

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: P332499-935

Luminaire Tested: **SA4XXDIP-C350D590U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P332499-935
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-C350D590U935-4F0-1E-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

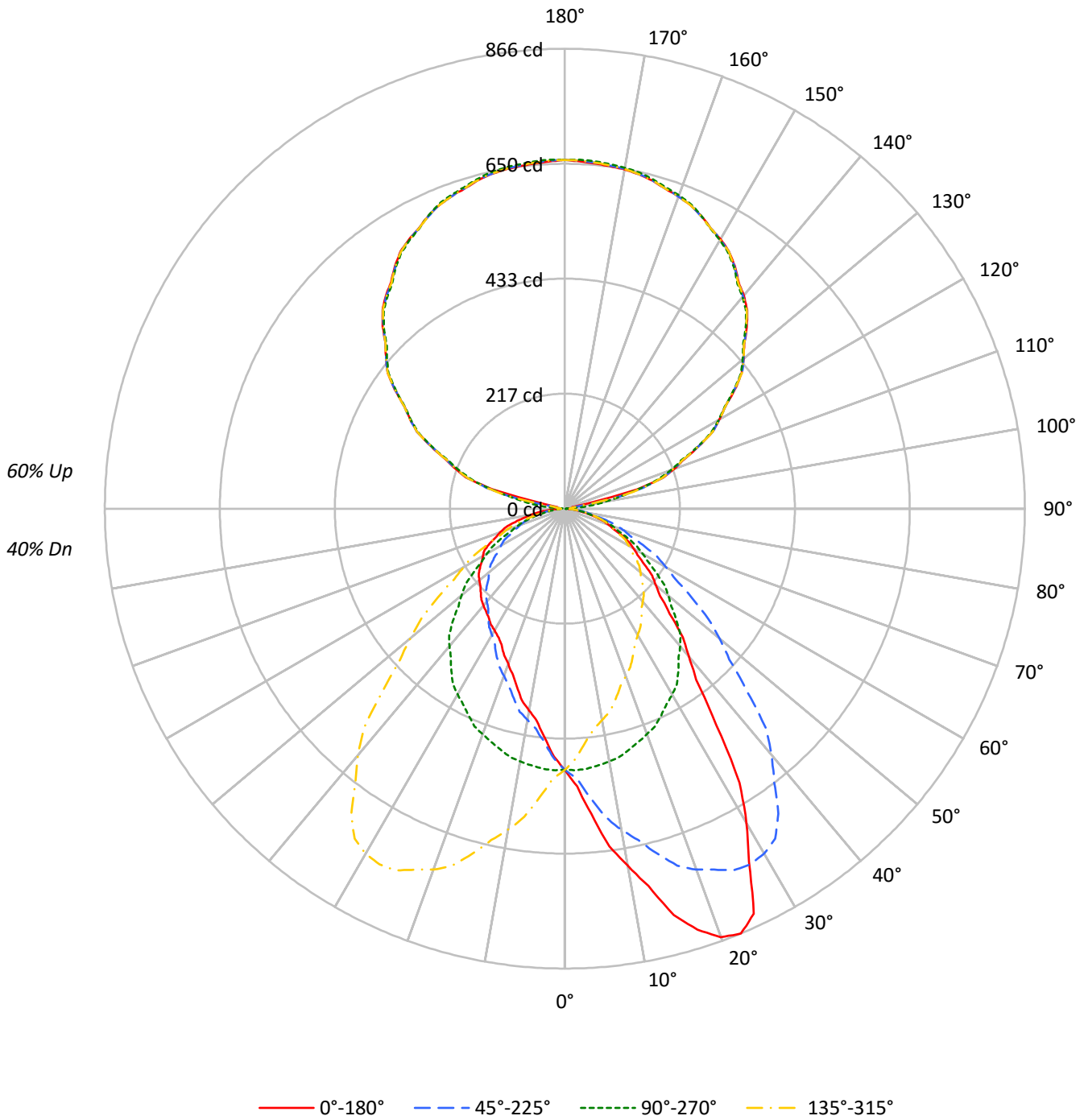
Lumens per Lamp: N/A
Luminaire Lumens: 3390.3 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.23 / 1.41
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3971	3971	3971	3971
5°	4676	3981	3514	3981
10°	5599	3963	3163	3963
15°	6624	3924	2906	3924
20°	7377	3882	2674	3882
25°	7496	3822	2515	3822
30°	6378	3765	2466	3765
35°	4904	3671	2466	3671
40°	3822	3561	2512	3561
45°	3186	3394	2555	3394
50°	2804	3191	2641	3191
55°	2570	2949	2747	2949
60°	2407	2730	2876	2730
65°	2243	2487	2982	2487
70°	2049	2245	3050	2245
75°	1831	1978	3013	1978
80°	1534	1623	2920	1623
85°	1130	1176	2788	1176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.9	1.4
10°-20°	147.7	4.4
20°-30°	234.2	6.9
30°-40°	260.7	7.7
40°-50°	237.3	7.0
50°-60°	193.9	5.7
60°-70°	138.4	4.1
70°-80°	76.2	2.2
80°-90°	22.7	0.7
90°-100°	22.5	0.7
100°-110°	143.2	4.2
110°-120°	273.9	8.1
120°-130°	347.7	10.3
130°-140°	372.1	11.0
140°-150°	347.9	10.3
150°-160°	280.6	8.3
160°-170°	181.0	5.3
170°-180°	62.4	1.8
0°-30°	429.9	12.7
0°-40°	690.5	20.4
0°-60°	1121.7	33.1
0°-90°	1359.1	40.1
90°-120°	439.6	13.0
90°-150°	1507.3	44.5
90°-180°	2031.0	59.9
0°-180°	3390.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	492	492	492	492	492	
5°	577	491	434	491	577	59
15°	793	470	348	470	793	224
25°	842	429	282	429	842	371
35°	498	372	250	372	498	316
45°	279	297	224	297	279	220
55°	183	210	195	210	183	165
65°	117	130	156	130	117	116
75°	59	63	97	63	59	62
85°	12	13	30	13	12	15
90°	15	2	15	2	15	7
95°	14	27	14	27	14	11
105°	140	148	140	148	140	122
115°	278	276	278	276	278	275
125°	391	388	391	388	391	348
135°	485	481	485	481	485	373
145°	558	555	558	555	558	349
155°	608	609	608	609	608	280
165°	639	642	639	642	639	180
175°	653	657	653	657	653	62
180°	657	657	657	657	657	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	523.5	523.4	521.8	521.4	520.3	518.8	518.5	515.8	510.7	508.2	507.6
5°	577.0	581.2	575.8	574.8	574.2	567.5	564.0	560.0	550.6	545.1	540.8
7.5°	641.0	641.4	639.1	637.3	632.1	626.2	617.4	608.0	596.8	585.3	576.5
10°	683.0	684.7	682.0	681.7	671.2	664.7	651.7	640.7	628.0	614.0	601.2
12.5°	727.4	725.1	723.8	715.1	713.1	701.2	686.0	674.8	655.2	639.0	622.0
15°	792.6	788.2	785.3	773.4	767.4	750.9	734.8	722.4	696.9	672.6	654.3
17.5°	831.0	835.4	828.9	823.9	808.7	797.0	780.6	754.5	734.6	704.5	681.3
20°	858.7	859.1	855.4	850.3	838.4	823.6	805.7	777.2	753.4	723.4	691.6
22.5°	866.2	866.3	864.7	860.0	850.8	839.0	820.9	797.0	768.2	735.6	703.8
25°	841.5	840.8	842.6	847.9	844.5	840.8	830.3	812.6	785.7	751.3	717.0
27.5°	750.1	755.8	766.1	779.1	791.7	801.2	803.9	800.3	783.7	755.4	719.5
30°	684.2	691.2	699.0	712.0	737.3	751.7	767.6	779.6	772.9	750.3	716.9
32.5°	611.9	613.6	625.1	639.9	663.1	690.9	716.1	740.5	748.6	736.8	708.9
35°	497.6	500.5	512.9	527.5	555.9	590.0	627.8	661.7	689.6	700.8	686.5
37.5°	406.0	414.2	423.0	438.8	463.7	494.4	533.7	577.6	619.1	647.0	651.8
40°	362.7	367.8	374.1	386.2	407.3	437.5	471.3	521.4	565.7	605.6	618.6
42.5°	328.5	331.5	335.4	346.2	362.3	392.4	423.3	467.4	511.7	559.5	581.3
45°	279.1	282.2	288.8	295.1	307.3	328.0	356.8	393.0	437.7	483.7	524.1
47.5°	243.6	245.5	249.3	256.1	266.6	280.3	303.6	333.9	375.2	420.0	463.0
50°	223.3	225.0	228.0	234.1	242.1	254.3	273.5	301.8	334.2	379.2	421.4
52.5°	207.3	208.0	210.3	214.4	220.8	231.0	246.8	270.2	300.3	340.4	382.5
55°	182.6	183.4	185.5	188.5	194.0	200.5	212.5	230.1	256.3	291.2	327.7
57.5°	162.2	162.8	164.5	165.7	170.2	175.5	184.8	197.3	217.1	246.8	279.3
60°	149.1	148.8	150.8	151.8	154.9	159.4	166.5	178.5	195.8	219.6	249.6
62.5°	136.5	135.9	137.6	139.0	140.7	144.5	150.3	159.7	173.8	195.4	221.3
65°	117.4	116.6	117.6	119.2	120.8	122.9	127.2	135.5	146.7	162.2	181.9
67.5°	98.2	99.1	99.3	100.0	101.0	103.8	106.7	112.6	120.5	132.9	149.6
70°	86.8	87.0	87.8	87.8	88.4	90.9	93.3	96.8	104.5	116.0	129.6
72.5°	75.4	76.3	75.9	76.5	77.1	78.7	80.4	83.8	90.3	98.8	110.4
75°	58.7	59.3	59.3	59.5	60.1	60.7	62.2	64.6	69.3	75.6	83.5
77.5°	42.8	42.9	43.1	43.9	43.9	44.9	45.9	47.9	50.2	54.5	59.4
80°	33.0	33.4	33.2	33.7	33.7	34.4	34.9	37.3	38.3	41.2	45.0
82.5°	24.2	24.6	24.5	25.1	25.5	25.7	26.2	27.2	28.2	30.7	32.3
85°	12.2	12.7	12.2	12.7	13.3	13.4	14.0	14.3	15.1	15.7	17.1
87.5°	6.5	7.0	7.0	7.1	7.3	7.4	7.4	7.1	7.7	7.7	8.2
90°	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1	11.5	10.8	9.9
92.5°	13.5	13.5	13.4	13.4	13.3	13.0	12.4	11.7	11.1	10.4	9.6
95°	14.2	14.1	14.0	13.9	13.8	13.4	12.7	12.1	11.5	10.8	10.7
97.5°	13.8	13.6	13.5	13.4	13.3	13.3	13.2	13.1	13.0	13.0	25.1
100°	13.8	13.6	13.5	13.4	13.3	14.2	16.0	17.9	19.7	21.6	36.7
102.5°	14.1	14.1	14.1	14.1	14.0	24.0	44.1	64.1	84.1	104.1	106.1
105°	140.0	143.9	147.8	151.8	155.7	157.1	156.2	155.2	154.2	153.3	152.7
107.5°	195.1	194.7	194.2	193.8	193.4	193.0	192.5	192.0	191.6	191.1	190.3
110°	219.0	218.7	218.3	218.1	217.7	217.5	217.2	217.1	216.8	216.6	215.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	243.0	242.6	242.2	241.8	241.3	241.2	241.3	241.3	241.3	241.3	241.1
115°	278.0	278.0	278.0	278.0	278.0	277.8	277.7	277.4	277.2	277.0	277.1
117.5°	313.6	313.6	313.7	313.7	313.7	313.7	313.8	313.8	313.9	313.9	313.7
120°	336.0	336.1	336.4	336.6	336.8	336.8	336.6	336.4	336.1	336.0	336.0
122.5°	357.9	358.2	358.3	358.6	358.8	358.9	358.7	358.6	358.4	358.3	358.2
125°	391.0	390.8	390.7	390.6	390.5	390.3	389.9	389.6	389.3	389.0	389.2
127.5°	419.9	420.0	420.1	420.2	420.3	420.3	420.4	420.5	420.5	420.6	420.1
130°	439.5	439.5	439.5	439.5	439.5	439.5	439.4	439.3	439.2	439.1	438.8
132.5°	457.6	457.7	457.8	457.9	458.0	458.0	457.9	457.8	457.6	457.5	457.1
135°	484.7	484.6	484.3	484.1	483.9	483.6	483.5	483.2	483.0	482.8	482.3
137.5°	507.9	508.0	508.1	508.2	508.2	508.1	507.9	507.6	507.4	507.1	506.7
140°	524.0	523.9	523.8	523.7	523.6	523.4	523.1	522.7	522.4	522.1	521.9
142.5°	537.4	537.4	537.4	537.4	537.4	537.2	536.9	536.7	536.5	536.2	536.1
145°	557.9	557.8	557.5	557.2	557.1	556.9	556.8	556.6	556.6	556.5	556.5
147.5°	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2	574.1	574.0	574.1
150°	585.9	585.8	585.7	585.6	585.5	585.4	585.4	585.4	585.4	585.4	585.6
152.5°	595.4	595.4	595.5	595.6	595.6	595.6	595.4	595.2	595.0	594.9	595.0
155°	608.0	608.4	608.6	609.0	609.3	609.2	608.8	608.4	608.0	607.5	607.9
157.5°	618.6	619.2	619.7	620.4	620.9	620.9	620.4	619.7	619.2	618.6	619.0
160°	625.7	626.4	627.0	627.7	628.4	628.4	627.7	627.0	626.4	625.7	625.8
162.5°	631.2	632.0	632.7	633.4	634.2	634.2	633.5	632.9	632.2	631.6	631.7
165°	638.9	640.0	640.9	641.9	642.9	643.0	642.0	641.2	640.3	639.5	639.5
167.5°	644.8	645.8	647.0	648.1	649.1	649.2	648.2	647.3	646.4	645.3	645.4
170°	648.3	649.4	650.5	651.6	652.6	652.8	651.9	651.0	650.1	649.3	649.2
172.5°	650.2	651.4	652.6	653.8	655.0	655.1	654.3	653.4	652.6	651.6	651.5
175°	652.7	654.0	655.3	656.7	658.0	658.1	657.1	656.2	655.1	654.2	654.1
177.5°	654.3	655.3	656.4	657.5	658.5	658.7	658.0	657.3	656.6	655.8	655.7
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	507.7	505.4	503.8	502.5	498.9	496.8	495.2	492.9	490.3	487.5	484.1
5°	536.5	529.6	524.5	516.8	509.5	503.3	497.0	491.3	484.4	476.8	471.3
7.5°	566.8	556.5	543.3	531.8	518.9	507.7	497.7	487.5	476.8	466.4	456.9
10°	586.1	572.8	558.1	540.8	524.5	510.1	496.6	483.5	470.9	458.3	447.5
12.5°	606.7	590.2	568.5	548.3	530.0	510.7	494.5	478.5	463.2	450.0	437.4
15°	634.6	610.7	585.7	558.5	534.5	511.9	489.7	469.5	452.4	434.8	422.6
17.5°	651.6	622.1	593.5	565.2	536.1	507.5	483.5	460.3	438.9	421.5	406.0
20°	662.9	633.5	597.9	569.6	534.9	505.6	477.9	451.9	429.6	411.0	395.1
22.5°	672.6	638.8	603.0	565.8	531.3	500.2	469.8	443.8	420.9	401.4	386.2
25°	678.0	639.0	600.3	563.2	524.1	487.2	459.7	429.1	404.7	384.1	367.8
27.5°	678.6	636.9	593.1	551.9	511.5	477.2	442.5	415.1	389.8	368.0	352.3
30°	676.7	633.4	586.3	541.7	501.1	463.8	433.6	403.9	378.0	356.4	340.1
32.5°	671.0	625.9	577.5	530.2	488.2	451.7	420.6	392.3	367.0	345.8	328.6
35°	654.5	609.8	558.4	509.2	466.2	429.4	401.2	372.5	347.2	327.1	310.6
37.5°	628.7	588.4	536.0	485.2	442.9	405.9	378.0	352.1	329.2	308.8	291.9
40°	606.2	570.8	518.1	468.6	423.0	387.8	361.7	337.9	315.2	295.8	279.7
42.5°	580.3	549.4	500.9	448.5	404.4	369.0	343.6	322.2	300.9	283.0	266.9
45°	534.1	513.7	468.0	419.6	373.7	340.3	316.1	297.3	279.4	261.8	248.4
47.5°	481.0	470.8	432.4	386.3	342.9	309.9	288.9	271.6	255.8	241.0	229.1
50°	445.2	440.3	407.2	362.7	321.2	290.2	269.0	254.1	240.6	227.6	216.4
52.5°	410.0	409.8	379.9	339.2	300.7	271.0	249.9	236.0	224.4	213.8	203.7
55°	356.2	361.9	338.5	302.2	267.8	240.8	221.9	209.5	201.3	192.6	185.0
57.5°	306.8	316.2	296.9	264.9	236.2	211.5	194.9	185.6	176.9	171.6	166.1
60°	274.5	283.4	268.4	241.5	214.4	193.2	177.5	169.1	161.6	157.9	154.0
62.5°	245.8	253.7	242.6	217.7	194.2	173.7	160.5	152.5	147.4	143.4	140.9
65°	204.8	211.5	201.9	183.8	163.6	147.3	136.6	130.2	125.4	123.7	120.8
67.5°	165.6	171.7	166.5	151.1	134.9	122.5	114.1	108.1	105.1	103.8	101.7
70°	142.2	148.4	142.8	129.4	116.9	106.6	98.6	95.1	92.1	91.5	88.7
72.5°	122.5	126.7	121.1	110.6	100.0	91.3	85.1	81.5	79.9	78.8	77.2
75°	91.9	95.6	91.9	83.8	76.2	70.1	64.8	63.4	61.6	61.0	59.9
77.5°	65.0	68.2	65.4	60.4	54.7	49.9	47.1	45.3	44.9	43.8	44.3
80°	49.7	51.7	49.1	45.6	41.2	37.9	35.9	34.9	33.7	33.2	34.0
82.5°	35.7	36.6	35.2	32.9	29.6	27.5	26.1	24.9	24.6	24.7	24.7
85°	18.5	18.3	18.2	16.1	15.1	13.7	12.8	12.7	12.4	12.8	13.3
87.5°	8.0	8.0	7.7	6.8	6.0	5.3	4.9	4.6	4.9	5.3	5.8
90°	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5	2.7	3.9	5.1
92.5°	8.7	7.8	6.9	6.5	6.4	6.3	6.3	6.2	6.3	6.3	6.4
95°	10.6	10.5	10.3	12.1	15.8	19.6	23.3	27.0	23.3	19.6	15.8
97.5°	37.4	49.5	61.6	66.6	64.3	62.0	59.7	57.3	59.7	62.0	64.3
100°	51.7	66.8	81.9	88.4	86.4	84.5	82.5	80.5	82.5	84.5	86.4
102.5°	108.1	110.0	112.0	112.3	110.8	109.3	107.9	106.5	107.9	109.3	110.8
105°	152.1	151.6	151.0	150.4	149.8	149.1	148.5	147.8	148.5	149.1	149.8
107.5°	189.6	188.8	188.0	187.5	187.2	186.9	186.6	186.2	186.6	186.9	187.2
110°	215.2	214.6	214.0	213.4	213.2	212.8	212.5	212.2	212.5	212.8	213.2



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	240.7	240.4	240.1	239.7	239.1	238.5	237.9	237.3	237.9	238.5	239.1
115°	277.2	277.3	277.4	277.3	277.0	276.6	276.4	276.0	276.4	276.6	277.0
117.5°	313.5	313.2	313.0	312.6	312.2	311.8	311.3	310.9	311.3	311.8	312.2
120°	336.1	336.3	336.4	336.2	335.8	335.4	334.9	334.5	334.9	335.4	335.8
122.5°	358.0	357.9	357.7	357.5	357.2	357.0	356.7	356.5	356.7	357.0	357.2
125°	389.4	389.6	389.9	389.8	389.3	388.9	388.4	388.0	388.4	388.9	389.3
127.5°	419.6	419.1	418.6	418.3	418.2	418.1	417.9	417.8	417.9	418.1	418.2
130°	438.4	438.1	437.7	437.6	437.5	437.3	437.2	437.1	437.2	437.3	437.5
132.5°	456.7	456.3	455.9	455.6	455.4	455.2	455.0	454.8	455.0	455.2	455.4
135°	481.9	481.5	481.0	480.9	481.0	481.1	481.2	481.3	481.2	481.1	481.0
137.5°	506.2	505.7	505.2	505.0	504.9	504.9	504.8	504.8	504.8	504.9	504.9
140°	521.7	521.4	521.2	521.0	520.7	520.6	520.3	520.1	520.3	520.6	520.7
142.5°	536.0	535.8	535.7	535.5	535.0	534.7	534.3	533.9	534.3	534.7	535.0
145°	556.5	556.5	556.5	556.3	555.9	555.6	555.3	555.0	555.3	555.6	555.9
147.5°	574.3	574.4	574.5	574.2	573.6	573.0	572.4	571.8	572.4	573.0	573.6
150°	585.7	585.7	585.9	585.7	585.3	584.9	584.4	583.9	584.4	584.9	585.3
152.5°	595.3	595.5	595.6	595.6	595.2	594.9	594.5	594.2	594.5	594.9	595.2
155°	608.2	608.6	608.8	609.0	608.8	608.7	608.6	608.6	608.6	608.7	608.8
157.5°	619.4	619.7	620.1	620.4	620.4	620.4	620.5	620.6	620.5	620.4	620.4
160°	625.9	626.0	626.1	626.4	626.7	627.0	627.3	627.7	627.3	627.0	626.7
162.5°	631.8	631.9	632.1	632.3	632.7	633.1	633.5	634.0	633.5	633.1	632.7
165°	639.5	639.5	639.5	639.7	640.2	640.8	641.4	641.9	641.4	640.8	640.2
167.5°	645.5	645.6	645.6	645.9	646.5	647.0	647.6	648.2	647.6	647.0	646.5
170°	649.0	648.9	648.8	649.1	649.8	650.4	651.1	651.8	651.1	650.4	649.8
172.5°	651.4	651.3	651.2	651.5	652.1	652.8	653.4	654.1	653.4	652.8	652.1
175°	654.0	653.8	653.8	654.0	654.7	655.3	656.0	656.7	656.0	655.3	654.7
177.5°	655.5	655.3	655.1	655.4	656.0	656.6	657.2	657.8	657.2	656.6	656.0
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	482.4	481.0	478.9	476.0	473.5	470.9	470.2	469.2	471.2	469.6	469.1
5°	466.7	462.4	456.8	450.6	446.9	441.6	440.6	438.5	436.4	436.3	434.2
7.5°	449.9	443.6	436.4	430.0	424.0	418.2	414.4	413.6	410.6	408.8	406.8
10°	439.1	431.4	423.0	416.9	410.0	403.9	399.6	397.2	395.1	392.9	390.8
12.5°	426.5	418.2	411.3	404.7	396.5	391.8	384.8	380.6	380.1	380.1	374.9
15°	411.6	403.5	392.9	383.5	379.0	370.1	366.2	361.3	358.3	355.2	352.8
17.5°	394.7	384.5	376.3	365.5	357.0	349.8	344.7	341.8	337.2	332.9	329.8
20°	384.1	373.3	364.5	353.1	343.8	335.0	330.7	326.7	323.2	319.5	316.1
22.5°	373.3	362.1	351.4	340.3	331.6	322.3	318.1	312.6	309.4	307.3	303.8
25°	356.4	344.1	331.9	321.3	312.4	304.2	298.8	294.5	290.8	289.1	286.9
27.5°	337.9	325.8	314.0	302.0	291.8	285.9	281.5	278.3	276.1	274.0	272.9
30°	326.2	313.6	301.0	289.7	280.4	274.5	270.4	268.2	266.6	265.5	264.5
32.5°	314.4	301.9	288.6	278.4	269.9	264.7	261.6	259.3	258.6	258.2	257.8
35°	295.2	282.7	270.4	261.2	253.3	251.2	248.6	247.4	246.9	248.4	249.0
37.5°	276.8	265.1	253.8	245.0	239.7	236.8	235.8	235.9	237.4	238.6	240.0
40°	264.9	253.5	242.9	235.1	230.2	228.4	228.0	229.0	230.7	232.1	233.8
42.5°	253.3	242.1	232.5	225.2	221.8	220.1	220.3	221.4	223.7	225.4	227.8
45°	235.4	226.0	216.6	210.7	207.8	208.3	208.3	210.1	212.3	215.0	217.7
47.5°	218.4	209.0	201.3	196.3	194.8	194.5	195.6	198.0	201.2	204.5	208.2
50°	207.1	198.0	191.3	186.8	185.2	185.8	187.4	189.7	193.6	197.7	201.6
52.5°	195.4	187.3	181.1	176.9	175.7	176.8	178.5	182.0	185.5	189.9	194.5
55°	177.5	170.6	165.7	162.6	162.2	162.8	164.6	168.5	173.4	178.9	183.4
57.5°	159.6	153.8	149.3	147.2	147.4	148.0	151.0	155.6	160.8	166.7	172.5
60°	147.5	142.2	138.5	136.9	137.2	138.4	142.1	146.3	152.8	158.5	164.6
62.5°	136.1	131.5	127.9	126.5	126.2	128.9	132.4	136.8	143.4	149.7	156.4
65°	117.8	114.1	111.2	110.5	111.1	113.1	117.6	123.5	129.0	135.7	142.7
67.5°	99.9	96.9	94.9	95.2	96.0	99.0	102.7	107.8	114.1	121.1	127.9
70°	88.4	85.6	83.9	84.1	85.4	89.0	92.3	97.4	104.1	111.2	116.9
72.5°	76.7	74.8	73.4	74.2	75.4	77.9	82.1	87.1	93.1	99.7	105.7
75°	58.9	58.9	58.1	58.7	60.5	62.9	66.0	71.3	77.2	82.6	87.4
77.5°	43.7	43.2	43.7	44.5	45.5	48.5	52.0	55.8	60.2	65.5	69.6
80°	33.4	33.7	34.6	35.9	36.2	38.5	42.2	45.6	49.1	53.6	57.4
82.5°	25.1	25.3	25.8	27.4	27.8	30.2	32.5	36.0	39.2	42.2	45.4
85°	13.7	13.7	14.6	15.3	16.3	17.9	19.4	21.4	24.3	26.3	29.4
87.5°	6.5	6.7	7.5	8.0	8.7	9.6	10.2	12.1	12.8	13.8	15.3
90°	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1	12.7	13.4	13.9
92.5°	6.5	6.9	7.8	8.7	9.6	10.4	11.1	11.7	12.4	13.0	13.3
95°	12.1	10.3	10.5	10.6	10.7	10.8	11.5	12.1	12.7	13.4	13.8
97.5°	66.6	61.6	49.5	37.4	25.1	13.0	13.0	13.1	13.2	13.3	13.3
100°	88.4	81.9	66.8	51.7	36.7	21.6	19.7	17.9	16.0	14.2	13.3
102.5°	112.3	112.0	110.0	108.1	106.1	104.1	84.1	64.1	44.1	24.0	14.0
105°	150.4	151.0	151.6	152.1	152.7	153.3	154.2	155.2	156.2	157.1	155.7
107.5°	187.5	188.0	188.8	189.6	190.3	191.1	191.6	192.0	192.5	193.0	193.4
110°	213.4	214.0	214.6	215.2	215.9	216.6	216.8	217.1	217.2	217.5	217.7



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	239.7	240.1	240.4	240.7	241.1	241.3	241.3	241.3	241.3	241.2	241.3
115°	277.3	277.4	277.3	277.2	277.1	277.0	277.2	277.4	277.7	277.8	278.0
117.5°	312.6	313.0	313.2	313.5	313.7	313.9	313.9	313.8	313.8	313.7	313.7
120°	336.2	336.4	336.3	336.1	336.0	336.0	336.1	336.4	336.6	336.8	336.8
122.5°	357.5	357.7	357.9	358.0	358.2	358.3	358.4	358.6	358.7	358.9	358.8
125°	389.8	389.9	389.6	389.4	389.2	389.0	389.3	389.6	389.9	390.3	390.5
127.5°	418.3	418.6	419.1	419.6	420.1	420.6	420.5	420.5	420.4	420.3	420.3
130°	437.6	437.7	438.1	438.4	438.8	439.1	439.2	439.3	439.4	439.5	439.5
132.5°	455.6	455.9	456.3	456.7	457.1	457.5	457.6	457.8	457.9	458.0	458.0
135°	480.9	481.0	481.5	481.9	482.3	482.8	483.0	483.2	483.5	483.6	483.9
137.5°	505.0	505.2	505.7	506.2	506.7	507.1	507.4	507.6	507.9	508.1	508.2
140°	521.0	521.2	521.4	521.7	521.9	522.1	522.4	522.7	523.1	523.4	523.6
142.5°	535.5	535.7	535.8	536.0	536.1	536.2	536.5	536.7	536.9	537.2	537.4
145°	556.3	556.5	556.5	556.5	556.5	556.5	556.6	556.6	556.8	556.9	557.1
147.5°	574.2	574.5	574.4	574.3	574.1	574.0	574.1	574.2	574.3	574.4	574.5
150°	585.7	585.9	585.7	585.7	585.6	585.4	585.4	585.4	585.4	585.4	585.5
152.5°	595.6	595.6	595.5	595.3	595.0	594.9	595.0	595.2	595.4	595.6	595.6
155°	609.0	608.8	608.6	608.2	607.9	607.5	608.0	608.4	608.8	609.2	609.3
157.5°	620.4	620.1	619.7	619.4	619.0	618.6	619.2	619.7	620.4	620.9	620.9
160°	626.4	626.1	626.0	625.9	625.8	625.7	626.4	627.0	627.7	628.4	628.4
162.5°	632.3	632.1	631.9	631.8	631.7	631.6	632.2	632.9	633.5	634.2	634.2
165°	639.7	639.5	639.5	639.5	639.5	639.5	640.3	641.2	642.0	643.0	642.9
167.5°	645.9	645.6	645.6	645.5	645.4	645.3	646.4	647.3	648.2	649.2	649.1
170°	649.1	648.8	648.9	649.0	649.2	649.3	650.1	651.0	651.9	652.8	652.6
172.5°	651.5	651.2	651.3	651.4	651.5	651.6	652.6	653.4	654.3	655.1	655.0
175°	654.0	653.8	653.8	654.0	654.1	654.2	655.1	656.2	657.1	658.1	658.0
177.5°	655.4	655.1	655.3	655.5	655.7	655.8	656.6	657.3	658.0	658.7	658.5
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	468.7	468.5	467.3	467.1	467.3	468.5	468.7	469.1	469.6	471.2	469.2
5°	433.0	432.0	431.4	433.6	431.4	432.0	433.0	434.2	436.3	436.4	438.5
7.5°	406.0	405.3	403.5	402.9	403.5	405.3	406.0	406.8	408.8	410.6	413.6
10°	388.8	388.0	386.3	385.9	386.3	388.0	388.8	390.8	392.9	395.1	397.2
12.5°	372.1	370.6	370.2	370.7	370.2	370.6	372.1	374.9	380.1	380.1	380.6
15°	350.1	349.2	347.0	347.7	347.0	349.2	350.1	352.8	355.2	358.3	361.3
17.5°	328.3	327.4	324.6	327.0	324.6	327.4	328.3	329.8	332.9	337.2	341.8
20°	314.6	313.0	311.6	311.3	311.6	313.0	314.6	316.1	319.5	323.2	326.7
22.5°	301.6	300.1	300.0	298.7	300.0	300.1	301.6	303.8	307.3	309.4	312.6
25°	285.2	283.9	283.4	282.4	283.4	283.9	285.2	286.9	289.1	290.8	294.5
27.5°	272.8	272.1	271.3	271.6	271.3	272.1	272.8	272.9	274.0	276.1	278.3
30°	265.1	264.9	264.5	264.5	264.5	264.9	265.1	264.5	265.5	266.6	268.2
32.5°	258.7	258.7	259.0	259.0	259.0	258.7	258.7	257.8	258.2	258.6	259.3
35°	249.9	250.5	250.8	250.2	250.8	250.5	249.9	249.0	248.4	246.9	247.4
37.5°	241.8	242.4	243.0	243.7	243.0	242.4	241.8	240.0	238.6	237.4	235.9
40°	235.6	236.9	237.4	238.4	237.4	236.9	235.6	233.8	232.1	230.7	229.0
42.5°	229.7	231.3	232.3	232.6	232.3	231.3	229.7	227.8	225.4	223.7	221.4
45°	220.7	222.3	223.8	223.8	223.8	222.3	220.7	217.7	215.0	212.3	210.1
47.5°	211.4	213.7	215.2	215.5	215.2	213.7	211.4	208.2	204.5	201.2	198.0
50°	205.0	207.8	209.3	210.3	209.3	207.8	205.0	201.6	197.7	193.6	189.7
52.5°	198.8	201.6	203.5	204.1	203.5	201.6	198.8	194.5	189.9	185.5	182.0
55°	188.0	192.2	194.4	195.2	194.4	192.2	188.0	183.4	178.9	173.4	168.5
57.5°	178.0	181.8	184.3	184.9	184.3	181.8	178.0	172.5	166.7	160.8	155.6
60°	170.1	174.3	177.5	178.1	177.5	174.3	170.1	164.6	158.5	152.8	146.3
62.5°	162.1	166.4	169.4	170.9	169.4	166.4	162.1	156.4	149.7	143.4	136.8
65°	148.4	152.7	155.5	156.1	155.5	152.7	148.4	142.7	135.7	129.0	123.5
67.5°	133.3	137.6	139.4	140.6	139.4	137.6	133.3	127.9	121.1	114.1	107.8
70°	122.7	126.1	128.2	129.2	128.2	126.1	122.7	116.9	111.2	104.1	97.4
72.5°	110.6	114.3	116.6	116.8	116.6	114.3	110.6	105.7	99.7	93.1	87.1
75°	92.1	95.4	96.6	96.6	96.6	95.4	92.1	87.4	82.6	77.2	71.3
77.5°	72.9	74.6	76.1	76.5	76.1	74.6	72.9	69.6	65.5	60.2	55.8
80°	60.5	61.6	62.8	62.8	62.8	61.6	60.5	57.4	53.6	49.1	45.6
82.5°	47.8	48.6	49.9	49.7	49.9	48.6	47.8	45.4	42.2	39.2	36.0
85°	28.9	30.7	30.6	30.1	30.6	30.7	28.9	29.4	26.3	24.3	21.4
87.5°	15.8	16.1	16.6	17.0	16.6	16.1	15.8	15.3	13.8	12.8	12.1
90°	14.1	14.3	14.6	14.7	14.6	14.3	14.1	13.9	13.4	12.7	12.1
92.5°	13.4	13.4	13.5	13.5	13.5	13.4	13.4	13.3	13.0	12.4	11.7
95°	13.9	14.0	14.1	14.2	14.1	14.0	13.9	13.8	13.4	12.7	12.1
97.5°	13.4	13.5	13.6	13.8	13.6	13.5	13.4	13.3	13.3	13.2	13.1
100°	13.4	13.5	13.6	13.8	13.6	13.5	13.4	13.3	14.2	16.0	17.9
102.5°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.0	24.0	44.1	64.1
105°	151.8	147.8	143.9	140.0	143.9	147.8	151.8	155.7	157.1	156.2	155.2
107.5°	193.8	194.2	194.7	195.1	194.7	194.2	193.8	193.4	193.0	192.5	192.0
110°	218.1	218.3	218.7	219.0	218.7	218.3	218.1	217.7	217.5	217.2	217.1



TEST NUMBER: P332499-935
 CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	241.8	242.2	242.6	243.0	242.6	242.2	241.8	241.3	241.2	241.3	241.3
115°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	277.8	277.7	277.4
117.5°	313.7	313.7	313.6	313.6	313.6	313.7	313.7	313.7	313.7	313.8	313.8
120°	336.6	336.4	336.1	336.0	336.1	336.4	336.6	336.8	336.8	336.6	336.4
122.5°	358.6	358.3	358.2	357.9	358.2	358.3	358.6	358.8	358.9	358.7	358.6
125°	390.6	390.7	390.8	391.0	390.8	390.7	390.6	390.5	390.3	389.9	389.6
127.5°	420.2	420.1	420.0	419.9	420.0	420.1	420.2	420.3	420.3	420.4	420.5
130°	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.5	439.4	439.3
132.5°	457.9	457.8	457.7	457.6	457.7	457.8	457.9	458.0	458.0	457.9	457.8
135°	484.1	484.3	484.6	484.7	484.6	484.3	484.1	483.9	483.6	483.5	483.2
137.5°	508.2	508.1	508.0	507.9	508.0	508.1	508.2	508.2	508.1	507.9	507.6
140°	523.7	523.8	523.9	524.0	523.9	523.8	523.7	523.6	523.4	523.1	522.7
142.5°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.2	536.9	536.7
145°	557.2	557.5	557.8	557.9	557.8	557.5	557.2	557.1	556.9	556.8	556.6
147.5°	574.6	574.7	574.8	574.9	574.8	574.7	574.6	574.5	574.4	574.3	574.2
150°	585.6	585.7	585.8	585.9	585.8	585.7	585.6	585.5	585.4	585.4	585.4
152.5°	595.6	595.5	595.4	595.4	595.4	595.5	595.6	595.6	595.6	595.4	595.2
155°	609.0	608.6	608.4	608.0	608.4	608.6	609.0	609.3	609.2	608.8	608.4
157.5°	620.4	619.7	619.2	618.6	619.2	619.7	620.4	620.9	620.9	620.4	619.7
160°	627.7	627.0	626.4	625.7	626.4	627.0	627.7	628.4	628.4	627.7	627.0
162.5°	633.4	632.7	632.0	631.2	632.0	632.7	633.4	634.2	634.2	633.5	632.9
165°	641.9	640.9	640.0	638.9	640.0	640.9	641.9	642.9	643.0	642.0	641.2
167.5°	648.1	647.0	645.8	644.8	645.8	647.0	648.1	649.1	649.2	648.2	647.3
170°	651.6	650.5	649.4	648.3	649.4	650.5	651.6	652.6	652.8	651.9	651.0
172.5°	653.8	652.6	651.4	650.2	651.4	652.6	653.8	655.0	655.1	654.3	653.4
175°	656.7	655.3	654.0	652.7	654.0	655.3	656.7	658.0	658.1	657.1	656.2
177.5°	657.5	656.4	655.3	654.3	655.3	656.4	657.5	658.5	658.7	658.0	657.3
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	470.2	470.9	473.5	476.0	478.9	481.0	482.4	484.1	487.5	490.3	492.9
5°	440.6	441.6	446.9	450.6	456.8	462.4	466.7	471.3	476.8	484.4	491.3
7.5°	414.4	418.2	424.0	430.0	436.4	443.6	449.9	456.9	466.4	476.8	487.5
10°	399.6	403.9	410.0	416.9	423.0	431.4	439.1	447.5	458.3	470.9	483.5
12.5°	384.8	391.8	396.5	404.7	411.3	418.2	426.5	437.4	450.0	463.2	478.5
15°	366.2	370.1	379.0	383.5	392.9	403.5	411.6	422.6	434.8	452.4	469.5
17.5°	344.7	349.8	357.0	365.5	376.3	384.5	394.7	406.0	421.5	438.9	460.3
20°	330.7	335.0	343.8	353.1	364.5	373.3	384.1	395.1	411.0	429.6	451.9
22.5°	318.1	322.3	331.6	340.3	351.4	362.1	373.3	386.2	401.4	420.9	443.8
25°	298.8	304.2	312.4	321.3	331.9	344.1	356.4	367.8	384.1	404.7	429.1
27.5°	281.5	285.9	291.8	302.0	314.0	325.8	337.9	352.3	368.0	389.8	415.1
30°	270.4	274.5	280.4	289.7	301.0	313.6	326.2	340.1	356.4	378.0	403.9
32.5°	261.6	264.7	269.9	278.4	288.6	301.9	314.4	328.6	345.8	367.0	392.3
35°	248.6	251.2	253.3	261.2	270.4	282.7	295.2	310.6	327.1	347.2	372.5
37.5°	235.8	236.8	239.7	245.0	253.8	265.1	276.8	291.9	308.8	329.2	352.1
40°	228.0	228.4	230.2	235.1	242.9	253.5	264.9	279.7	295.8	315.2	337.9
42.5°	220.3	220.1	221.8	225.2	232.5	242.1	253.3	266.9	283.0	300.9	322.2
45°	208.3	208.3	207.8	210.7	216.6	226.0	235.4	248.4	261.8	279.4	297.3
47.5°	195.6	194.5	194.8	196.3	201.3	209.0	218.4	229.1	241.0	255.8	271.6
50°	187.4	185.8	185.2	186.8	191.3	198.0	207.1	216.4	227.6	240.6	254.1
52.5°	178.5	176.8	175.7	176.9	181.1	187.3	195.4	203.7	213.8	224.4	236.0
55°	164.6	162.8	162.2	162.6	165.7	170.6	177.5	185.0	192.6	201.3	209.5
57.5°	151.0	148.0	147.4	147.2	149.3	153.8	159.6	166.1	171.6	176.9	185.6
60°	142.1	138.4	137.2	136.9	138.5	142.2	147.5	154.0	157.9	161.6	169.1
62.5°	132.4	128.9	126.2	126.5	127.9	131.5	136.1	140.9	143.4	147.4	152.5
65°	117.6	113.1	111.1	110.5	111.2	114.1	117.8	120.8	123.7	125.4	130.2
67.5°	102.7	99.0	96.0	95.2	94.9	96.9	99.9	101.7	103.8	105.1	108.1
70°	92.3	89.0	85.4	84.1	83.9	85.6	88.4	88.7	91.5	92.1	95.1
72.5°	82.1	77.9	75.4	74.2	73.4	74.8	76.7	77.2	78.8	79.9	81.5
75°	66.0	62.9	60.5	58.7	58.1	58.9	58.9	59.9	61.0	61.6	63.4
77.5°	52.0	48.5	45.5	44.5	43.7	43.2	43.7	44.3	43.8	44.9	45.3
80°	42.2	38.5	36.2	35.9	34.6	33.7	33.4	34.0	33.2	33.7	34.9
82.5°	32.5	30.2	27.8	27.4	25.8	25.3	25.1	24.7	24.7	24.6	24.9
85°	19.4	17.9	16.3	15.3	14.6	13.7	13.7	13.3	12.8	12.4	12.7
87.5°	10.2	9.6	8.7	8.0	7.5	6.7	6.5	5.8	5.3	4.9	4.6
90°	11.5	10.8	9.9	9.0	8.2	7.3	6.3	5.1	3.9	2.7	1.5
92.5°	11.1	10.4	9.6	8.7	7.8	6.9	6.5	6.4	6.3	6.3	6.2
95°	11.5	10.8	10.7	10.6	10.5	10.3	12.1	15.8	19.6	23.3	27.0
97.5°	13.0	13.0	25.1	37.4	49.5	61.6	66.6	64.3	62.0	59.7	57.3
100°	19.7	21.6	36.7	51.7	66.8	81.9	88.4	86.4	84.5	82.5	80.5
102.5°	84.1	104.1	106.1	108.1	110.0	112.0	112.3	110.8	109.3	107.9	106.5
105°	154.2	153.3	152.7	152.1	151.6	151.0	150.4	149.8	149.1	148.5	147.8
107.5°	191.6	191.1	190.3	189.6	188.8	188.0	187.5	187.2	186.9	186.6	186.2
110°	216.8	216.6	215.9	215.2	214.6	214.0	213.4	213.2	212.8	212.5	212.2



TEST NUMBER: P332499-935

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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	241.3	241.3	241.1	240.7	240.4	240.1	239.7	239.1	238.5	237.9	237.3
115°	277.2	277.0	277.1	277.2	277.3	277.4	277.3	277.0	276.6	276.4	276.0
117.5°	313.9	313.9	313.7	313.5	313.2	313.0	312.6	312.2	311.8	311.3	310.9
120°	336.1	336.0	336.0	336.1	336.3	336.4	336.2	335.8	335.4	334.9	334.5
122.5°	358.4	358.3	358.2	358.0	357.9	357.7	357.5	357.2	357.0	356.7	356.5
125°	389.3	389.0	389.2	389.4	389.6	389.9	389.8	389.3	388.9	388.4	388.0
127.5°	420.5	420.6	420.1	419.6	419.1	418.6	418.3	418.2	418.1	417.9	417.8
130°	439.2	439.1	438.8	438.4	438.1	437.7	437.6	437.5	437.3	437.2	437.1
132.5°	457.6	457.5	457.1	456.7	456.3	455.9	455.6	455.4	455.2	455.0	454.8
135°	483.0	482.8	482.3	481.9	481.5	481.0	480.9	481.0	481.1	481.2	481.3
137.5°	507.4	507.1	506.7	506.2	505.7	505.2	505.0	504.9	504.9	504.8	504.8
140°	522.4	522.1	521.9	521.7	521.4	521.2	521.0	520.7	520.6	520.3	520.1
142.5°	536.5	536.2	536.1	536.0	535.8	535.7	535.5	535.0	534.7	534.3	533.9
145°	556.6	556.5	556.5	556.5	556.5	556.5	556.3	555.9	555.6	555.3	555.0
147.5°	574.1	574.0	574.1	574.3	574.4	574.5	574.2	573.6	573.0	572.4	571.8
150°	585.4	585.4	585.6	585.7	585.7	585.9	585.7	585.3	584.9	584.4	583.9
152.5°	595.0	594.9	595.0	595.3	595.5	595.6	595.6	595.2	594.9	594.5	594.2
155°	608.0	607.5	607.9	608.2	608.6	608.8	609.0	608.8	608.7	608.6	608.6
157.5°	619.2	618.6	619.0	619.4	619.7	620.1	620.4	620.4	620.4	620.5	620.6
160°	626.4	625.7	625.8	625.9	626.0	626.1	626.4	626.7	627.0	627.3	627.7
162.5°	632.2	631.6	631.7	631.8	631.9	632.1	632.3	632.7	633.1	633.5	634.0
165°	640.3	639.5	639.5	639.5	639.5	639.5	639.7	640.2	640.8	641.4	641.9
167.5°	646.4	645.3	645.4	645.5	645.6	645.6	645.9	646.5	647.0	647.6	648.2
170°	650.1	649.3	649.2	649.0	648.9	648.8	649.1	649.8	650.4	651.1	651.8
172.5°	652.6	651.6	651.5	651.4	651.3	651.2	651.5	652.1	652.8	653.4	654.1
175°	655.1	654.2	654.1	654.0	653.8	653.8	654.0	654.7	655.3	656.0	656.7
177.5°	656.6	655.8	655.7	655.5	655.3	655.1	655.4	656.0	656.6	657.2	657.8
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	495.2	496.8	498.9	502.5	503.8	505.4	507.7	507.6	508.2	510.7	515.8
5°	497.0	503.3	509.5	516.8	524.5	529.6	536.5	540.8	545.1	550.6	560.0
7.5°	497.7	507.7	518.9	531.8	543.3	556.5	566.8	576.5	585.3	596.8	608.0
10°	496.6	510.1	524.5	540.8	558.1	572.8	586.1	601.2	614.0	628.0	640.7
12.5°	494.5	510.7	530.0	548.3	568.5	590.2	606.7	622.0	639.0	655.2	674.8
15°	489.7	511.9	534.5	558.5	585.7	610.7	634.6	654.3	672.6	696.9	722.4
17.5°	483.5	507.5	536.1	565.2	593.5	622.1	651.6	681.3	704.5	734.6	754.5
20°	477.9	505.6	534.9	569.6	597.9	633.5	662.9	691.6	723.4	753.4	777.2
22.5°	469.8	500.2	531.3	565.8	603.0	638.8	672.6	703.8	735.6	768.2	797.0
25°	459.7	487.2	524.1	563.2	600.3	639.0	678.0	717.0	751.3	785.7	812.6
27.5°	442.5	477.2	511.5	551.9	593.1	636.9	678.6	719.5	755.4	783.7	800.3
30°	433.6	463.8	501.1	541.7	586.3	633.4	676.7	716.9	750.3	772.9	779.6
32.5°	420.6	451.7	488.2	530.2	577.5	625.9	671.0	708.9	736.8	748.6	740.5
35°	401.2	429.4	466.2	509.2	558.4	609.8	654.5	686.5	700.8	689.6	661.7
37.5°	378.0	405.9	442.9	485.2	536.0	588.4	628.7	651.8	647.0	619.1	577.6
40°	361.7	387.8	423.0	468.6	518.1	570.8	606.2	618.6	605.6	565.7	521.4
42.5°	343.6	369.0	404.4	448.5	500.9	549.4	580.3	581.3	559.5	511.7	467.4
45°	316.1	340.3	373.7	419.6	468.0	513.7	534.1	524.1	483.7	437.7	393.0
47.5°	288.9	309.9	342.9	386.3	432.4	470.8	481.0	463.0	420.0	375.2	333.9
50°	269.0	290.2	321.2	362.7	407.2	440.3	445.2	421.4	379.2	334.2	301.8
52.5°	249.9	271.0	300.7	339.2	379.9	409.8	410.0	382.5	340.4	300.3	270.2
55°	221.9	240.8	267.8	302.2	338.5	361.9	356.2	327.7	291.2	256.3	230.1
57.5°	194.9	211.5	236.2	264.9	296.9	316.2	306.8	279.3	246.8	217.1	197.3
60°	177.5	193.2	214.4	241.5	268.4	283.4	274.5	249.6	219.6	195.8	178.5
62.5°	160.5	173.7	194.2	217.7	242.6	253.7	245.8	221.3	195.4	173.8	159.7
65°	136.6	147.3	163.6	183.8	201.9	211.5	204.8	181.9	162.2	146.7	135.5
67.5°	114.1	122.5	134.9	151.1	166.5	171.7	165.6	149.6	132.9	120.5	112.6
70°	98.6	106.6	116.9	129.4	142.8	148.4	142.2	129.6	116.0	104.5	96.8
72.5°	85.1	91.3	100.0	110.6	121.1	126.7	122.5	110.4	98.8	90.3	83.8
75°	64.8	70.1	76.2	83.8	91.9	95.6	91.9	83.5	75.6	69.3	64.6
77.5°	47.1	49.9	54.7	60.4	65.4	68.2	65.0	59.4	54.5	50.2	47.9
80°	35.9	37.9	41.2	45.6	49.1	51.7	49.7	45.0	41.2	38.3	37.3
82.5°	26.1	27.5	29.6	32.9	35.2	36.6	35.7	32.3	30.7	28.2	27.2
85°	12.8	13.7	15.1	16.1	18.2	18.3	18.5	17.1	15.7	15.1	14.3
87.5°	4.9	5.3	6.0	6.8	7.7	8.0	8.0	8.2	7.7	7.7	7.1
90°	2.7	3.9	5.1	6.3	7.3	8.2	9.0	9.9	10.8	11.5	12.1
92.5°	6.3	6.3	6.4	6.5	6.9	7.8	8.7	9.6	10.4	11.1	11.7
95°	23.3	19.6	15.8	12.1	10.3	10.5	10.6	10.7	10.8	11.5	12.1
97.5°	59.7	62.0	64.3	66.6	61.6	49.5	37.4	25.1	13.0	13.0	13.1
100°	82.5	84.5	86.4	88.4	81.9	66.8	51.7	36.7	21.6	19.7	17.9
102.5°	107.9	109.3	110.8	112.3	112.0	110.0	108.1	106.1	104.1	84.1	64.1
105°	148.5	149.1	149.8	150.4	151.0	151.6	152.1	152.7	153.3	154.2	155.2
107.5°	186.6	186.9	187.2	187.5	188.0	188.8	189.6	190.3	191.1	191.6	192.0
110°	212.5	212.8	213.2	213.4	214.0	214.6	215.2	215.9	216.6	216.8	217.1



TEST NUMBER: P332499-935

CATALOG NUMBER: SA4XXDIP-C350D590U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	237.9	238.5	239.1	239.7	240.1	240.4	240.7	241.1	241.3	241.3	241.3
115°	276.4	276.6	277.0	277.3	277.4	277.3	277.2	277.1	277.0	277.2	277.4
117.5°	311.3	311.8	312.2	312.6	313.0	313.2	313.5	313.7	313.9	313.9	313.8
120°	334.9	335.4	335.8	336.2	336.4	336.3	336.1	336.0	336.0	336.1	336.4
122.5°	356.7	357.0	357.2	357.5	357.7	357.9	358.0	358.2	358.3	358.4	358.6
125°	388.4	388.9	389.3	389.8	389.9	389.6	389.4	389.2	389.0	389.3	389.6
127.5°	417.9	418.1	418.2	418.3	418.6	419.1	419.6	420.1	420.6	420.5	420.5
130°	437.2	437.3	437.5	437.6	437.7	438.1	438.4	438.8	439.1	439.2	439.3
132.5°	455.0	455.2	455.4	455.6	455.9	456.3	456.7	457.1	457.5	457.6	457.8
135°	481.2	481.1	481.0	480.9	481.0	481.5	481.9	482.3	482.8	483.0	483.2
137.5°	504.8	504.9	504.9	505.0	505.2	505.7	506.2	506.7	507.1	507.4	507.6
140°	520.3	520.6	520.7	521.0	521.2	521.4	521.7	521.9	522.1	522.4	522.7
142.5°	534.3	534.7	535.0	535.5	535.7	535.8	536.0	536.1	536.2	536.5	536.7
145°	555.3	555.6	555.9	556.3	556.5	556.5	556.5	556.5	556.5	556.6	556.6
147.5°	572.4	573.0	573.6	574.2	574.5	574.4	574.3	574.1	574.0	574.1	574.2
150°	584.4	584.9	585.3	585.7	585.9	585.7	585.7	585.6	585.4	585.4	585.4
152.5°	594.5	594.9	595.2	595.6	595.6	595.5	595.3	595.0	594.9	595.0	595.2
155°	608.6	608.7	608.8	609.0	608.8	608.6	608.2	607.9	607.5	608.0	608.4
157.5°	620.5	620.4	620.4	620.4	620.1	619.7	619.4	619.0	618.6	619.2	619.7
160°	627.3	627.0	626.7	626.4	626.1	626.0	625.9	625.8	625.7	626.4	627.0
162.5°	633.5	633.1	632.7	632.3	632.1	631.9	631.8	631.7	631.6	632.2	632.9
165°	641.4	640.8	640.2	639.7	639.5	639.5	639.5	639.5	639.5	640.3	641.2
167.5°	647.6	647.0	646.5	645.9	645.6	645.6	645.5	645.4	645.3	646.4	647.3
170°	651.1	650.4	649.8	649.1	648.8	648.9	649.0	649.2	649.3	650.1	651.0
172.5°	653.4	652.8	652.1	651.5	651.2	651.3	651.4	651.5	651.6	652.6	653.4
175°	656.0	655.3	654.7	654.0	653.8	653.8	654.0	654.1	654.2	655.1	656.2
177.5°	657.2	656.6	656.0	655.4	655.1	655.3	655.5	655.7	655.8	656.6	657.3
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	491.9	491.9	491.9	491.9	491.9	491.9	491.9
2.5°	518.5	518.8	520.3	521.4	521.8	523.4	523.5
5°	564.0	567.5	574.2	574.8	575.8	581.2	577.0
7.5°	617.4	626.2	632.1	637.3	639.1	641.4	641.0
10°	651.7	664.7	671.2	681.7	682.0	684.7	683.0
12.5°	686.0	701.2	713.1	715.1	723.8	725.1	727.4
15°	734.8	750.9	767.4	773.4	785.3	788.2	792.6
17.5°	780.6	797.0	808.7	823.9	828.9	835.4	831.0
20°	805.7	823.6	838.4	850.3	855.4	859.1	858.7
22.5°	820.9	839.0	850.8	860.0	864.7	866.3	866.2
25°	830.3	840.8	844.5	847.9	842.6	840.8	841.5
27.5°	803.9	801.2	791.7	779.1	766.1	755.8	750.1
30°	767.6	751.7	737.3	712.0	699.0	691.2	684.2
32.5°	716.1	690.9	663.1	639.9	625.1	613.6	611.9
35°	627.8	590.0	555.9	527.5	512.9	500.5	497.6
37.5°	533.7	494.4	463.7	438.8	423.0	414.2	406.0
40°	471.3	437.5	407.3	386.2	374.1	367.8	362.7
42.5°	423.3	392.4	362.3	346.2	335.4	331.5	328.5
45°	356.8	328.0	307.3	295.1	288.8	282.2	279.1
47.5°	303.6	280.3	266.6	256.1	249.3	245.5	243.6
50°	273.5	254.3	242.1	234.1	228.0	225.0	223.3
52.5°	246.8	231.0	220.8	214.4	210.3	208.0	207.3
55°	212.5	200.5	194.0	188.5	185.5	183.4	182.6
57.5°	184.8	175.5	170.2	165.7	164.5	162.8	162.2
60°	166.5	159.4	154.9	151.8	150.8	148.8	149.1
62.5°	150.3	144.5	140.7	139.0	137.6	135.9	136.5
65°	127.2	122.9	120.8	119.2	117.6	116.6	117.4
67.5°	106.7	103.8	101.0	100.0	99.3	99.1	98.2
70°	93.3	90.9	88.4	87.8	87.8	87.0	86.8
72.5°	80.4	78.7	77.1	76.5	75.9	76.3	75.4
75°	62.2	60.7	60.1	59.5	59.3	59.3	58.7
77.5°	45.9	44.9	43.9	43.9	43.1	42.9	42.8
80°	34.9	34.4	33.7	33.7	33.2	33.4	33.0
82.5°	26.2	25.7	25.5	25.1	24.5	24.6	24.2
85°	14.0	13.4	13.3	12.7	12.2	12.7	12.2
87.5°	7.4	7.4	7.3	7.1	7.0	7.0	6.5
90°	12.7	13.4	13.9	14.1	14.3	14.6	14.7
92.5°	12.4	13.0	13.3	13.4	13.4	13.5	13.5
95°	12.7	13.4	13.8	13.9	14.0	14.1	14.2
97.5°	13.2	13.3	13.3	13.4	13.5	13.6	13.8
100°	16.0	14.2	13.3	13.4	13.5	13.6	13.8
102.5°	44.1	24.0	14.0	14.1	14.1	14.1	14.1
105°	156.2	157.1	155.7	151.8	147.8	143.9	140.0
107.5°	192.5	193.0	193.4	193.8	194.2	194.7	195.1
110°	217.2	217.5	217.7	218.1	218.3	218.7	219.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	241.3	241.2	241.3	241.8	242.2	242.6	243.0
115°	277.7	277.8	278.0	278.0	278.0	278.0	278.0
117.5°	313.8	313.7	313.7	313.7	313.7	313.6	313.6
120°	336.6	336.8	336.8	336.6	336.4	336.1	336.0
122.5°	358.7	358.9	358.8	358.6	358.3	358.2	357.9
125°	389.9	390.3	390.5	390.6	390.7	390.8	391.0
127.5°	420.4	420.3	420.3	420.2	420.1	420.0	419.9
130°	439.4	439.5	439.5	439.5	439.5	439.5	439.5
132.5°	457.9	458.0	458.0	457.9	457.8	457.7	457.6
135°	483.5	483.6	483.9	484.1	484.3	484.6	484.7
137.5°	507.9	508.1	508.2	508.2	508.1	508.0	507.9
140°	523.1	523.4	523.6	523.7	523.8	523.9	524.0
142.5°	536.9	537.2	537.4	537.4	537.4	537.4	537.4
145°	556.8	556.9	557.1	557.2	557.5	557.8	557.9
147.5°	574.3	574.4	574.5	574.6	574.7	574.8	574.9
150°	585.4	585.4	585.5	585.6	585.7	585.8	585.9
152.5°	595.4	595.6	595.6	595.6	595.5	595.4	595.4
155°	608.8	609.2	609.3	609.0	608.6	608.4	608.0
157.5°	620.4	620.9	620.9	620.4	619.7	619.2	618.6
160°	627.7	628.4	628.4	627.7	627.0	626.4	625.7
162.5°	633.5	634.2	634.2	633.4	632.7	632.0	631.2
165°	642.0	643.0	642.9	641.9	640.9	640.0	638.9
167.5°	648.2	649.2	649.1	648.1	647.0	645.8	644.8
170°	651.9	652.8	652.6	651.6	650.5	649.4	648.3
172.5°	654.3	655.1	655.0	653.8	652.6	651.4	650.2
175°	657.1	658.1	658.0	656.7	655.3	654.0	652.7
177.5°	658.0	658.7	658.5	657.5	656.4	655.3	654.3
180°	656.7	656.7	656.7	656.7	656.7	656.7	656.7

(END OF REPORT)