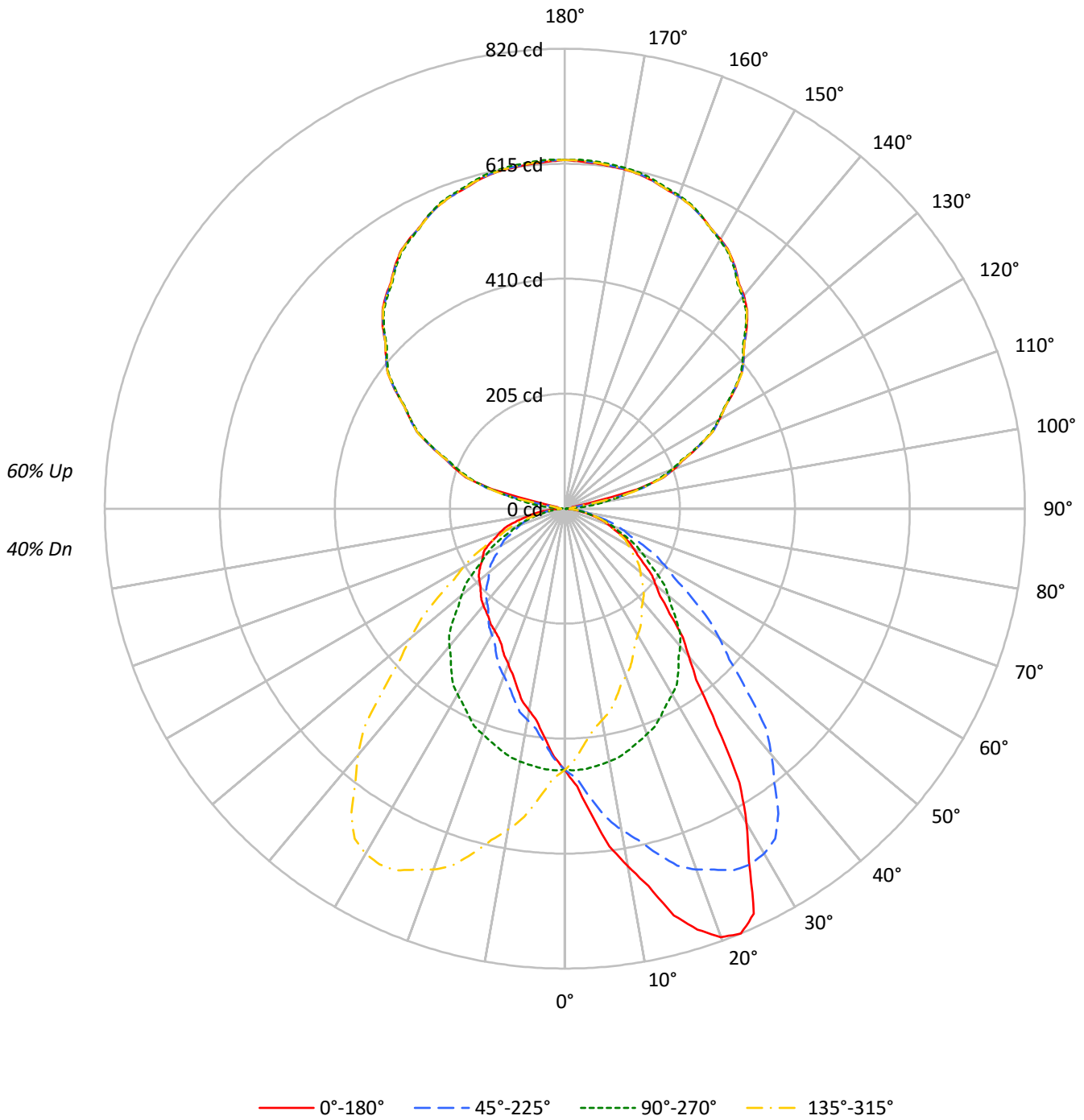
Lumens per Lamp: N/A
Luminaire Lumens: 3210.3 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	96	92	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29				
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	33	31	29	25				
4	73	62	55	49	66	57	51	45	47	42	38	38	35	32	30	27	25	21				
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19				
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19	16				
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17	15				
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16	13				
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				
10	46	34	27	22	42	32	25	21	27	22	18	22	18	15	17	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3760	3760	3760	3760
5°	4428	3770	3327	3770
10°	5302	3754	2995	3754
15°	6273	3716	2751	3716
20°	6985	3677	2533	3677
25°	7098	3619	2382	3619
30°	6040	3566	2335	3566
35°	4644	3476	2335	3476
40°	3620	3371	2380	3371
45°	3017	3214	2419	3214
50°	2656	3022	2501	3022
55°	2434	2792	2601	2792
60°	2280	2585	2722	2585
65°	2122	2355	2823	2355
70°	1940	2127	2887	2127
75°	1734	1871	2854	1871
80°	1450	1534	2762	1534
85°	1074	1112	2640	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.4
10°-20°	139.9	4.4
20°-30°	221.8	6.9
30°-40°	246.8	7.7
40°-50°	224.7	7.0
50°-60°	183.6	5.7
60°-70°	131.1	4.1
70°-80°	72.2	2.2
80°-90°	21.5	0.7
90°-100°	21.3	0.7
100°-110°	135.6	4.2
110°-120°	259.4	8.1
120°-130°	329.3	10.3
130°-140°	352.3	11.0
140°-150°	329.4	10.3
150°-160°	265.7	8.3
160°-170°	171.4	5.3
170°-180°	59.1	1.8
0°-30°	407.0	12.7
0°-40°	653.9	20.4
0°-60°	1062.2	33.1
0°-90°	1286.9	40.1
90°-120°	416.3	13.0
90°-150°	1427.3	44.5
90°-180°	1923.0	59.9
0°-180°	3210.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	466	466	466	466	466	
5°	546	465	411	465	546	56
15°	751	445	329	445	751	212
25°	797	406	267	406	797	351
35°	471	353	237	353	471	299
45°	264	282	212	282	264	208
55°	173	198	185	198	173	156
65°	111	123	148	123	111	110
75°	56	60	92	60	56	59
85°	12	12	28	12	12	14
90°	14	1	14	1	14	6
95°	14	26	14	26	14	11
105°	133	140	133	140	133	116
115°	263	261	263	261	263	261
125°	370	367	370	367	370	330
135°	459	456	459	456	459	353
145°	528	526	528	526	528	330
155°	576	576	576	576	576	265
165°	605	608	605	608	605	171
175°	618	622	618	622	618	59
180°	622	622	622	622	622	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	495.7	495.6	494.1	493.7	492.7	491.3	491.0	488.4	483.6	481.2	480.6
5°	546.4	550.3	545.3	544.3	543.7	537.4	534.1	530.3	521.4	516.2	512.1
7.5°	607.0	607.4	605.2	603.5	598.5	593.0	584.7	575.8	565.2	554.2	545.9
10°	646.8	648.3	645.8	645.5	635.6	629.4	617.1	606.7	594.7	581.4	569.2
12.5°	688.8	686.6	685.3	677.1	675.2	664.0	649.6	639.0	620.4	605.1	589.0
15°	750.6	746.3	743.6	732.3	726.7	711.0	695.8	684.0	659.9	636.9	619.5
17.5°	786.8	791.1	784.9	780.2	765.7	754.7	739.2	714.4	695.6	667.1	645.1
20°	813.1	813.5	810.0	805.2	793.9	779.9	763.0	736.0	713.4	685.0	654.8
22.5°	820.2	820.3	818.8	814.3	805.7	794.4	777.3	754.7	727.4	696.6	666.4
25°	796.9	796.1	797.9	802.9	799.6	796.1	786.3	769.5	744.0	711.4	679.0
27.5°	710.3	715.7	725.5	737.8	749.7	758.7	761.2	757.8	742.1	715.3	681.3
30°	647.9	654.5	661.9	674.2	698.1	711.8	726.8	738.3	731.9	710.5	678.8
32.5°	579.4	581.1	591.9	605.9	627.9	654.2	678.1	701.2	708.9	697.7	671.2
35°	471.2	473.9	485.7	499.5	526.4	558.6	594.5	626.6	653.0	663.6	650.0
37.5°	384.5	392.2	400.6	415.5	439.1	468.1	505.4	546.9	586.3	612.7	617.2
40°	343.5	348.3	354.2	365.7	385.7	414.3	446.3	493.7	535.7	573.5	585.8
42.5°	311.0	313.9	317.6	327.8	343.1	371.5	400.8	442.5	484.5	529.8	550.5
45°	264.3	267.3	273.5	279.4	291.0	310.6	337.9	372.2	414.5	458.0	496.3
47.5°	230.6	232.4	236.1	242.6	252.4	265.4	287.5	316.2	355.3	397.7	438.4
50°	211.5	213.0	215.9	221.7	229.3	240.8	258.9	285.8	316.4	359.1	399.0
52.5°	196.3	197.0	199.1	203.0	209.0	218.7	233.7	255.8	284.4	322.4	362.2
55°	172.9	173.7	175.6	178.5	183.7	189.9	201.2	217.8	242.7	275.7	310.3
57.5°	153.6	154.2	155.7	156.9	161.2	166.2	175.0	186.8	205.6	233.7	264.5
60°	141.2	140.9	142.8	143.7	146.7	150.9	157.7	169.0	185.4	208.0	236.4
62.5°	129.2	128.7	130.3	131.6	133.2	136.8	142.4	151.2	164.6	185.0	209.5
65°	111.1	110.4	111.4	112.9	114.4	116.3	120.4	128.3	138.9	153.6	172.3
67.5°	93.0	93.8	94.0	94.7	95.6	98.2	101.0	106.6	114.1	125.9	141.7
70°	82.2	82.4	83.2	83.2	83.7	86.1	88.4	91.6	99.0	109.8	122.7
72.5°	71.4	72.2	71.9	72.5	73.0	74.5	76.1	79.3	85.5	93.6	104.5
75°	55.6	56.2	56.2	56.3	56.9	57.5	58.9	61.1	65.6	71.6	79.1
77.5°	40.5	40.6	40.8	41.6	41.6	42.5	43.5	45.3	47.5	51.6	56.3
80°	31.2	31.6	31.5	31.9	31.9	32.6	33.0	35.3	36.3	39.0	42.6
82.5°	22.9	23.3	23.2	23.8	24.1	24.3	24.8	25.8	26.7	29.1	30.6
85°	11.6	12.0	11.6	12.0	12.6	12.7	13.3	13.5	14.3	14.8	16.2
87.5°	6.2	6.6	6.6	6.7	6.9	7.0	7.0	6.8	7.3	7.3	7.7
90°	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5	10.8	10.2	9.4
92.5°	12.8	12.8	12.7	12.7	12.6	12.3	11.7	11.1	10.5	9.9	9.0
95°	13.5	13.4	13.3	13.2	13.0	12.7	12.1	11.5	10.8	10.2	10.1
97.5°	13.0	12.9	12.8	12.7	12.6	12.6	12.5	12.4	12.3	12.3	23.8
100°	13.0	12.9	12.8	12.7	12.6	13.5	15.2	17.0	18.7	20.5	34.7
102.5°	13.4	13.4	13.4	13.4	13.3	22.7	41.7	60.7	79.7	98.6	100.4
105°	132.6	136.2	140.0	143.7	147.4	148.8	147.9	147.0	146.0	145.1	144.6
107.5°	184.7	184.3	183.9	183.5	183.1	182.7	182.3	181.8	181.4	180.9	180.2
110°	207.4	207.1	206.8	206.5	206.2	205.9	205.7	205.5	205.3	205.1	204.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	230.1	229.8	229.3	228.9	228.5	228.4	228.4	228.4	228.5	228.5	228.3
115°	263.3	263.3	263.3	263.3	263.3	263.1	262.9	262.7	262.5	262.3	262.4
117.5°	296.9	296.9	297.0	297.0	297.1	297.1	297.2	297.2	297.3	297.3	297.0
120°	318.1	318.3	318.5	318.7	318.9	318.9	318.7	318.5	318.3	318.1	318.2
122.5°	338.9	339.2	339.3	339.6	339.7	339.8	339.7	339.6	339.4	339.3	339.2
125°	370.2	370.1	370.0	369.9	369.8	369.6	369.2	368.9	368.7	368.4	368.5
127.5°	397.6	397.7	397.8	397.9	397.9	398.0	398.1	398.2	398.2	398.3	397.8
130°	416.2	416.2	416.2	416.2	416.2	416.2	416.0	416.0	415.9	415.8	415.5
132.5°	433.3	433.4	433.5	433.6	433.7	433.7	433.6	433.5	433.3	433.3	432.8
135°	459.0	458.9	458.6	458.4	458.2	458.0	457.8	457.5	457.4	457.1	456.7
137.5°	480.9	481.0	481.1	481.2	481.2	481.1	480.9	480.7	480.5	480.2	479.8
140°	496.2	496.1	496.0	495.9	495.8	495.6	495.3	495.0	494.6	494.4	494.2
142.5°	508.9	508.8	508.8	508.8	508.8	508.7	508.4	508.2	508.0	507.8	507.6
145°	528.3	528.2	527.9	527.7	527.5	527.3	527.3	527.1	527.0	526.9	526.9
147.5°	544.4	544.3	544.2	544.1	544.0	543.9	543.8	543.7	543.6	543.6	543.6
150°	554.8	554.7	554.6	554.5	554.4	554.3	554.3	554.3	554.3	554.3	554.5
152.5°	563.8	563.8	563.9	563.9	564.0	563.9	563.8	563.6	563.5	563.3	563.5
155°	575.8	576.1	576.3	576.7	577.0	576.9	576.5	576.1	575.7	575.3	575.6
157.5°	585.8	586.4	586.9	587.4	587.9	587.9	587.4	586.9	586.4	585.8	586.1
160°	592.5	593.1	593.7	594.4	595.0	595.0	594.4	593.7	593.1	592.5	592.6
162.5°	597.7	598.4	599.1	599.8	600.5	600.5	599.9	599.3	598.7	598.1	598.2
165°	605.0	606.0	606.9	607.8	608.8	608.9	608.0	607.2	606.3	605.5	605.5
167.5°	610.6	611.6	612.6	613.7	614.7	614.7	613.8	612.9	612.0	611.1	611.1
170°	613.9	614.9	616.0	617.0	618.0	618.2	617.3	616.4	615.6	614.8	614.7
172.5°	615.7	616.9	618.0	619.1	620.2	620.4	619.5	618.7	617.9	617.0	616.9
175°	618.1	619.3	620.5	621.8	623.1	623.2	622.2	621.3	620.4	619.5	619.4
177.5°	619.5	620.5	621.6	622.6	623.5	623.7	623.1	622.4	621.7	621.0	620.9
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	480.8	478.6	477.0	475.8	472.5	470.4	468.9	466.8	464.2	461.6	458.4
5°	508.0	501.5	496.7	489.3	482.4	476.6	470.6	465.2	458.7	451.5	446.3
7.5°	536.7	526.9	514.5	503.6	491.4	480.8	471.3	461.6	451.5	441.6	432.7
10°	555.0	542.4	528.5	512.1	496.7	483.0	470.3	457.9	445.9	434.0	423.7
12.5°	574.5	558.9	538.3	519.2	501.9	483.6	468.2	453.1	438.6	426.1	414.2
15°	600.9	578.3	554.6	528.9	506.1	484.7	463.7	444.6	428.4	411.7	400.1
17.5°	617.0	589.1	562.0	535.2	507.6	480.5	457.9	435.9	415.6	399.1	384.5
20°	627.7	599.9	566.1	539.3	506.5	478.7	452.5	428.0	406.8	389.2	374.1
22.5°	636.9	604.9	571.0	535.7	503.1	473.6	444.9	420.3	398.6	380.1	365.7
25°	642.0	605.1	568.4	533.3	496.3	461.4	435.3	406.3	383.2	363.7	348.3
27.5°	642.5	603.1	561.6	522.6	484.4	451.8	419.0	393.1	369.1	348.5	333.6
30°	640.8	599.7	555.1	512.9	474.5	439.2	410.6	382.5	357.9	337.5	322.0
32.5°	635.4	592.6	546.8	502.1	462.3	427.7	398.3	371.5	347.6	327.4	311.2
35°	619.8	577.5	528.7	482.2	441.5	406.6	379.9	352.7	328.8	309.7	294.1
37.5°	595.3	557.2	507.5	459.4	419.4	384.3	357.9	333.4	311.8	292.4	276.4
40°	574.1	540.5	490.6	443.8	400.6	367.2	342.5	319.9	298.5	280.1	264.9
42.5°	549.5	520.2	474.3	424.7	382.9	349.4	325.4	305.1	284.9	268.0	252.7
45°	505.7	486.4	443.2	397.3	353.8	322.2	299.3	281.5	264.6	247.9	235.2
47.5°	455.4	445.8	409.4	365.8	324.7	293.4	273.5	257.1	242.2	228.2	217.0
50°	421.6	416.9	385.6	343.5	304.1	274.8	254.7	240.6	227.9	215.6	204.9
52.5°	388.2	388.1	359.7	321.2	284.8	256.6	236.6	223.5	212.5	202.4	192.9
55°	337.3	342.7	320.5	286.2	253.6	228.0	210.1	198.4	190.6	182.4	175.2
57.5°	290.5	299.5	281.1	250.9	223.6	200.2	184.6	175.8	167.5	162.5	157.3
60°	259.9	268.4	254.1	228.7	203.0	183.0	168.0	160.1	153.0	149.5	145.9
62.5°	232.8	240.3	229.8	206.1	183.8	164.5	152.0	144.4	139.6	135.8	133.4
65°	194.0	200.3	191.2	174.1	154.9	139.5	129.3	123.3	118.7	117.2	114.4
67.5°	156.8	162.6	157.7	143.1	127.8	116.0	108.0	102.3	99.5	98.2	96.3
70°	134.7	140.5	135.3	122.5	110.7	100.9	93.4	90.1	87.2	86.7	84.0
72.5°	116.0	119.9	114.7	104.8	94.7	86.4	80.6	77.1	75.7	74.6	73.1
75°	87.0	90.5	87.0	79.3	72.2	66.4	61.4	60.0	58.3	57.7	56.7
77.5°	61.6	64.6	62.0	57.2	51.8	47.3	44.6	42.9	42.5	41.5	42.0
80°	47.0	49.0	46.5	43.2	39.0	35.9	34.0	33.0	31.9	31.5	32.2
82.5°	33.8	34.7	33.3	31.1	28.0	26.0	24.7	23.6	23.3	23.4	23.4
85°	17.5	17.4	17.2	15.2	14.3	13.0	12.1	12.0	11.7	12.1	12.6
87.5°	7.6	7.6	7.3	6.4	5.7	5.1	4.6	4.3	4.6	5.1	5.5
90°	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4	2.5	3.7	4.8
92.5°	8.2	7.4	6.5	6.1	6.0	6.0	6.0	5.9	6.0	6.0	6.0
95°	10.0	9.9	9.8	11.5	15.0	18.6	22.1	25.6	22.1	18.6	15.0
97.5°	35.4	46.9	58.4	63.1	60.9	58.7	56.5	54.3	56.5	58.7	60.9
100°	49.0	63.3	77.5	83.7	81.9	80.0	78.1	76.2	78.1	80.0	81.9
102.5°	102.3	104.2	106.1	106.3	104.9	103.5	102.2	100.9	102.2	103.5	104.9
105°	144.1	143.6	143.0	142.4	141.9	141.2	140.6	140.0	140.6	141.2	141.9
107.5°	179.5	178.8	178.1	177.6	177.2	177.0	176.7	176.3	176.7	177.0	177.2
110°	203.8	203.3	202.6	202.1	201.9	201.5	201.2	200.9	201.2	201.5	201.9



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	228.0	227.6	227.4	227.0	226.4	225.8	225.3	224.7	225.3	225.8	226.4
115°	262.5	262.6	262.7	262.6	262.3	262.0	261.7	261.4	261.7	262.0	262.3
117.5°	296.9	296.6	296.4	296.0	295.6	295.2	294.8	294.4	294.8	295.2	295.6
120°	318.3	318.5	318.5	318.4	318.0	317.6	317.2	316.7	317.2	317.6	318.0
122.5°	339.0	338.9	338.8	338.5	338.3	338.0	337.8	337.5	337.8	338.0	338.3
125°	368.8	368.9	369.2	369.1	368.7	368.3	367.8	367.4	367.8	368.3	368.7
127.5°	397.3	396.9	396.4	396.1	396.0	395.9	395.7	395.7	395.7	395.9	396.0
130°	415.2	414.8	414.5	414.3	414.3	414.1	414.0	413.9	414.0	414.1	414.3
132.5°	432.4	432.1	431.7	431.4	431.2	431.0	430.8	430.6	430.8	431.0	431.2
135°	456.3	455.9	455.5	455.3	455.4	455.6	455.7	455.8	455.7	455.6	455.4
137.5°	479.3	478.8	478.4	478.2	478.1	478.1	478.0	478.0	478.0	478.1	478.1
140°	494.0	493.7	493.5	493.3	493.1	492.9	492.7	492.5	492.7	492.9	493.1
142.5°	507.5	507.4	507.3	507.0	506.6	506.3	505.9	505.6	505.9	506.3	506.6
145°	526.9	526.9	526.9	526.8	526.4	526.1	525.9	525.5	525.9	526.1	526.4
147.5°	543.8	543.9	544.0	543.7	543.2	542.6	542.0	541.4	542.0	542.6	543.2
150°	554.6	554.6	554.8	554.6	554.2	553.8	553.3	552.9	553.3	553.8	554.2
152.5°	563.7	563.9	564.0	563.9	563.6	563.3	563.0	562.6	563.0	563.3	563.6
155°	575.9	576.3	576.5	576.7	576.5	576.4	576.3	576.3	576.3	576.4	576.5
157.5°	586.5	586.9	587.2	587.4	587.5	587.5	587.6	587.7	587.6	587.5	587.5
160°	592.7	592.8	592.9	593.1	593.5	593.7	594.0	594.4	594.0	593.7	593.5
162.5°	598.3	598.3	598.5	598.8	599.2	599.5	599.9	600.3	599.9	599.5	599.2
165°	605.5	605.5	605.5	605.8	606.3	606.8	607.3	607.8	607.3	606.8	606.3
167.5°	611.2	611.3	611.3	611.6	612.2	612.7	613.3	613.8	613.3	612.7	612.2
170°	614.6	614.5	614.4	614.7	615.3	615.9	616.5	617.2	616.5	615.9	615.3
172.5°	616.9	616.8	616.6	616.9	617.5	618.2	618.7	619.4	618.7	618.2	617.5
175°	619.3	619.1	619.1	619.3	620.0	620.5	621.2	621.8	621.2	620.5	620.0
177.5°	620.7	620.5	620.4	620.6	621.2	621.7	622.3	622.9	622.3	621.7	621.2
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	456.8	455.4	453.5	450.7	448.3	445.9	445.2	444.3	446.2	444.7	444.2
5°	441.9	437.8	432.6	426.6	423.1	418.2	417.2	415.2	413.3	413.1	411.2
7.5°	426.0	420.0	413.2	407.2	401.5	396.0	392.4	391.7	388.8	387.1	385.2
10°	415.8	408.5	400.6	394.8	388.2	382.5	378.4	376.1	374.1	372.0	370.1
12.5°	403.8	396.0	389.5	383.2	375.4	371.0	364.4	360.4	360.0	360.0	355.0
15°	389.8	382.0	372.0	363.1	358.9	350.4	346.7	342.1	339.2	336.3	334.0
17.5°	373.7	364.1	356.3	346.1	338.0	331.3	326.4	323.7	319.3	315.2	312.3
20°	363.7	353.5	345.2	334.4	325.5	317.2	313.2	309.3	306.1	302.6	299.3
22.5°	353.5	342.8	332.7	322.2	314.0	305.2	301.3	296.0	292.9	291.0	287.7
25°	337.5	325.9	314.3	304.3	295.8	288.0	282.9	278.8	275.3	273.8	271.7
27.5°	320.0	308.5	297.3	285.9	276.3	270.7	266.5	263.5	261.5	259.4	258.4
30°	308.9	296.9	285.0	274.3	265.5	259.9	256.1	254.0	252.4	251.4	250.5
32.5°	297.7	285.8	273.3	263.6	255.6	250.6	247.7	245.6	244.8	244.5	244.1
35°	279.6	267.7	256.1	247.4	239.9	237.9	235.4	234.2	233.8	235.2	235.8
37.5°	262.1	251.0	240.4	232.0	227.0	224.2	223.3	223.4	224.8	225.9	227.3
40°	250.9	240.0	230.0	222.7	218.0	216.3	215.9	216.9	218.4	219.8	221.4
42.5°	239.9	229.3	220.1	213.3	210.0	208.4	208.6	209.6	211.8	213.4	215.7
45°	222.9	214.0	205.1	199.5	196.8	197.2	197.2	198.9	201.1	203.6	206.1
47.5°	206.8	197.9	190.6	185.9	184.5	184.2	185.2	187.5	190.5	193.6	197.1
50°	196.1	187.5	181.2	176.9	175.4	175.9	177.5	179.6	183.3	187.2	190.9
52.5°	185.1	177.3	171.5	167.5	166.4	167.5	169.0	172.4	175.6	179.8	184.2
55°	168.0	161.5	156.9	154.0	153.6	154.2	155.9	159.6	164.2	169.4	173.7
57.5°	151.2	145.6	141.4	139.4	139.6	140.1	143.0	147.3	152.3	157.8	163.3
60°	139.7	134.7	131.2	129.6	129.9	131.0	134.5	138.5	144.7	150.1	155.9
62.5°	128.9	124.5	121.2	119.8	119.5	122.1	125.4	129.6	135.7	141.8	148.1
65°	111.5	108.0	105.3	104.6	105.2	107.1	111.4	116.9	122.1	128.5	135.1
67.5°	94.6	91.7	89.8	90.2	90.9	93.8	97.3	102.1	108.0	114.6	121.1
70°	83.7	81.0	79.5	79.7	80.9	84.3	87.4	92.2	98.6	105.3	110.7
72.5°	72.6	70.8	69.5	70.3	71.4	73.8	77.7	82.5	88.1	94.4	100.1
75°	55.8	55.8	55.0	55.6	57.3	59.6	62.5	67.5	73.1	78.2	82.8
77.5°	41.3	40.9	41.4	42.2	43.1	45.9	49.2	52.8	57.0	62.0	65.9
80°	31.6	31.9	32.8	34.0	34.3	36.4	39.9	43.2	46.5	50.7	54.4
82.5°	23.8	24.0	24.5	25.9	26.3	28.6	30.8	34.1	37.1	39.9	43.0
85°	13.0	13.0	13.9	14.5	15.4	17.0	18.3	20.3	23.0	24.9	27.8
87.5°	6.1	6.4	7.1	7.6	8.2	9.1	9.6	11.4	12.1	13.0	14.5
90°	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5	12.1	12.7	13.1
92.5°	6.1	6.5	7.4	8.2	9.0	9.9	10.5	11.1	11.7	12.3	12.6
95°	11.5	9.8	9.9	10.0	10.1	10.2	10.8	11.5	12.1	12.7	13.0
97.5°	63.1	58.4	46.9	35.4	23.8	12.3	12.3	12.4	12.5	12.6	12.6
100°	83.7	77.5	63.3	49.0	34.7	20.5	18.7	17.0	15.2	13.5	12.6
102.5°	106.3	106.1	104.2	102.3	100.4	98.6	79.7	60.7	41.7	22.7	13.3
105°	142.4	143.0	143.6	144.1	144.6	145.1	146.0	147.0	147.9	148.8	147.4
107.5°	177.6	178.1	178.8	179.5	180.2	180.9	181.4	181.8	182.3	182.7	183.1
110°	202.1	202.6	203.3	203.8	204.5	205.1	205.3	205.5	205.7	205.9	206.2



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	227.0	227.4	227.6	228.0	228.3	228.5	228.5	228.4	228.4	228.4	228.5
115°	262.6	262.7	262.6	262.5	262.4	262.3	262.5	262.7	262.9	263.1	263.3
117.5°	296.0	296.4	296.6	296.9	297.0	297.3	297.3	297.2	297.2	297.1	297.1
120°	318.4	318.5	318.5	318.3	318.2	318.1	318.3	318.5	318.7	318.9	318.9
122.5°	338.5	338.8	338.9	339.0	339.2	339.3	339.4	339.6	339.7	339.8	339.7
125°	369.1	369.2	368.9	368.8	368.5	368.4	368.7	368.9	369.2	369.6	369.8
127.5°	396.1	396.4	396.9	397.3	397.8	398.3	398.2	398.2	398.1	398.0	397.9
130°	414.3	414.5	414.8	415.2	415.5	415.8	415.9	416.0	416.0	416.2	416.2
132.5°	431.4	431.7	432.1	432.4	432.8	433.3	433.3	433.5	433.6	433.7	433.7
135°	455.3	455.5	455.9	456.3	456.7	457.1	457.4	457.5	457.8	458.0	458.2
137.5°	478.2	478.4	478.8	479.3	479.8	480.2	480.5	480.7	480.9	481.1	481.2
140°	493.3	493.5	493.7	494.0	494.2	494.4	494.6	495.0	495.3	495.6	495.8
142.5°	507.0	507.3	507.4	507.5	507.6	507.8	508.0	508.2	508.4	508.7	508.8
145°	526.8	526.9	526.9	526.9	526.9	526.9	527.0	527.1	527.3	527.3	527.5
147.5°	543.7	544.0	543.9	543.8	543.6	543.6	543.6	543.7	543.8	543.9	544.0
150°	554.6	554.8	554.6	554.6	554.5	554.3	554.3	554.3	554.3	554.3	554.4
152.5°	563.9	564.0	563.9	563.7	563.5	563.3	563.5	563.6	563.8	563.9	564.0
155°	576.7	576.5	576.3	575.9	575.6	575.3	575.7	576.1	576.5	576.9	577.0
157.5°	587.4	587.2	586.9	586.5	586.1	585.8	586.4	586.9	587.4	587.9	587.9
160°	593.1	592.9	592.8	592.7	592.6	592.5	593.1	593.7	594.4	595.0	595.0
162.5°	598.8	598.5	598.3	598.3	598.2	598.1	598.7	599.3	599.9	600.5	600.5
165°	605.8	605.5	605.5	605.5	605.5	605.5	606.3	607.2	608.0	608.9	608.8
167.5°	611.6	611.3	611.3	611.2	611.1	611.1	612.0	612.9	613.8	614.7	614.7
170°	614.7	614.4	614.5	614.6	614.7	614.8	615.6	616.4	617.3	618.2	618.0
172.5°	616.9	616.6	616.8	616.9	616.9	617.0	617.9	618.7	619.5	620.4	620.2
175°	619.3	619.1	619.1	619.3	619.4	619.5	620.4	621.3	622.2	623.2	623.1
177.5°	620.6	620.4	620.5	620.7	620.9	621.0	621.7	622.4	623.1	623.7	623.5
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	443.8	443.6	442.5	442.3	442.5	443.6	443.8	444.2	444.7	446.2	444.3
5°	410.0	409.0	408.5	410.6	408.5	409.0	410.0	411.2	413.1	413.3	415.2
7.5°	384.5	383.8	382.0	381.5	382.0	383.8	384.5	385.2	387.1	388.8	391.7
10°	368.2	367.4	365.8	365.4	365.8	367.4	368.2	370.1	372.0	374.1	376.1
12.5°	352.4	350.9	350.6	351.0	350.6	350.9	352.4	355.0	360.0	360.0	360.4
15°	331.5	330.7	328.6	329.2	328.6	330.7	331.5	334.0	336.3	339.2	342.1
17.5°	310.9	310.0	307.4	309.7	307.4	310.0	310.9	312.3	315.2	319.3	323.7
20°	297.9	296.4	295.1	294.8	295.1	296.4	297.9	299.3	302.6	306.1	309.3
22.5°	285.6	284.2	284.1	282.8	284.1	284.2	285.6	287.7	291.0	292.9	296.0
25°	270.1	268.8	268.4	267.4	268.4	268.8	270.1	271.7	273.8	275.3	278.8
27.5°	258.3	257.6	256.9	257.2	256.9	257.6	258.3	258.4	259.4	261.5	263.5
30°	251.0	250.9	250.5	250.5	250.5	250.9	251.0	250.5	251.4	252.4	254.0
32.5°	245.0	245.0	245.2	245.2	245.2	245.0	245.0	244.1	244.5	244.8	245.6
35°	236.6	237.2	237.5	236.9	237.5	237.2	236.6	235.8	235.2	233.8	234.2
37.5°	228.9	229.5	230.1	230.7	230.1	229.5	228.9	227.3	225.9	224.8	223.4
40°	223.1	224.4	224.8	225.8	224.8	224.4	223.1	221.4	219.8	218.4	216.9
42.5°	217.5	219.0	220.0	220.2	220.0	219.0	217.5	215.7	213.4	211.8	209.6
45°	209.0	210.5	211.9	211.9	211.9	210.5	209.0	206.1	203.6	201.1	198.9
47.5°	200.2	202.4	203.7	204.1	203.7	202.4	200.2	197.1	193.6	190.5	187.5
50°	194.1	196.8	198.2	199.1	198.2	196.8	194.1	190.9	187.2	183.3	179.6
52.5°	188.3	190.9	192.7	193.2	192.7	190.9	188.3	184.2	179.8	175.6	172.4
55°	178.1	182.0	184.1	184.8	184.1	182.0	178.1	173.7	169.4	164.2	159.6
57.5°	168.5	172.1	174.6	175.1	174.6	172.1	168.5	163.3	157.8	152.3	147.3
60°	161.1	165.0	168.0	168.6	168.0	165.0	161.1	155.9	150.1	144.7	138.5
62.5°	153.5	157.6	160.4	161.8	160.4	157.6	153.5	148.1	141.8	135.7	129.6
65°	140.5	144.6	147.2	147.8	147.2	144.6	140.5	135.1	128.5	122.1	116.9
67.5°	126.2	130.3	132.0	133.1	132.0	130.3	126.2	121.1	114.6	108.0	102.1
70°	116.2	119.4	121.4	122.3	121.4	119.4	116.2	110.7	105.3	98.6	92.2
72.5°	104.8	108.2	110.4	110.6	110.4	108.2	104.8	100.1	94.4	88.1	82.5
75°	87.2	90.3	91.5	91.5	91.5	90.3	87.2	82.8	78.2	73.1	67.5
77.5°	69.1	70.6	72.1	72.4	72.1	70.6	69.1	65.9	62.0	57.0	52.8
80°	57.3	58.3	59.4	59.4	59.4	58.3	57.3	54.4	50.7	46.5	43.2
82.5°	45.2	46.1	47.2	47.0	47.2	46.1	45.2	43.0	39.9	37.1	34.1
85°	27.4	29.1	28.9	28.5	28.9	29.1	27.4	27.8	24.9	23.0	20.3
87.5°	15.0	15.2	15.7	16.1	15.7	15.2	15.0	14.5	13.0	12.1	11.4
90°	13.4	13.5	13.8	13.9	13.8	13.5	13.4	13.1	12.7	12.1	11.5
92.5°	12.7	12.7	12.8	12.8	12.8	12.7	12.7	12.6	12.3	11.7	11.1
95°	13.2	13.3	13.4	13.5	13.4	13.3	13.2	13.0	12.7	12.1	11.5
97.5°	12.7	12.8	12.9	13.0	12.9	12.8	12.7	12.6	12.6	12.5	12.4
100°	12.7	12.8	12.9	13.0	12.9	12.8	12.7	12.6	13.5	15.2	17.0
102.5°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	22.7	41.7	60.7
105°	143.7	140.0	136.2	132.6	136.2	140.0	143.7	147.4	148.8	147.9	147.0
107.5°	183.5	183.9	184.3	184.7	184.3	183.9	183.5	183.1	182.7	182.3	181.8
110°	206.5	206.8	207.1	207.4	207.1	206.8	206.5	206.2	205.9	205.7	205.5



TEST NUMBER: P332499-930
 CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	228.9	229.3	229.8	230.1	229.8	229.3	228.9	228.5	228.4	228.4	228.4
115°	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.3	263.1	262.9	262.7
117.5°	297.0	297.0	296.9	296.9	296.9	297.0	297.0	297.1	297.1	297.2	297.2
120°	318.7	318.5	318.3	318.1	318.3	318.5	318.7	318.9	318.9	318.7	318.5
122.5°	339.6	339.3	339.2	338.9	339.2	339.3	339.6	339.7	339.8	339.7	339.6
125°	369.9	370.0	370.1	370.2	370.1	370.0	369.9	369.8	369.6	369.2	368.9
127.5°	397.9	397.8	397.7	397.6	397.7	397.8	397.9	397.9	398.0	398.1	398.2
130°	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.2	416.0	416.0
132.5°	433.6	433.5	433.4	433.3	433.4	433.5	433.6	433.7	433.7	433.6	433.5
135°	458.4	458.6	458.9	459.0	458.9	458.6	458.4	458.2	458.0	457.8	457.5
137.5°	481.2	481.1	481.0	480.9	481.0	481.1	481.2	481.2	481.1	480.9	480.7
140°	495.9	496.0	496.1	496.2	496.1	496.0	495.9	495.8	495.6	495.3	495.0
142.5°	508.8	508.8	508.8	508.9	508.8	508.8	508.8	508.8	508.7	508.4	508.2
145°	527.7	527.9	528.2	528.3	528.2	527.9	527.7	527.5	527.3	527.3	527.1
147.5°	544.1	544.2	544.3	544.4	544.3	544.2	544.1	544.0	543.9	543.8	543.7
150°	554.5	554.6	554.7	554.8	554.7	554.6	554.5	554.4	554.3	554.3	554.3
152.5°	563.9	563.9	563.8	563.8	563.8	563.9	563.9	564.0	563.9	563.8	563.6
155°	576.7	576.3	576.1	575.8	576.1	576.3	576.7	577.0	576.9	576.5	576.1
157.5°	587.4	586.9	586.4	585.8	586.4	586.9	587.4	587.9	587.9	587.4	586.9
160°	594.4	593.7	593.1	592.5	593.1	593.7	594.4	595.0	595.0	594.4	593.7
162.5°	599.8	599.1	598.4	597.7	598.4	599.1	599.8	600.5	600.5	599.9	599.3
165°	607.8	606.9	606.0	605.0	606.0	606.9	607.8	608.8	608.9	608.0	607.2
167.5°	613.7	612.6	611.6	610.6	611.6	612.6	613.7	614.7	614.7	613.8	612.9
170°	617.0	616.0	614.9	613.9	614.9	616.0	617.0	618.0	618.2	617.3	616.4
172.5°	619.1	618.0	616.9	615.7	616.9	618.0	619.1	620.2	620.4	619.5	618.7
175°	621.8	620.5	619.3	618.1	619.3	620.5	621.8	623.1	623.2	622.2	621.3
177.5°	622.6	621.6	620.5	619.5	620.5	621.6	622.6	623.5	623.7	623.1	622.4
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	445.2	445.9	448.3	450.7	453.5	455.4	456.8	458.4	461.6	464.2	466.8
5°	417.2	418.2	423.1	426.6	432.6	437.8	441.9	446.3	451.5	458.7	465.2
7.5°	392.4	396.0	401.5	407.2	413.2	420.0	426.0	432.7	441.6	451.5	461.6
10°	378.4	382.5	388.2	394.8	400.6	408.5	415.8	423.7	434.0	445.9	457.9
12.5°	364.4	371.0	375.4	383.2	389.5	396.0	403.8	414.2	426.1	438.6	453.1
15°	346.7	350.4	358.9	363.1	372.0	382.0	389.8	400.1	411.7	428.4	444.6
17.5°	326.4	331.3	338.0	346.1	356.3	364.1	373.7	384.5	399.1	415.6	435.9
20°	313.2	317.2	325.5	334.4	345.2	353.5	363.7	374.1	389.2	406.8	428.0
22.5°	301.3	305.2	314.0	322.2	332.7	342.8	353.5	365.7	380.1	398.6	420.3
25°	282.9	288.0	295.8	304.3	314.3	325.9	337.5	348.3	363.7	383.2	406.3
27.5°	266.5	270.7	276.3	285.9	297.3	308.5	320.0	333.6	348.5	369.1	393.1
30°	256.1	259.9	265.5	274.3	285.0	296.9	308.9	322.0	337.5	357.9	382.5
32.5°	247.7	250.6	255.6	263.6	273.3	285.8	297.7	311.2	327.4	347.6	371.5
35°	235.4	237.9	239.9	247.4	256.1	267.7	279.6	294.1	309.7	328.8	352.7
37.5°	223.3	224.2	227.0	232.0	240.4	251.0	262.1	276.4	292.4	311.8	333.4
40°	215.9	216.3	218.0	222.7	230.0	240.0	250.9	264.9	280.1	298.5	319.9
42.5°	208.6	208.4	210.0	213.3	220.1	229.3	239.9	252.7	268.0	284.9	305.1
45°	197.2	197.2	196.8	199.5	205.1	214.0	222.9	235.2	247.9	264.6	281.5
47.5°	185.2	184.2	184.5	185.9	190.6	197.9	206.8	217.0	228.2	242.2	257.1
50°	177.5	175.9	175.4	176.9	181.2	187.5	196.1	204.9	215.6	227.9	240.6
52.5°	169.0	167.5	166.4	167.5	171.5	177.3	185.1	192.9	202.4	212.5	223.5
55°	155.9	154.2	153.6	154.0	156.9	161.5	168.0	175.2	182.4	190.6	198.4
57.5°	143.0	140.1	139.6	139.4	141.4	145.6	151.2	157.3	162.5	167.5	175.8
60°	134.5	131.0	129.9	129.6	131.2	134.7	139.7	145.9	149.5	153.0	160.1
62.5°	125.4	122.1	119.5	119.8	121.2	124.5	128.9	133.4	135.8	139.6	144.4
65°	111.4	107.1	105.2	104.6	105.3	108.0	111.5	114.4	117.2	118.7	123.3
67.5°	97.3	93.8	90.9	90.2	89.8	91.7	94.6	96.3	98.2	99.5	102.3
70°	87.4	84.3	80.9	79.7	79.5	81.0	83.7	84.0	86.7	87.2	90.1
72.5°	77.7	73.8	71.4	70.3	69.5	70.8	72.6	73.1	74.6	75.7	77.1
75°	62.5	59.6	57.3	55.6	55.0	55.8	55.8	56.7	57.7	58.3	60.0
77.5°	49.2	45.9	43.1	42.2	41.4	40.9	41.3	42.0	41.5	42.5	42.9
80°	39.9	36.4	34.3	34.0	32.8	31.9	31.6	32.2	31.5	31.9	33.0
82.5°	30.8	28.6	26.3	25.9	24.5	24.0	23.8	23.4	23.4	23.3	23.6
85°	18.3	17.0	15.4	14.5	13.9	13.0	13.0	12.6	12.1	11.7	12.0
87.5°	9.6	9.1	8.2	7.6	7.1	6.4	6.1	5.5	5.1	4.6	4.3
90°	10.8	10.2	9.4	8.6	7.7	6.9	6.0	4.8	3.7	2.5	1.4
92.5°	10.5	9.9	9.0	8.2	7.4	6.5	6.1	6.0	6.0	6.0	5.9
95°	10.8	10.2	10.1	10.0	9.9	9.8	11.5	15.0	18.6	22.1	25.6
97.5°	12.3	12.3	23.8	35.4	46.9	58.4	63.1	60.9	58.7	56.5	54.3
100°	18.7	20.5	34.7	49.0	63.3	77.5	83.7	81.9	80.0	78.1	76.2
102.5°	79.7	98.6	100.4	102.3	104.2	106.1	106.3	104.9	103.5	102.2	100.9
105°	146.0	145.1	144.6	144.1	143.6	143.0	142.4	141.9	141.2	140.6	140.0
107.5°	181.4	180.9	180.2	179.5	178.8	178.1	177.6	177.2	177.0	176.7	176.3
110°	205.3	205.1	204.5	203.8	203.3	202.6	202.1	201.9	201.5	201.2	200.9



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	228.5	228.5	228.3	228.0	227.6	227.4	227.0	226.4	225.8	225.3	224.7
115°	262.5	262.3	262.4	262.5	262.6	262.7	262.6	262.3	262.0	261.7	261.4
117.5°	297.3	297.3	297.0	296.9	296.6	296.4	296.0	295.6	295.2	294.8	294.4
120°	318.3	318.1	318.2	318.3	318.5	318.5	318.4	318.0	317.6	317.2	316.7
122.5°	339.4	339.3	339.2	339.0	338.9	338.8	338.5	338.3	338.0	337.8	337.5
125°	368.7	368.4	368.5	368.8	368.9	369.2	369.1	368.7	368.3	367.8	367.4
127.5°	398.2	398.3	397.8	397.3	396.9	396.4	396.1	396.0	395.9	395.7	395.7
130°	415.9	415.8	415.5	415.2	414.8	414.5	414.3	414.3	414.1	414.0	413.9
132.5°	433.3	433.3	432.8	432.4	432.1	431.7	431.4	431.2	431.0	430.8	430.6
135°	457.4	457.1	456.7	456.3	455.9	455.5	455.3	455.4	455.6	455.7	455.8
137.5°	480.5	480.2	479.8	479.3	478.8	478.4	478.2	478.1	478.1	478.0	478.0
140°	494.6	494.4	494.2	494.0	493.7	493.5	493.3	493.1	492.9	492.7	492.5
142.5°	508.0	507.8	507.6	507.5	507.4	507.3	507.0	506.6	506.3	505.9	505.6
145°	527.0	526.9	526.9	526.9	526.9	526.9	526.8	526.4	526.1	525.9	525.5
147.5°	543.6	543.6	543.6	543.8	543.9	544.0	543.7	543.2	542.6	542.0	541.4
150°	554.3	554.3	554.5	554.6	554.6	554.8	554.6	554.2	553.8	553.3	552.9
152.5°	563.5	563.3	563.5	563.7	563.9	564.0	563.9	563.6	563.3	563.0	562.6
155°	575.7	575.3	575.6	575.9	576.3	576.5	576.7	576.5	576.4	576.3	576.3
157.5°	586.4	585.8	586.1	586.5	586.9	587.2	587.4	587.5	587.5	587.6	587.7
160°	593.1	592.5	592.6	592.7	592.8	592.9	593.1	593.5	593.7	594.0	594.4
162.5°	598.7	598.1	598.2	598.3	598.3	598.5	598.8	599.2	599.5	599.9	600.3
165°	606.3	605.5	605.5	605.5	605.5	605.5	605.8	606.3	606.8	607.3	607.8
167.5°	612.0	611.1	611.1	611.2	611.3	611.3	611.6	612.2	612.7	613.3	613.8
170°	615.6	614.8	614.7	614.6	614.5	614.4	614.7	615.3	615.9	616.5	617.2
172.5°	617.9	617.0	616.9	616.9	616.8	616.6	616.9	617.5	618.2	618.7	619.4
175°	620.4	619.5	619.4	619.3	619.1	619.1	619.3	620.0	620.5	621.2	621.8
177.5°	621.7	621.0	620.9	620.7	620.5	620.4	620.6	621.2	621.7	622.3	622.9
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	468.9	470.4	472.5	475.8	477.0	478.6	480.8	480.6	481.2	483.6	488.4
5°	470.6	476.6	482.4	489.3	496.7	501.5	508.0	512.1	516.2	521.4	530.3
7.5°	471.3	480.8	491.4	503.6	514.5	526.9	536.7	545.9	554.2	565.2	575.8
10°	470.3	483.0	496.7	512.1	528.5	542.4	555.0	569.2	581.4	594.7	606.7
12.5°	468.2	483.6	501.9	519.2	538.3	558.9	574.5	589.0	605.1	620.4	639.0
15°	463.7	484.7	506.1	528.9	554.6	578.3	600.9	619.5	636.9	659.9	684.0
17.5°	457.9	480.5	507.6	535.2	562.0	589.1	617.0	645.1	667.1	695.6	714.4
20°	452.5	478.7	506.5	539.3	566.1	599.9	627.7	654.8	685.0	713.4	736.0
22.5°	444.9	473.6	503.1	535.7	571.0	604.9	636.9	666.4	696.6	727.4	754.7
25°	435.3	461.4	496.3	533.3	568.4	605.1	642.0	679.0	711.4	744.0	769.5
27.5°	419.0	451.8	484.4	522.6	561.6	603.1	642.5	681.3	715.3	742.1	757.8
30°	410.6	439.2	474.5	512.9	555.1	599.7	640.8	678.8	710.5	731.9	738.3
32.5°	398.3	427.7	462.3	502.1	546.8	592.6	635.4	671.2	697.7	708.9	701.2
35°	379.9	406.6	441.5	482.2	528.7	577.5	619.8	650.0	663.6	653.0	626.6
37.5°	357.9	384.3	419.4	459.4	507.5	557.2	595.3	617.2	612.7	586.3	546.9
40°	342.5	367.2	400.6	443.8	490.6	540.5	574.1	585.8	573.5	535.7	493.7
42.5°	325.4	349.4	382.9	424.7	474.3	520.2	549.5	550.5	529.8	484.5	442.5
45°	299.3	322.2	353.8	397.3	443.2	486.4	505.7	496.3	458.0	414.5	372.2
47.5°	273.5	293.4	324.7	365.8	409.4	445.8	455.4	438.4	397.7	355.3	316.2
50°	254.7	274.8	304.1	343.5	385.6	416.9	421.6	399.0	359.1	316.4	285.8
52.5°	236.6	256.6	284.8	321.2	359.7	388.1	388.2	362.2	322.4	284.4	255.8
55°	210.1	228.0	253.6	286.2	320.5	342.7	337.3	310.3	275.7	242.7	217.8
57.5°	184.6	200.2	223.6	250.9	281.1	299.5	290.5	264.5	233.7	205.6	186.8
60°	168.0	183.0	203.0	228.7	254.1	268.4	259.9	236.4	208.0	185.4	169.0
62.5°	152.0	164.5	183.8	206.1	229.8	240.3	232.8	209.5	185.0	164.6	151.2
65°	129.3	139.5	154.9	174.1	191.2	200.3	194.0	172.3	153.6	138.9	128.3
67.5°	108.0	116.0	127.8	143.1	157.7	162.6	156.8	141.7	125.9	114.1	106.6
70°	93.4	100.9	110.7	122.5	135.3	140.5	134.7	122.7	109.8	99.0	91.6
72.5°	80.6	86.4	94.7	104.8	114.7	119.9	116.0	104.5	93.6	85.5	79.3
75°	61.4	66.4	72.2	79.3	87.0	90.5	87.0	79.1	71.6	65.6	61.1
77.5°	44.6	47.3	51.8	57.2	62.0	64.6	61.6	56.3	51.6	47.5	45.3
80°	34.0	35.9	39.0	43.2	46.5	49.0	47.0	42.6	39.0	36.3	35.3
82.5°	24.7	26.0	28.0	31.1	33.3	34.7	33.8	30.6	29.1	26.7	25.8
85°	12.1	13.0	14.3	15.2	17.2	17.4	17.5	16.2	14.8	14.3	13.5
87.5°	4.6	5.1	5.7	6.4	7.3	7.6	7.6	7.7	7.3	7.3	6.8
90°	2.5	3.7	4.8	6.0	6.9	7.7	8.6	9.4	10.2	10.8	11.5
92.5°	6.0	6.0	6.0	6.1	6.5	7.4	8.2	9.0	9.9	10.5	11.1
95°	22.1	18.6	15.0	11.5	9.8	9.9	10.0	10.1	10.2	10.8	11.5
97.5°	56.5	58.7	60.9	63.1	58.4	46.9	35.4	23.8	12.3	12.3	12.4
100°	78.1	80.0	81.9	83.7	77.5	63.3	49.0	34.7	20.5	18.7	17.0
102.5°	102.2	103.5	104.9	106.3	106.1	104.2	102.3	100.4	98.6	79.7	60.7
105°	140.6	141.2	141.9	142.4	143.0	143.6	144.1	144.6	145.1	146.0	147.0
107.5°	176.7	177.0	177.2	177.6	178.1	178.8	179.5	180.2	180.9	181.4	181.8
110°	201.2	201.5	201.9	202.1	202.6	203.3	203.8	204.5	205.1	205.3	205.5



TEST NUMBER: P332499-930

CATALOG NUMBER: SA4XXDIP-C350D590U930-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	225.3	225.8	226.4	227.0	227.4	227.6	228.0	228.3	228.5	228.5	228.4
115°	261.7	262.0	262.3	262.6	262.7	262.6	262.5	262.4	262.3	262.5	262.7
117.5°	294.8	295.2	295.6	296.0	296.4	296.6	296.9	297.0	297.3	297.3	297.2
120°	317.2	317.6	318.0	318.4	318.5	318.5	318.3	318.2	318.1	318.3	318.5
122.5°	337.8	338.0	338.3	338.5	338.8	338.9	339.0	339.2	339.3	339.4	339.6
125°	367.8	368.3	368.7	369.1	369.2	368.9	368.8	368.5	368.4	368.7	368.9
127.5°	395.7	395.9	396.0	396.1	396.4	396.9	397.3	397.8	398.3	398.2	398.2
130°	414.0	414.1	414.3	414.3	414.5	414.8	415.2	415.5	415.8	415.9	416.0
132.5°	430.8	431.0	431.2	431.4	431.7	432.1	432.4	432.8	433.3	433.3	433.5
135°	455.7	455.6	455.4	455.3	455.5	455.9	456.3	456.7	457.1	457.4	457.5
137.5°	478.0	478.1	478.1	478.2	478.4	478.8	479.3	479.8	480.2	480.5	480.7
140°	492.7	492.9	493.1	493.3	493.5	493.7	494.0	494.2	494.4	494.6	495.0
142.5°	505.9	506.3	506.6	507.0	507.3	507.4	507.5	507.6	507.8	508.0	508.2
145°	525.9	526.1	526.4	526.8	526.9	526.9	526.9	526.9	526.9	527.0	527.1
147.5°	542.0	542.6	543.2	543.7	544.0	543.9	543.8	543.6	543.6	543.6	543.7
150°	553.3	553.8	554.2	554.6	554.8	554.6	554.6	554.5	554.3	554.3	554.3
152.5°	563.0	563.3	563.6	563.9	564.0	563.9	563.7	563.5	563.3	563.5	563.6
155°	576.3	576.4	576.5	576.7	576.5	576.3	575.9	575.6	575.3	575.7	576.1
157.5°	587.6	587.5	587.5	587.4	587.2	586.9	586.5	586.1	585.8	586.4	586.9
160°	594.0	593.7	593.5	593.1	592.9	592.8	592.7	592.6	592.5	593.1	593.7
162.5°	599.9	599.5	599.2	598.8	598.5	598.3	598.3	598.2	598.1	598.7	599.3
165°	607.3	606.8	606.3	605.8	605.5	605.5	605.5	605.5	605.5	606.3	607.2
167.5°	613.3	612.7	612.2	611.6	611.3	611.3	611.2	611.1	611.1	612.0	612.9
170°	616.5	615.9	615.3	614.7	614.4	614.5	614.6	614.7	614.8	615.6	616.4
172.5°	618.7	618.2	617.5	616.9	616.6	616.8	616.9	616.9	617.0	617.9	618.7
175°	621.2	620.5	620.0	619.3	619.1	619.1	619.3	619.4	619.5	620.4	621.3
177.5°	622.3	621.7	621.2	620.6	620.4	620.5	620.7	620.9	621.0	621.7	622.4
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8	621.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	465.8	465.8	465.8	465.8	465.8	465.8	465.8
2.5°	491.0	491.3	492.7	493.7	494.1	495.6	495.7
5°	534.1	537.4	543.7	544.3	545.3	550.3	546.4
7.5°	584.7	593.0	598.5	603.5	605.2	607.4	607.0
10°	617.1	629.4	635.6	645.5	645.8	648.3	646.8
12.5°	649.6	664.0	675.2	677.1	685.3	686.6	688.8
15°	695.8	711.0	726.7	732.3	743.6	746.3	750.6
17.5°	739.2	754.7	765.7	780.2	784.9	791.1	786.8
20°	763.0	779.9	793.9	805.2	810.0	813.5	813.1
22.5°	777.3	794.4	805.7	814.3	818.8	820.3	820.2
25°	786.3	796.1	799.6	802.9	797.9	796.1	796.9
27.5°	761.2	758.7	749.7	737.8	725.5	715.7	710.3
30°	726.8	711.8	698.1	674.2	661.9	654.5	647.9
32.5°	678.1	654.2	627.9	605.9	591.9	581.1	579.4
35°	594.5	558.6	526.4	499.5	485.7	473.9	471.2
37.5°	505.4	468.1	439.1	415.5	400.6	392.2	384.5
40°	446.3	414.3	385.7	365.7	354.2	348.3	343.5
42.5°	400.8	371.5	343.1	327.8	317.6	313.9	311.0
45°	337.9	310.6	291.0	279.4	273.5	267.3	264.3
47.5°	287.5	265.4	252.4	242.6	236.1	232.4	230.6
50°	258.9	240.8	229.3	221.7	215.9	213.0	211.5
52.5°	233.7	218.7	209.0	203.0	199.1	197.0	196.3
55°	201.2	189.9	183.7	178.5	175.6	173.7	172.9
57.5°	175.0	166.2	161.2	156.9	155.7	154.2	153.6
60°	157.7	150.9	146.7	143.7	142.8	140.9	141.2
62.5°	142.4	136.8	133.2	131.6	130.3	128.7	129.2
65°	120.4	116.3	114.4	112.9	111.4	110.4	111.1
67.5°	101.0	98.2	95.6	94.7	94.0	93.8	93.0
70°	88.4	86.1	83.7	83.2	83.2	82.4	82.2
72.5°	76.1	74.5	73.0	72.5	71.9	72.2	71.4
75°	58.9	57.5	56.9	56.3	56.2	56.2	55.6
77.5°	43.5	42.5	41.6	41.6	40.8	40.6	40.5
80°	33.0	32.6	31.9	31.9	31.5	31.6	31.2
82.5°	24.8	24.3	24.1	23.8	23.2	23.3	22.9
85°	13.3	12.7	12.6	12.0	11.6	12.0	11.6
87.5°	7.0	7.0	6.9	6.7	6.6	6.6	6.2
90°	12.1	12.7	13.1	13.4	13.5	13.8	13.9
92.5°	11.7	12.3	12.6	12.7	12.7	12.8	12.8
95°	12.1	12.7	13.0	13.2	13.3	13.4	13.5
97.5°	12.5	12.6	12.6	12.7	12.8	12.9	13.0
100°	15.2	13.5	12.6	12.7	12.8	12.9	13.0
102.5°	41.7	22.7	13.3	13.4	13.4	13.4	13.4
105°	147.9	148.8	147.4	143.7	140.0	136.2	132.6
107.5°	182.3	182.7	183.1	183.5	183.9	184.3	184.7
110°	205.7	205.9	206.2	206.5	206.8	207.1	207.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	228.4	228.4	228.5	228.9	229.3	229.8	230.1
115°	262.9	263.1	263.3	263.3	263.3	263.3	263.3
117.5°	297.2	297.1	297.1	297.0	297.0	296.9	296.9
120°	318.7	318.9	318.9	318.7	318.5	318.3	318.1
122.5°	339.7	339.8	339.7	339.6	339.3	339.2	338.9
125°	369.2	369.6	369.8	369.9	370.0	370.1	370.2
127.5°	398.1	398.0	397.9	397.9	397.8	397.7	397.6
130°	416.0	416.2	416.2	416.2	416.2	416.2	416.2
132.5°	433.6	433.7	433.7	433.6	433.5	433.4	433.3
135°	457.8	458.0	458.2	458.4	458.6	458.9	459.0
137.5°	480.9	481.1	481.2	481.2	481.1	481.0	480.9
140°	495.3	495.6	495.8	495.9	496.0	496.1	496.2
142.5°	508.4	508.7	508.8	508.8	508.8	508.8	508.9
145°	527.3	527.3	527.5	527.7	527.9	528.2	528.3
147.5°	543.8	543.9	544.0	544.1	544.2	544.3	544.4
150°	554.3	554.3	554.4	554.5	554.6	554.7	554.8
152.5°	563.8	563.9	564.0	563.9	563.9	563.8	563.8
155°	576.5	576.9	577.0	576.7	576.3	576.1	575.8
157.5°	587.4	587.9	587.9	587.4	586.9	586.4	585.8
160°	594.4	595.0	595.0	594.4	593.7	593.1	592.5
162.5°	599.9	600.5	600.5	599.8	599.1	598.4	597.7
165°	608.0	608.9	608.8	607.8	606.9	606.0	605.0
167.5°	613.8	614.7	614.7	613.7	612.6	611.6	610.6
170°	617.3	618.2	618.0	617.0	616.0	614.9	613.9
172.5°	619.5	620.4	620.2	619.1	618.0	616.9	615.7
175°	622.2	623.2	623.1	621.8	620.5	619.3	618.1
177.5°	623.1	623.7	623.5	622.6	621.6	620.5	619.5
180°	621.8	621.8	621.8	621.8	621.8	621.8	621.8

(END OF REPORT)