

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: P331240-935

Luminaire Tested: **SA2XXDIP-C290D330U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331240-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D330U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

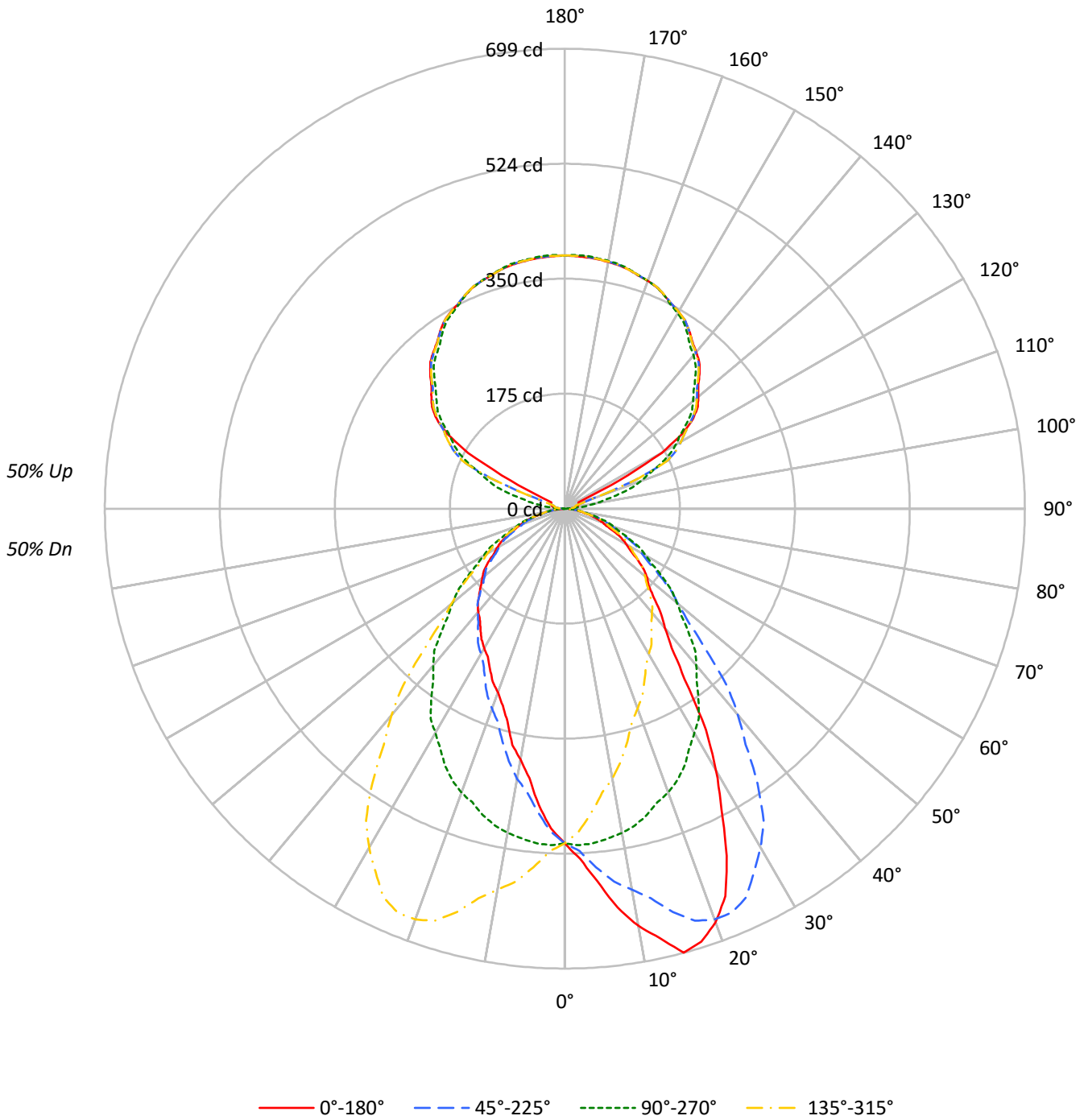
Lumens per Lamp: N/A
Luminaire Lumens: 2251.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50				
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48	43				
2	90	83	77	72	83	77	72	67	65	61	58	55	52	50	45	43	41	37				
3	82	73	66	60	76	68	62	57	58	53	49	49	45	43	40	38	36	32				
4	75	65	57	52	69	60	54	49	52	47	43	44	40	37	36	33	31	28				
5	69	58	50	45	64	54	47	42	47	41	37	39	35	32	33	30	28	24				
6	64	52	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24	22				
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	24	22	19				
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20	17				
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16				
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8217	8217	8217	8217
5°	9211	8271	7329	8271
10°	10557	8202	6342	8202
15°	11677	8052	5605	8052
20°	11500	7892	5108	7892
25°	10368	7675	4794	7675
30°	8569	7333	4566	7333
35°	6244	6974	4401	6974
40°	4989	6551	4312	6551
45°	4359	6060	4190	6060
50°	4099	5586	4107	5586
55°	3775	5103	3997	5103
60°	3462	4592	3830	4592
65°	3156	4130	3660	4130
70°	2861	3682	3418	3682
75°	2539	3188	3026	3188
80°	2185	2631	2436	2631
85°	1964	1964	1445	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	2.2
10°-20°	140.9	6.3
20°-30°	204.5	9.1
30°-40°	215.8	9.6
40°-50°	191.1	8.5
50°-60°	152.5	6.8
60°-70°	103.6	4.6
70°-80°	53.1	2.4
80°-90°	13.8	0.6
90°-100°	12.8	0.6
100°-110°	47.1	2.1
110°-120°	125.8	5.6
120°-130°	207.7	9.2
130°-140°	220.8	9.8
140°-150°	205.3	9.1
150°-160°	165.0	7.3
160°-170°	106.3	4.7
170°-180°	36.6	1.6
0°-30°	393.9	17.5
0°-40°	609.7	27.1
0°-60°	953.2	42.3
0°-90°	1123.7	49.9
90°-120°	185.7	8.2
90°-150°	819.5	36.4
90°-180°	1127.0	50.1
0°-180°	2251.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	568	510	452	510	568	57
15°	699	482	335	482	699	193
25°	582	431	269	431	582	263
35°	317	354	223	354	317	206
45°	191	265	184	265	191	150
55°	134	181	142	181	134	120
65°	83	108	96	108	83	82
75°	41	51	48	51	41	43
85°	11	11	8	11	11	12
90°	8	0	8	0	8	4
95°	12	18	12	18	12	11
105°	21	85	21	85	21	22
115°	23	160	23	160	23	57
125°	238	226	238	226	238	206
135°	289	280	289	280	289	223
145°	330	325	330	325	330	206
155°	358	358	358	358	358	165
165°	376	377	376	377	376	106
175°	383	386	383	386	383	37
180°	385	385	385	385	385	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	532.4	532.5	532.9	530.4	530.0	530.0	527.9	526.0	523.7	520.8	521.2
5°	568.3	570.5	571.3	568.9	565.4	565.1	561.7	556.3	551.1	547.1	544.2
7.5°	611.3	612.2	610.3	607.2	604.6	599.9	593.7	587.6	579.1	571.4	565.6
10°	643.9	645.1	641.7	637.2	633.5	628.0	619.1	609.8	598.7	588.0	579.4
12.5°	668.6	671.5	667.2	666.7	660.3	652.7	642.0	637.4	621.7	606.7	597.4
15°	698.6	698.4	698.9	695.1	690.4	689.2	678.0	665.6	643.5	634.6	619.4
17.5°	689.9	692.9	694.3	694.2	694.1	693.4	689.7	682.0	670.9	656.6	639.0
20°	669.3	673.2	673.8	678.3	680.9	684.2	685.5	683.4	676.6	664.6	649.4
22.5°	637.4	638.5	640.3	647.3	652.8	661.2	665.5	672.8	670.1	664.3	651.5
25°	582.0	580.1	586.9	590.5	603.2	616.5	626.1	636.6	646.0	651.7	648.0
27.5°	515.7	512.7	523.0	532.4	542.6	557.1	572.0	589.6	604.2	622.7	629.0
30°	459.6	461.4	471.1	481.1	496.8	517.1	534.0	553.3	574.3	594.8	609.1
32.5°	399.2	406.0	412.2	427.5	441.3	463.9	488.6	512.8	538.9	562.2	584.4
35°	316.8	324.7	333.3	344.4	363.8	386.2	410.4	443.0	478.6	510.5	536.7
37.5°	266.7	265.4	270.4	278.4	294.1	312.3	340.0	372.2	414.1	451.6	488.6
40°	236.7	235.9	239.4	246.8	258.7	272.1	296.4	324.7	363.6	409.4	453.4
42.5°	216.0	216.5	218.4	223.7	231.9	242.8	261.0	285.1	320.7	363.9	411.1
45°	190.9	192.3	194.4	197.0	201.6	210.7	220.8	238.1	266.2	302.2	348.7
47.5°	172.8	172.9	175.0	177.3	180.0	185.1	193.5	204.2	224.1	253.4	293.4
50°	163.2	161.8	163.3	165.1	168.0	171.5	177.0	187.2	200.4	224.1	257.6
52.5°	151.2	151.3	152.7	153.3	155.9	159.5	164.5	171.5	183.6	202.1	229.5
55°	134.1	135.2	136.0	137.1	139.5	142.0	145.9	150.6	160.0	173.8	194.2
57.5°	118.1	118.5	119.2	121.5	123.0	125.3	129.0	133.3	139.4	149.6	165.0
60°	107.2	107.2	108.7	109.7	111.7	114.0	116.9	121.1	126.6	134.9	147.3
62.5°	97.2	97.0	97.6	99.3	100.7	102.9	105.8	109.3	114.5	122.0	132.1
65°	82.6	82.1	83.3	83.7	85.2	87.4	89.8	93.5	97.6	103.1	112.1
67.5°	68.4	69.0	69.6	70.3	71.1	73.4	75.0	77.6	81.1	85.7	91.7
70°	60.6	60.6	60.6	61.2	62.4	63.5	65.1	67.2	70.6	74.5	80.0
72.5°	51.8	52.5	53.1	52.8	54.2	54.9	56.8	58.0	61.2	63.7	68.5
75°	40.7	40.7	40.7	41.7	42.3	42.8	44.0	45.2	46.8	49.9	52.4
77.5°	30.4	30.3	30.5	30.7	31.3	32.0	32.4	33.4	34.9	36.3	38.5
80°	23.5	23.8	24.0	24.5	24.5	24.8	25.1	26.4	27.4	28.3	29.7
82.5°	18.2	18.3	18.3	18.3	18.5	18.8	19.3	19.7	20.1	20.8	21.9
85°	10.6	10.3	10.3	10.8	10.6	10.6	10.9	11.4	11.4	11.5	12.1
87.5°	5.6	5.5	5.7	5.5	5.5	5.6	5.5	5.3	5.4	5.5	5.5
90°	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2	5.9	5.6	5.1
92.5°	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8	6.6	6.5	6.2
95°	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5	11.2	10.8	10.4
97.5°	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1	14.8	14.6	13.5
100°	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9	16.4	15.8	14.8
102.5°	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6	17.0	16.3	25.1
105°	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3	17.7	17.0	33.8
107.5°	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4	23.1	23.8	44.0
110°	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3	42.5	48.7	66.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7	100.3	122.9	127.3
115°	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5	143.1	171.8	170.2
117.5°	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4	183.3	190.3	189.2
120°	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5	204.8	204.1	202.9
122.5°	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1	217.7	217.2	216.0
125°	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1	235.7	235.2	234.0
127.5°	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8	252.1	251.5	250.6
130°	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3	262.6	262.0	261.3
132.5°	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6	273.0	272.4	271.7
135°	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3	287.7	287.1	286.5
137.5°	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9	301.3	300.7	300.1
140°	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6	310.1	309.5	308.9
142.5°	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8	318.3	317.8	317.0
145°	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2	329.8	329.3	328.3
147.5°	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1	339.8	339.5	338.5
150°	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2	345.9	345.5	344.5
152.5°	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8	351.4	351.0	350.1
155°	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3	359.0	358.5	357.8
157.5°	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7	365.2	364.8	364.3
160°	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4	368.9	368.6	368.2
162.5°	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7	372.4	372.0	371.6
165°	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9	376.5	376.1	375.9
167.5°	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5	380.0	379.6	379.4
170°	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3	381.9	381.4	381.3
172.5°	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6	383.1	382.7	382.6
175°	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0	384.6	384.2	384.1
177.5°	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2	384.9	384.5	384.4
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	522.2	521.0	520.2	517.4	514.9	512.4	511.6	511.9	508.4	505.1	503.8
5°	542.6	538.6	534.9	529.7	523.4	516.5	513.1	510.3	503.4	496.0	491.7
7.5°	560.8	555.2	548.0	538.1	529.0	518.2	511.3	505.3	495.3	484.8	478.4
10°	571.9	564.3	555.1	542.9	531.8	518.7	509.5	500.3	488.6	476.0	468.2
12.5°	581.4	571.2	562.1	546.6	533.4	516.9	506.1	493.1	480.8	465.9	458.2
15°	604.2	585.2	568.0	550.4	534.2	511.3	499.1	481.7	465.5	447.1	438.3
17.5°	621.7	600.4	573.3	551.0	532.0	506.6	488.9	468.0	448.8	427.8	415.9
20°	631.7	607.3	578.2	551.6	528.9	499.9	480.5	459.3	436.8	413.1	400.2
22.5°	637.7	612.0	583.2	549.2	522.6	494.5	470.1	446.7	424.0	398.4	384.9
25°	639.6	616.1	585.6	547.3	514.8	482.9	453.6	430.8	403.3	379.4	359.7
27.5°	630.3	613.5	584.1	543.5	505.8	468.5	435.8	410.1	381.0	355.1	335.2
30°	618.8	609.1	580.5	539.8	498.5	458.5	422.5	393.3	364.4	338.2	317.8
32.5°	601.2	599.1	573.9	534.5	490.9	445.8	408.5	379.1	347.0	321.2	301.9
35°	566.5	575.8	560.0	522.6	476.5	427.7	387.4	353.8	320.6	295.9	277.8
37.5°	519.9	543.2	539.1	505.2	456.9	408.1	363.6	328.5	296.8	271.9	254.1
40°	487.8	517.5	521.9	491.9	443.2	393.0	345.8	310.8	279.9	257.2	239.2
42.5°	453.4	488.1	499.9	476.0	428.2	376.9	329.8	293.6	262.9	240.9	225.0
45°	395.7	441.6	463.0	449.3	403.1	350.7	302.2	265.4	237.6	216.9	204.6
47.5°	341.7	391.9	420.6	415.8	375.2	323.3	275.3	240.0	213.0	196.5	185.5
50°	303.6	355.2	389.8	391.4	355.2	303.8	255.6	222.4	197.5	182.1	173.1
52.5°	270.4	319.7	357.4	365.8	332.8	283.4	238.0	204.8	183.0	168.8	160.7
55°	227.0	268.7	310.6	325.9	299.5	252.5	210.4	181.3	160.7	151.0	144.0
57.5°	188.8	223.5	262.2	279.1	262.8	222.6	183.1	157.8	141.2	132.6	127.2
60°	168.6	196.0	230.4	250.6	236.4	200.7	166.3	142.2	128.5	120.9	115.8
62.5°	149.8	174.1	203.2	221.6	214.0	180.2	149.4	128.1	116.3	109.2	105.5
65°	123.6	142.8	165.3	182.3	177.2	151.6	126.3	108.1	98.8	93.1	90.1
67.5°	101.8	115.6	131.2	146.1	142.1	123.9	103.7	89.5	82.5	77.6	75.8
70°	88.0	98.6	112.4	124.4	121.1	106.2	90.1	78.0	72.0	67.8	66.1
72.5°	74.9	83.5	94.2	103.9	101.7	89.3	75.9	66.8	62.1	58.3	56.9
75°	56.6	63.2	69.7	76.1	75.5	66.0	58.1	51.1	47.4	44.4	43.8
77.5°	41.8	45.5	49.9	53.6	52.6	47.1	41.0	36.9	34.3	32.3	31.9
80°	31.9	34.0	37.2	39.9	38.6	36.2	31.3	28.3	26.4	24.5	23.7
82.5°	23.2	25.2	27.1	28.7	27.6	25.4	22.4	20.4	19.2	17.9	17.6
85°	12.1	13.3	14.1	14.5	14.1	12.7	11.4	10.6	9.6	9.0	8.8
87.5°	5.6	5.5	5.4	5.6	5.0	4.9	4.1	3.5	3.4	3.4	3.3
90°	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3	0.9	1.6	2.3
92.5°	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6	5.6	5.5	5.4
95°	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1	16.0	14.0	12.0
97.5°	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9	30.1	24.4	18.7
100°	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2	40.8	32.3	23.8
102.5°	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0	62.2	60.4	58.6
105°	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6	86.4	88.3	90.2
107.5°	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1	109.7	111.2	112.7
110°	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3	124.6	126.0	127.3



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6	138.7	139.9	141.0
115°	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1	161.1	162.2	163.2
117.5°	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2	181.3	182.5	183.7
120°	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8	195.8	196.7	197.7
122.5°	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3	208.4	209.3	210.3
125°	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4	227.1	227.9	228.8
127.5°	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5	244.4	245.3	246.2
130°	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4	255.5	256.4	257.4
132.5°	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6	266.4	267.3	268.1
135°	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1	281.0	282.1	283.0
137.5°	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7	295.4	296.1	296.8
140°	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3	304.8	305.2	305.7
142.5°	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3	312.7	313.1	313.7
145°	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9	324.9	324.8	324.7
147.5°	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9	335.6	335.4	335.1
150°	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9	342.5	342.1	341.6
152.5°	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0	348.5	348.0	347.5
155°	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7	357.1	356.6	356.0
157.5°	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5	364.1	363.6	363.2
160°	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.2	367.8	367.5
162.5°	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1	371.8	371.4	371.0
165°	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9	376.6	376.2	375.8
167.5°	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5	380.1	379.8	379.4
170°	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5	382.1	381.8	381.4
172.5°	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8	383.5	383.1	382.7
175°	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6	385.1	384.7	384.3
177.5°	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8	385.5	385.1	384.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	502.2	501.3	498.0	496.3	493.4	490.8	489.0	489.8	490.4	490.2	489.7
5°	487.8	484.1	478.4	473.6	470.0	463.6	460.8	459.4	458.2	456.9	455.6
7.5°	470.6	464.8	456.7	449.7	443.2	435.1	430.5	427.8	425.0	421.9	419.1
10°	458.5	450.2	441.6	431.9	424.0	416.8	410.4	406.0	402.1	398.4	395.7
12.5°	445.7	436.2	425.5	412.2	403.6	393.1	392.2	384.6	378.5	376.2	373.0
15°	425.2	411.9	398.4	382.5	375.7	366.4	360.5	354.6	349.3	345.6	344.7
17.5°	402.0	384.8	371.3	360.0	348.8	339.1	333.7	329.1	324.7	319.8	319.1
20°	384.4	369.5	354.8	344.8	333.3	323.5	316.8	312.2	308.4	305.5	303.0
22.5°	367.6	351.3	337.9	327.0	315.6	307.7	302.5	297.9	294.8	291.6	289.2
25°	340.7	328.0	313.3	301.0	291.6	286.5	282.2	278.4	276.4	274.2	271.5
27.5°	317.2	303.1	289.4	279.8	271.6	267.1	264.0	261.3	259.5	258.2	256.7
30°	300.7	286.4	275.6	266.2	259.3	254.9	252.9	251.3	249.2	248.4	247.6
32.5°	284.6	271.8	262.6	254.4	248.0	245.0	243.2	241.8	240.1	239.4	237.7
35°	262.1	251.3	242.4	237.8	232.6	230.0	228.7	226.7	225.2	224.4	224.1
37.5°	240.8	231.5	225.6	219.8	217.6	216.0	214.1	212.8	212.3	212.2	212.0
40°	227.0	219.5	214.1	209.5	208.5	206.1	204.6	203.5	203.5	203.6	203.5
42.5°	214.6	207.7	203.0	199.0	197.9	196.5	194.8	194.8	195.1	195.8	195.1
45°	195.6	190.7	187.4	185.5	183.3	181.9	181.7	182.3	182.4	182.7	183.3
47.5°	178.1	174.9	171.9	169.7	168.8	168.6	168.3	169.4	170.3	170.7	171.5
50°	167.8	164.1	161.5	160.1	159.4	159.0	159.4	160.6	161.4	162.3	162.9
52.5°	156.3	153.6	151.9	150.8	150.5	150.8	150.8	152.1	153.3	153.8	154.0
55°	140.3	138.3	137.9	136.1	136.9	136.7	137.7	138.4	139.7	140.9	141.0
57.5°	124.2	122.7	121.7	121.8	122.1	123.0	123.7	125.1	126.3	127.6	127.7
60°	113.7	112.9	112.3	112.3	112.6	113.8	114.8	116.1	116.9	117.8	118.3
62.5°	103.9	103.1	102.5	102.9	103.9	104.6	105.7	106.5	107.3	108.1	108.3
65°	88.6	88.3	88.8	89.2	89.4	90.3	91.7	92.3	93.1	93.5	94.9
67.5°	74.5	74.6	74.5	75.0	76.2	76.4	77.7	79.0	79.2	80.0	80.8
70°	64.9	65.3	65.7	66.1	67.1	67.5	68.4	69.1	69.8	70.4	71.0
72.5°	56.1	56.2	56.7	56.6	57.4	58.2	59.1	59.7	60.4	61.2	61.7
75°	43.2	43.2	43.7	43.8	44.8	45.8	45.5	46.0	46.8	47.5	48.0
77.5°	31.6	31.2	31.6	31.8	32.1	32.9	33.1	33.6	34.5	34.3	34.7
80°	24.0	23.5	24.0	24.3	24.3	25.2	25.2	25.7	26.2	25.7	26.2
82.5°	17.1	16.9	17.3	17.4	17.7	17.7	18.0	18.1	18.7	18.4	18.7
85°	8.6	8.4	8.6	8.4	8.6	8.8	8.8	8.6	8.6	9.0	8.4
87.5°	3.3	3.2	3.2	3.3	3.2	3.2	3.0	3.1	3.2	2.9	2.9
90°	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2	6.5	6.8	7.1
92.5°	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8	7.0	7.1	7.2
95°	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5	11.8	12.1	12.2
97.5°	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1	15.2	15.5	15.7
100°	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9	17.4	17.8	18.2
102.5°	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6	18.3	18.9	19.3
105°	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3	19.0	19.7	20.1
107.5°	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4	21.7	21.0	20.8
110°	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3	30.1	23.9	21.0



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7	55.2	32.6	21.4
115°	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5	85.8	57.2	40.6
117.5°	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4	169.4	162.6	151.8
120°	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5	206.3	207.0	203.2
122.5°	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1	218.5	219.0	218.3
125°	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1	236.5	236.9	237.3
127.5°	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8	253.4	254.0	254.3
130°	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3	264.0	264.7	265.0
132.5°	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6	274.1	274.7	275.0
135°	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3	288.9	289.5	289.7
137.5°	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9	302.5	303.1	303.2
140°	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6	311.3	311.8	311.9
142.5°	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8	319.3	319.9	319.9
145°	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2	330.6	331.1	331.1
147.5°	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1	340.4	340.8	340.8
150°	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2	346.6	347.0	347.0
152.5°	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8	352.1	352.5	352.5
155°	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3	359.6	360.1	360.0
157.5°	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7	366.1	366.4	366.4
160°	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4	369.7	370.1	370.1
162.5°	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7	373.2	373.6	373.6
165°	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9	377.4	377.8	377.8
167.5°	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5	380.9	381.3	381.3
170°	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3	382.7	383.1	383.1
172.5°	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6	384.0	384.4	384.4
175°	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0	385.5	385.9	385.8
177.5°	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2	385.6	385.9	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	488.1	487.8	487.8	486.4	487.8	487.8	488.1	489.7	490.2	490.4	489.8
5°	452.8	452.2	451.3	452.2	451.3	452.2	452.8	455.6	456.9	458.2	459.4
7.5°	417.8	415.5	415.2	412.8	415.2	415.5	417.8	419.1	421.9	425.0	427.8
10°	392.4	390.8	390.5	386.8	390.5	390.8	392.4	395.7	398.4	402.1	406.0
12.5°	373.0	369.2	370.0	367.8	370.0	369.2	373.0	373.0	376.2	378.5	384.6
15°	339.3	339.3	338.5	335.3	338.5	339.3	339.3	344.7	345.6	349.3	354.6
17.5°	315.2	314.8	313.0	313.9	313.0	314.8	315.2	319.1	319.8	324.7	329.1
20°	300.8	299.6	297.3	297.3	297.3	299.6	300.8	303.0	305.5	308.4	312.2
22.5°	287.2	287.1	284.6	285.4	284.6	287.1	287.2	289.2	291.6	294.8	297.9
25°	271.3	269.8	268.5	269.1	268.5	269.8	271.3	271.5	274.2	276.4	278.4
27.5°	256.1	255.3	255.2	253.7	255.2	255.3	256.1	256.7	258.2	259.5	261.3
30°	247.5	245.5	245.8	244.9	245.8	245.5	247.5	247.6	248.4	249.2	251.3
32.5°	237.4	236.7	236.3	235.5	236.3	236.7	237.4	237.7	239.4	240.1	241.8
35°	223.8	223.9	223.0	223.3	223.0	223.9	223.8	224.1	224.4	225.2	226.7
37.5°	211.8	212.4	212.0	212.1	212.0	212.4	211.8	212.0	212.2	212.3	212.8
40°	204.0	204.0	204.0	204.6	204.0	204.0	204.0	203.5	203.6	203.5	203.5
42.5°	196.5	196.1	195.9	195.8	195.9	196.1	196.5	195.1	195.8	195.1	194.8
45°	183.7	184.3	184.4	183.5	184.4	184.3	183.7	183.3	182.7	182.4	182.3
47.5°	172.0	172.1	172.0	172.9	172.0	172.1	172.0	171.5	170.7	170.3	169.4
50°	163.9	163.5	163.9	163.5	163.9	163.5	163.9	162.9	162.3	161.4	160.6
52.5°	155.3	155.4	155.2	155.1	155.2	155.4	155.3	154.0	153.8	153.3	152.1
55°	141.8	142.2	142.0	142.0	142.0	142.2	141.8	141.0	140.9	139.7	138.4
57.5°	127.9	128.2	128.5	127.6	128.5	128.2	127.9	127.7	127.6	126.3	125.1
60°	118.1	119.1	118.9	118.6	118.9	119.1	118.1	118.3	117.8	116.9	116.1
62.5°	109.2	109.6	109.5	109.4	109.5	109.6	109.2	108.3	108.1	107.3	106.5
65°	95.5	95.8	95.2	95.8	95.2	95.8	95.5	94.9	93.5	93.1	92.3
67.5°	80.6	80.8	81.2	81.5	81.2	80.8	80.6	80.8	80.0	79.2	79.0
70°	71.4	71.2	71.8	72.4	71.8	71.2	71.4	71.0	70.4	69.8	69.1
72.5°	61.6	62.1	61.9	62.3	61.9	62.1	61.6	61.7	61.2	60.4	59.7
75°	47.5	48.1	48.0	48.5	48.0	48.1	47.5	48.0	47.5	46.8	46.0
77.5°	34.4	34.4	34.4	34.7	34.4	34.4	34.4	34.7	34.3	34.5	33.6
80°	26.2	25.8	25.4	26.2	25.4	25.8	26.2	26.2	25.7	26.2	25.7
82.5°	18.3	18.4	18.1	18.1	18.1	18.4	18.3	18.7	18.4	18.7	18.1
85°	8.4	8.2	7.8	7.8	7.8	8.2	8.4	8.4	9.0	8.6	8.6
87.5°	3.0	2.8	2.9	2.8	2.9	2.8	3.0	2.9	2.9	3.2	3.1
90°	7.1	7.2	7.4	7.5	7.4	7.2	7.1	7.1	6.8	6.5	6.2
92.5°	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.2	7.1	7.0	6.8
95°	12.1	12.1	12.1	12.0	12.1	12.1	12.1	12.2	12.1	11.8	11.5
97.5°	15.8	15.8	15.9	16.0	15.9	15.8	15.8	15.7	15.5	15.2	15.1
100°	18.3	18.4	18.5	18.7	18.5	18.4	18.3	18.2	17.8	17.4	16.9
102.5°	19.5	19.6	19.8	20.0	19.8	19.6	19.5	19.3	18.9	18.3	17.6
105°	20.4	20.7	20.9	21.2	20.9	20.7	20.4	20.1	19.7	19.0	18.3
107.5°	21.0	21.3	21.5	21.8	21.5	21.3	21.0	20.8	21.0	21.7	22.4
110°	21.3	21.5	21.8	22.0	21.8	21.5	21.3	21.0	23.9	30.1	36.3



TEST NUMBER: P331240-935
 CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.6	21.8	22.0	22.2	22.0	21.8	21.6	21.4	32.6	55.2	77.7
115°	36.2	31.8	27.3	22.8	27.3	31.8	36.2	40.6	57.2	85.8	114.5
117.5°	137.2	122.5	107.9	93.2	107.9	122.5	137.2	151.8	162.6	169.4	176.4
120°	194.8	186.5	178.1	169.8	178.1	186.5	194.8	203.2	207.0	206.3	205.5
122.5°	216.8	215.2	213.5	211.9	213.5	215.2	216.8	218.3	219.0	218.5	218.1
125°	237.5	237.6	237.8	238.0	237.8	237.6	237.5	237.3	236.9	236.5	236.1
127.5°	254.4	254.4	254.4	254.5	254.4	254.4	254.4	254.3	254.0	253.4	252.8
130°	264.9	264.8	264.8	264.8	264.8	264.8	264.9	265.0	264.7	264.0	263.3
132.5°	274.9	274.9	274.8	274.7	274.8	274.9	274.9	275.0	274.7	274.1	273.6
135°	289.6	289.5	289.4	289.2	289.4	289.5	289.6	289.7	289.5	288.9	288.3
137.5°	303.1	302.9	302.6	302.5	302.6	302.9	303.1	303.2	303.1	302.5	301.9
140°	311.6	311.3	311.0	310.6	311.0	311.3	311.6	311.9	311.8	311.3	310.6
142.5°	319.6	319.3	319.0	318.7	319.0	319.3	319.6	319.9	319.9	319.3	318.8
145°	330.8	330.5	330.2	329.8	330.2	330.5	330.8	331.1	331.1	330.6	330.2
147.5°	340.5	340.3	340.0	339.8	340.0	340.3	340.5	340.8	340.8	340.4	340.1
150°	346.7	346.4	346.0	345.8	346.0	346.4	346.7	347.0	347.0	346.6	346.2
152.5°	352.1	351.7	351.3	350.9	351.3	351.7	352.1	352.5	352.5	352.1	351.8
155°	359.5	359.0	358.5	358.0	358.5	359.0	359.5	360.0	360.1	359.6	359.3
157.5°	365.9	365.5	365.0	364.5	365.0	365.5	365.9	366.4	366.4	366.1	365.7
160°	369.6	369.2	368.8	368.3	368.8	369.2	369.6	370.1	370.1	369.7	369.4
162.5°	373.0	372.5	372.0	371.4	372.0	372.5	373.0	373.6	373.6	373.2	372.7
165°	377.4	376.9	376.5	376.1	376.5	376.9	377.4	377.8	377.8	377.4	376.9
167.5°	380.7	380.1	379.6	379.0	379.6	380.1	380.7	381.3	381.3	380.9	380.5
170°	382.5	381.9	381.4	380.8	381.4	381.9	382.5	383.1	383.1	382.7	382.3
172.5°	383.8	383.3	382.7	382.2	382.7	383.3	383.8	384.4	384.4	384.0	383.6
175°	385.2	384.6	383.9	383.3	383.9	384.6	385.2	385.8	385.9	385.5	385.0
177.5°	385.4	385.0	384.5	384.1	384.5	385.0	385.4	385.8	385.9	385.6	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	489.0	490.8	493.4	496.3	498.0	501.3	502.2	503.8	505.1	508.4	511.9
5°	460.8	463.6	470.0	473.6	478.4	484.1	487.8	491.7	496.0	503.4	510.3
7.5°	430.5	435.1	443.2	449.7	456.7	464.8	470.6	478.4	484.8	495.3	505.3
10°	410.4	416.8	424.0	431.9	441.6	450.2	458.5	468.2	476.0	488.6	500.3
12.5°	392.2	393.1	403.6	412.2	425.5	436.2	445.7	458.2	465.9	480.8	493.1
15°	360.5	366.4	375.7	382.5	398.4	411.9	425.2	438.3	447.1	465.5	481.7
17.5°	333.7	339.1	348.8	360.0	371.3	384.8	402.0	415.9	427.8	448.8	468.0
20°	316.8	323.5	333.3	344.8	354.8	369.5	384.4	400.2	413.1	436.8	459.3
22.5°	302.5	307.7	315.6	327.0	337.9	351.3	367.6	384.9	398.4	424.0	446.7
25°	282.2	286.5	291.6	301.0	313.3	328.0	340.7	359.7	379.4	403.3	430.8
27.5°	264.0	267.1	271.6	279.8	289.4	303.1	317.2	335.2	355.1	381.0	410.1
30°	252.9	254.9	259.3	266.2	275.6	286.4	300.7	317.8	338.2	364.4	393.3
32.5°	243.2	245.0	248.0	254.4	262.6	271.8	284.6	301.9	321.2	347.0	379.1
35°	228.7	230.0	232.6	237.8	242.4	251.3	262.1	277.8	295.9	320.6	353.8
37.5°	214.1	216.0	217.6	219.8	225.6	231.5	240.8	254.1	271.9	296.8	328.5
40°	204.6	206.1	208.5	209.5	214.1	219.5	227.0	239.2	257.2	279.9	310.8
42.5°	194.8	196.5	197.9	199.0	203.0	207.7	214.6	225.0	240.9	262.9	293.6
45°	181.7	181.9	183.3	185.5	187.4	190.7	195.6	204.6	216.9	237.6	265.4
47.5°	168.3	168.6	168.8	169.7	171.9	174.9	178.1	185.5	196.5	213.0	240.0
50°	159.4	159.0	159.4	160.1	161.5	164.1	167.8	173.1	182.1	197.5	222.4
52.5°	150.8	150.8	150.5	150.8	151.9	153.6	156.3	160.7	168.8	183.0	204.8
55°	137.7	136.7	136.9	136.1	137.9	138.3	140.3	144.0	151.0	160.7	181.3
57.5°	123.7	123.0	122.1	121.8	121.7	122.7	124.2	127.2	132.6	141.2	157.8
60°	114.8	113.8	112.6	112.3	112.3	112.9	113.7	115.8	120.9	128.5	142.2
62.5°	105.7	104.6	103.9	102.9	102.5	103.1	103.9	105.5	109.2	116.3	128.1
65°	91.7	90.3	89.4	89.2	88.8	88.3	88.6	90.1	93.1	98.8	108.1
67.5°	77.7	76.4	76.2	75.0	74.5	74.6	74.5	75.8	77.6	82.5	89.5
70°	68.4	67.5	67.1	66.1	65.7	65.3	64.9	66.1	67.8	72.0	78.0
72.5°	59.1	58.2	57.4	56.6	56.7	56.2	56.1	56.9	58.3	62.1	66.8
75°	45.5	45.8	44.8	43.8	43.7	43.2	43.2	43.8	44.4	47.4	51.1
77.5°	33.1	32.9	32.1	31.8	31.6	31.2	31.6	31.9	32.3	34.3	36.9
80°	25.2	25.2	24.3	24.3	24.0	23.5	24.0	23.7	24.5	26.4	28.3
82.5°	18.0	17.7	17.7	17.4	17.3	16.9	17.1	17.6	17.9	19.2	20.4
85°	8.8	8.8	8.6	8.4	8.6	8.4	8.6	8.8	9.0	9.6	10.6
87.5°	3.0	3.2	3.2	3.3	3.2	3.2	3.3	3.3	3.4	3.4	3.5
90°	5.9	5.6	5.1	4.6	4.0	3.6	3.0	2.3	1.6	0.9	0.3
92.5°	6.6	6.5	6.2	5.9	5.7	5.5	5.3	5.4	5.5	5.6	5.6
95°	11.2	10.8	10.4	10.0	9.6	9.1	9.9	12.0	14.0	16.0	18.1
97.5°	14.8	14.6	13.5	12.5	11.5	10.5	12.9	18.7	24.4	30.1	35.9
100°	16.4	15.8	14.8	13.8	12.7	11.6	15.4	23.8	32.3	40.8	49.2
102.5°	17.0	16.3	25.1	33.9	42.7	51.5	56.8	58.6	60.4	62.2	64.0
105°	17.7	17.0	33.8	50.8	67.7	84.6	92.0	90.2	88.3	86.4	84.6
107.5°	23.1	23.8	44.0	64.3	84.6	104.8	114.2	112.7	111.2	109.7	108.1
110°	42.5	48.7	66.6	84.5	102.4	120.2	128.5	127.3	126.0	124.6	123.3



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	100.3	122.9	127.3	131.7	136.1	140.5	142.2	141.0	139.9	138.7	137.6
115°	143.1	171.8	170.2	168.7	167.1	165.6	164.3	163.2	162.2	161.1	160.1
117.5°	183.3	190.3	189.2	188.1	187.1	186.0	184.9	183.7	182.5	181.3	180.2
120°	204.8	204.1	202.9	201.8	200.7	199.6	198.5	197.7	196.7	195.8	194.8
122.5°	217.7	217.2	216.0	214.7	213.5	212.3	211.3	210.3	209.3	208.4	207.3
125°	235.7	235.2	234.0	232.9	231.7	230.6	229.5	228.8	227.9	227.1	226.4
127.5°	252.1	251.5	250.6	249.8	248.8	248.0	247.1	246.2	245.3	244.4	243.5
130°	262.6	262.0	261.3	260.6	259.9	259.2	258.4	257.4	256.4	255.5	254.4
132.5°	273.0	272.4	271.7	271.0	270.4	269.7	269.0	268.1	267.3	266.4	265.6
135°	287.7	287.1	286.5	285.9	285.3	284.8	284.0	283.0	282.1	281.0	280.1
137.5°	301.3	300.7	300.1	299.4	298.8	298.2	297.5	296.8	296.1	295.4	294.7
140°	310.1	309.5	308.9	308.2	307.5	306.9	306.3	305.7	305.2	304.8	304.3
142.5°	318.3	317.8	317.0	316.2	315.5	314.7	314.1	313.7	313.1	312.7	312.3
145°	329.8	329.3	328.3	327.3	326.1	325.1	324.6	324.7	324.8	324.9	324.9
147.5°	339.8	339.5	338.5	337.4	336.3	335.3	334.9	335.1	335.4	335.6	335.9
150°	345.9	345.5	344.5	343.5	342.5	341.6	341.2	341.6	342.1	342.5	342.9
152.5°	351.4	351.0	350.1	349.1	348.2	347.2	347.1	347.5	348.0	348.5	349.0
155°	359.0	358.5	357.8	357.1	356.4	355.6	355.5	356.0	356.6	357.1	357.7
157.5°	365.2	364.8	364.3	363.8	363.3	362.7	362.7	363.2	363.6	364.1	364.5
160°	368.9	368.6	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6
162.5°	372.4	372.0	371.6	371.3	370.9	370.7	370.7	371.0	371.4	371.8	372.1
165°	376.5	376.1	375.9	375.7	375.6	375.4	375.5	375.8	376.2	376.6	376.9
167.5°	380.0	379.6	379.4	379.3	379.1	378.9	379.0	379.4	379.8	380.1	380.5
170°	381.9	381.4	381.3	381.2	381.0	380.9	381.0	381.4	381.8	382.1	382.5
172.5°	383.1	382.7	382.6	382.5	382.4	382.2	382.4	382.7	383.1	383.5	383.8
175°	384.6	384.2	384.1	383.9	383.8	383.7	383.8	384.3	384.7	385.1	385.6
177.5°	384.9	384.5	384.4	384.4	384.4	384.4	384.4	384.8	385.1	385.5	385.8
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	511.6	512.4	514.9	517.4	520.2	521.0	522.2	521.2	520.8	523.7	526.0
5°	513.1	516.5	523.4	529.7	534.9	538.6	542.6	544.2	547.1	551.1	556.3
7.5°	511.3	518.2	529.0	538.1	548.0	555.2	560.8	565.6	571.4	579.1	587.6
10°	509.5	518.7	531.8	542.9	555.1	564.3	571.9	579.4	588.0	598.7	609.8
12.5°	506.1	516.9	533.4	546.6	562.1	571.2	581.4	597.4	606.7	621.7	637.4
15°	499.1	511.3	534.2	550.4	568.0	585.2	604.2	619.4	634.6	643.5	665.6
17.5°	488.9	506.6	532.0	551.0	573.3	600.4	621.7	639.0	656.6	670.9	682.0
20°	480.5	499.9	528.9	551.6	578.2	607.3	631.7	649.4	664.6	676.6	683.4
22.5°	470.1	494.5	522.6	549.2	583.2	612.0	637.7	651.5	664.3	670.1	672.8
25°	453.6	482.9	514.8	547.3	585.6	616.1	639.6	648.0	651.7	646.0	636.6
27.5°	435.8	468.5	505.8	543.5	584.1	613.5	630.3	629.0	622.7	604.2	589.6
30°	422.5	458.5	498.5	539.8	580.5	609.1	618.8	609.1	594.8	574.3	553.3
32.5°	408.5	445.8	490.9	534.5	573.9	599.1	601.2	584.4	562.2	538.9	512.8
35°	387.4	427.7	476.5	522.6	560.0	575.8	566.5	536.7	510.5	478.6	443.0
37.5°	363.6	408.1	456.9	505.2	539.1	543.2	519.9	488.6	451.6	414.1	372.2
40°	345.8	393.0	443.2	491.9	521.9	517.5	487.8	453.4	409.4	363.6	324.7
42.5°	329.8	376.9	428.2	476.0	499.9	488.1	453.4	411.1	363.9	320.7	285.1
45°	302.2	350.7	403.1	449.3	463.0	441.6	395.7	348.7	302.2	266.2	238.1
47.5°	275.3	323.3	375.2	415.8	420.6	391.9	341.7	293.4	253.4	224.1	204.2
50°	255.6	303.8	355.2	391.4	389.8	355.2	303.6	257.6	224.1	200.4	187.2
52.5°	238.0	283.4	332.8	365.8	357.4	319.7	270.4	229.5	202.1	183.6	171.5
55°	210.4	252.5	299.5	325.9	310.6	268.7	227.0	194.2	173.8	160.0	150.6
57.5°	183.1	222.6	262.8	279.1	262.2	223.5	188.8	165.0	149.6	139.4	133.3
60°	166.3	200.7	236.4	250.6	230.4	196.0	168.6	147.3	134.9	126.6	121.1
62.5°	149.4	180.2	214.0	221.6	203.2	174.1	149.8	132.1	122.0	114.5	109.3
65°	126.3	151.6	177.2	182.3	165.3	142.8	123.6	112.1	103.1	97.6	93.5
67.5°	103.7	123.9	142.1	146.1	131.2	115.6	101.8	91.7	85.7	81.1	77.6
70°	90.1	106.2	121.1	124.4	112.4	98.6	88.0	80.0	74.5	70.6	67.2
72.5°	75.9	89.3	101.7	103.9	94.2	83.5	74.9	68.5	63.7	61.2	58.0
75°	58.1	66.0	75.5	76.1	69.7	63.2	56.6	52.4	49.9	46.8	45.2
77.5°	41.0	47.1	52.6	53.6	49.9	45.5	41.8	38.5	36.3	34.9	33.4
80°	31.3	36.2	38.6	39.9	37.2	34.0	31.9	29.7	28.3	27.4	26.4
82.5°	22.4	25.4	27.6	28.7	27.1	25.2	23.2	21.9	20.8	20.1	19.7
85°	11.4	12.7	14.1	14.5	14.1	13.3	12.1	12.1	11.5	11.4	11.4
87.5°	4.1	4.9	5.0	5.6	5.4	5.5	5.6	5.5	5.5	5.4	5.3
90°	0.9	1.6	2.3	3.0	3.6	4.0	4.6	5.1	5.6	5.9	6.2
92.5°	5.6	5.5	5.4	5.3	5.5	5.7	5.9	6.2	6.5	6.6	6.8
95°	16.0	14.0	12.0	9.9	9.1	9.6	10.0	10.4	10.8	11.2	11.5
97.5°	30.1	24.4	18.7	12.9	10.5	11.5	12.5	13.5	14.6	14.8	15.1
100°	40.8	32.3	23.8	15.4	11.6	12.7	13.8	14.8	15.8	16.4	16.9
102.5°	62.2	60.4	58.6	56.8	51.5	42.7	33.9	25.1	16.3	17.0	17.6
105°	86.4	88.3	90.2	92.0	84.6	67.7	50.8	33.8	17.0	17.7	18.3
107.5°	109.7	111.2	112.7	114.2	104.8	84.6	64.3	44.0	23.8	23.1	22.4
110°	124.6	126.0	127.3	128.5	120.2	102.4	84.5	66.6	48.7	42.5	36.3



TEST NUMBER: P331240-935

CATALOG NUMBER: SA2XXDIP-C290D330U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	138.7	139.9	141.0	142.2	140.5	136.1	131.7	127.3	122.9	100.3	77.7
115°	161.1	162.2	163.2	164.3	165.6	167.1	168.7	170.2	171.8	143.1	114.5
117.5°	181.3	182.5	183.7	184.9	186.0	187.1	188.1	189.2	190.3	183.3	176.4
120°	195.8	196.7	197.7	198.5	199.6	200.7	201.8	202.9	204.1	204.8	205.5
122.5°	208.4	209.3	210.3	211.3	212.3	213.5	214.7	216.0	217.2	217.7	218.1
125°	227.1	227.9	228.8	229.5	230.6	231.7	232.9	234.0	235.2	235.7	236.1
127.5°	244.4	245.3	246.2	247.1	248.0	248.8	249.8	250.6	251.5	252.1	252.8
130°	255.5	256.4	257.4	258.4	259.2	259.9	260.6	261.3	262.0	262.6	263.3
132.5°	266.4	267.3	268.1	269.0	269.7	270.4	271.0	271.7	272.4	273.0	273.6
135°	281.0	282.1	283.0	284.0	284.8	285.3	285.9	286.5	287.1	287.7	288.3
137.5°	295.4	296.1	296.8	297.5	298.2	298.8	299.4	300.1	300.7	301.3	301.9
140°	304.8	305.2	305.7	306.3	306.9	307.5	308.2	308.9	309.5	310.1	310.6
142.5°	312.7	313.1	313.7	314.1	314.7	315.5	316.2	317.0	317.8	318.3	318.8
145°	324.9	324.8	324.7	324.6	325.1	326.1	327.3	328.3	329.3	329.8	330.2
147.5°	335.6	335.4	335.1	334.9	335.3	336.3	337.4	338.5	339.5	339.8	340.1
150°	342.5	342.1	341.6	341.2	341.6	342.5	343.5	344.5	345.5	345.9	346.2
152.5°	348.5	348.0	347.5	347.1	347.2	348.2	349.1	350.1	351.0	351.4	351.8
155°	357.1	356.6	356.0	355.5	355.6	356.4	357.1	357.8	358.5	359.0	359.3
157.5°	364.1	363.6	363.2	362.7	362.7	363.3	363.8	364.3	364.8	365.2	365.7
160°	368.2	367.8	367.5	367.1	367.1	367.5	367.8	368.2	368.6	368.9	369.4
162.5°	371.8	371.4	371.0	370.7	370.7	370.9	371.3	371.6	372.0	372.4	372.7
165°	376.6	376.2	375.8	375.5	375.4	375.6	375.7	375.9	376.1	376.5	376.9
167.5°	380.1	379.8	379.4	379.0	378.9	379.1	379.3	379.4	379.6	380.0	380.5
170°	382.1	381.8	381.4	381.0	380.9	381.0	381.2	381.3	381.4	381.9	382.3
172.5°	383.5	383.1	382.7	382.4	382.2	382.4	382.5	382.6	382.7	383.1	383.6
175°	385.1	384.7	384.3	383.8	383.7	383.8	383.9	384.1	384.2	384.6	385.0
177.5°	385.5	385.1	384.8	384.4	384.4	384.4	384.4	384.4	384.5	384.9	385.2
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7	384.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	527.9	530.0	530.0	530.4	532.9	532.5	532.4
5°	561.7	565.1	565.4	568.9	571.3	570.5	568.3
7.5°	593.7	599.9	604.6	607.2	610.3	612.2	611.3
10°	619.1	628.0	633.5	637.2	641.7	645.1	643.9
12.5°	642.0	652.7	660.3	666.7	667.2	671.5	668.6
15°	678.0	689.2	690.4	695.1	698.9	698.4	698.6
17.5°	689.7	693.4	694.1	694.2	694.3	692.9	689.9
20°	685.5	684.2	680.9	678.3	673.8	673.2	669.3
22.5°	665.5	661.2	652.8	647.3	640.3	638.5	637.4
25°	626.1	616.5	603.2	590.5	586.9	580.1	582.0
27.5°	572.0	557.1	542.6	532.4	523.0	512.7	515.7
30°	534.0	517.1	496.8	481.1	471.1	461.4	459.6
32.5°	488.6	463.9	441.3	427.5	412.2	406.0	399.2
35°	410.4	386.2	363.8	344.4	333.3	324.7	316.8
37.5°	340.0	312.3	294.1	278.4	270.4	265.4	266.7
40°	296.4	272.1	258.7	246.8	239.4	235.9	236.7
42.5°	261.0	242.8	231.9	223.7	218.4	216.5	216.0
45°	220.8	210.7	201.6	197.0	194.4	192.3	190.9
47.5°	193.5	185.1	180.0	177.3	175.0	172.9	172.8
50°	177.0	171.5	168.0	165.1	163.3	161.8	163.2
52.5°	164.5	159.5	155.9	153.3	152.7	151.3	151.2
55°	145.9	142.0	139.5	137.1	136.0	135.2	134.1
57.5°	129.0	125.3	123.0	121.5	119.2	118.5	118.1
60°	116.9	114.0	111.7	109.7	108.7	107.2	107.2
62.5°	105.8	102.9	100.7	99.3	97.6	97.0	97.2
65°	89.8	87.4	85.2	83.7	83.3	82.1	82.6
67.5°	75.0	73.4	71.1	70.3	69.6	69.0	68.4
70°	65.1	63.5	62.4	61.2	60.6	60.6	60.6
72.5°	56.8	54.9	54.2	52.8	53.1	52.5	51.8
75°	44.0	42.8	42.3	41.7	40.7	40.7	40.7
77.5°	32.4	32.0	31.3	30.7	30.5	30.3	30.4
80°	25.1	24.8	24.5	24.5	24.0	23.8	23.5
82.5°	19.3	18.8	18.5	18.3	18.3	18.3	18.2
85°	10.9	10.6	10.6	10.8	10.3	10.3	10.6
87.5°	5.5	5.6	5.5	5.5	5.7	5.5	5.6
90°	6.5	6.8	7.1	7.1	7.2	7.4	7.5
92.5°	7.0	7.1	7.2	7.3	7.4	7.4	7.5
95°	11.8	12.1	12.2	12.1	12.1	12.1	12.0
97.5°	15.2	15.5	15.7	15.8	15.8	15.9	16.0
100°	17.4	17.8	18.2	18.3	18.4	18.5	18.7
102.5°	18.3	18.9	19.3	19.5	19.6	19.8	20.0
105°	19.0	19.7	20.1	20.4	20.7	20.9	21.2
107.5°	21.7	21.0	20.8	21.0	21.3	21.5	21.8
110°	30.1	23.9	21.0	21.3	21.5	21.8	22.0



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	55.2	32.6	21.4	21.6	21.8	22.0	22.2
115°	85.8	57.2	40.6	36.2	31.8	27.3	22.8
117.5°	169.4	162.6	151.8	137.2	122.5	107.9	93.2
120°	206.3	207.0	203.2	194.8	186.5	178.1	169.8
122.5°	218.5	219.0	218.3	216.8	215.2	213.5	211.9
125°	236.5	236.9	237.3	237.5	237.6	237.8	238.0
127.5°	253.4	254.0	254.3	254.4	254.4	254.4	254.5
130°	264.0	264.7	265.0	264.9	264.8	264.8	264.8
132.5°	274.1	274.7	275.0	274.9	274.9	274.8	274.7
135°	288.9	289.5	289.7	289.6	289.5	289.4	289.2
137.5°	302.5	303.1	303.2	303.1	302.9	302.6	302.5
140°	311.3	311.8	311.9	311.6	311.3	311.0	310.6
142.5°	319.3	319.9	319.9	319.6	319.3	319.0	318.7
145°	330.6	331.1	331.1	330.8	330.5	330.2	329.8
147.5°	340.4	340.8	340.8	340.5	340.3	340.0	339.8
150°	346.6	347.0	347.0	346.7	346.4	346.0	345.8
152.5°	352.1	352.5	352.5	352.1	351.7	351.3	350.9
155°	359.6	360.1	360.0	359.5	359.0	358.5	358.0
157.5°	366.1	366.4	366.4	365.9	365.5	365.0	364.5
160°	369.7	370.1	370.1	369.6	369.2	368.8	368.3
162.5°	373.2	373.6	373.6	373.0	372.5	372.0	371.4
165°	377.4	377.8	377.8	377.4	376.9	376.5	376.1
167.5°	380.9	381.3	381.3	380.7	380.1	379.6	379.0
170°	382.7	383.1	383.1	382.5	381.9	381.4	380.8
172.5°	384.0	384.4	384.4	383.8	383.3	382.7	382.2
175°	385.5	385.9	385.8	385.2	384.6	383.9	383.3
177.5°	385.6	385.9	385.8	385.4	385.0	384.5	384.1
180°	384.7	384.7	384.7	384.7	384.7	384.7	384.7

(END OF REPORT)