

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: P331250-930

Luminaire Tested: **SA2XXDIP-C290D530U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331250-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

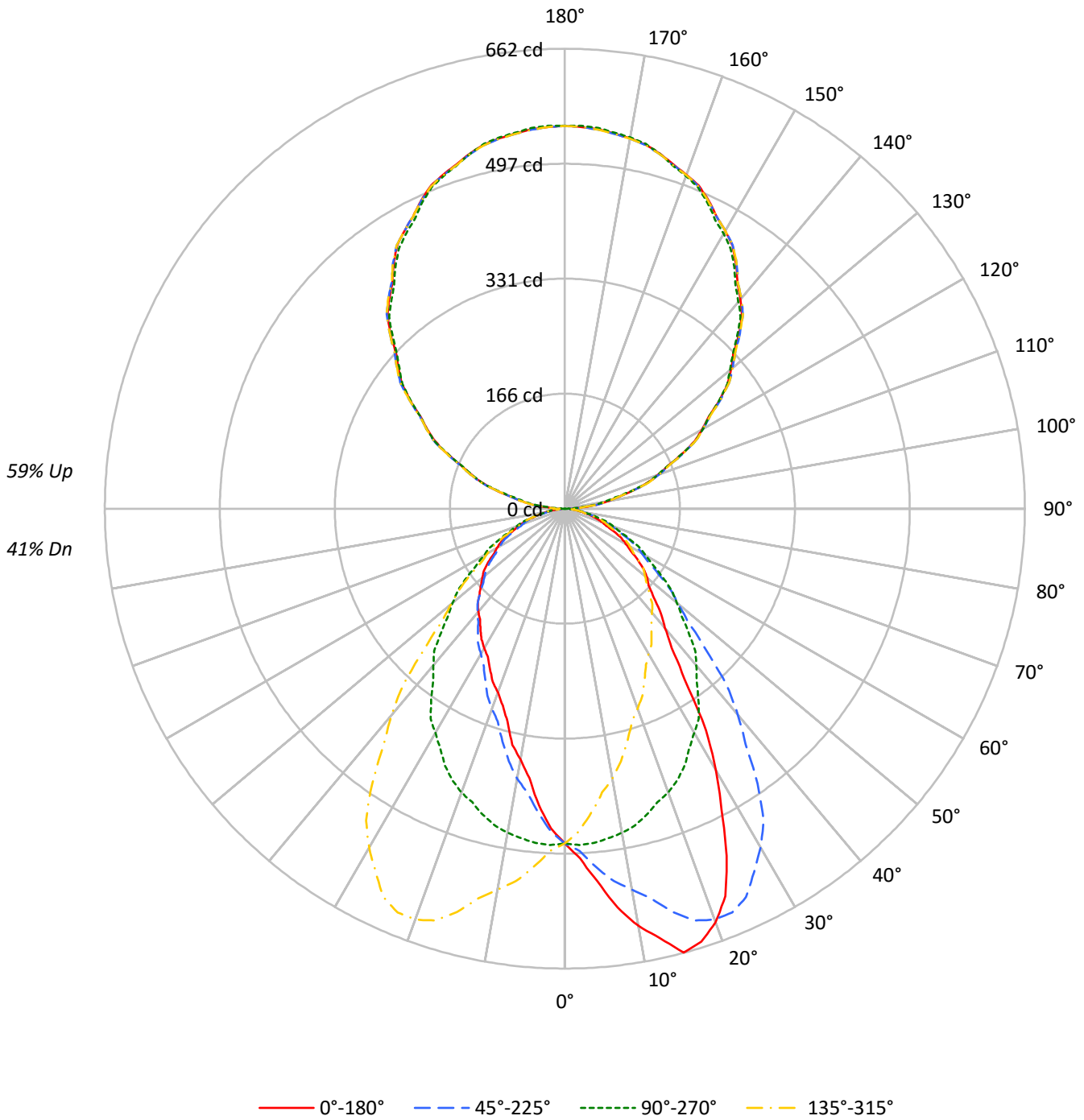
Lumens per Lamp: N/A
Luminaire Lumens: 2605.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 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	96	96	96	96	78	78	78	62	62	62	48	48	48	41				
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35				
2	88	81	75	70	80	74	69	65	61	57	54	49	47	45	38	37	35	30				
3	80	71	64	59	73	65	59	54	54	50	46	44	41	38	34	32	30	26				
4	74	63	56	50	67	58	52	46	48	43	40	39	36	33	31	28	26	23				
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23	20				
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	25	23	21	18				
7	58	46	38	33	53	42	36	31	36	30	27	29	25	23	23	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	21	19	17	14				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7781	7781	7781	7781
5°	8723	7831	6940	7831
10°	9996	7768	6005	7768
15°	11057	7626	5307	7626
20°	10890	7472	4837	7472
25°	9818	7269	4541	7269
30°	8114	6943	4323	6943
35°	5913	6603	4169	6603
40°	4723	6203	4083	6203
45°	4128	5740	3966	5740
50°	3881	5290	3888	5290
55°	3575	4833	3783	4833
60°	3278	4346	3626	4346
65°	2988	3912	3465	3912
70°	2710	3489	3238	3489
75°	2408	3013	2863	3013
80°	2073	2492	2306	2492
85°	1853	1853	1371	1853



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.8
10°-20°	133.4	5.1
20°-30°	193.6	7.4
30°-40°	204.3	7.8
40°-50°	180.9	6.9
50°-60°	144.4	5.5
60°-70°	98.1	3.8
70°-80°	50.3	1.9
80°-90°	14.3	0.6
90°-100°	34.9	1.3
100°-110°	108.4	4.2
110°-120°	185.3	7.1
120°-130°	243.7	9.4
130°-140°	273.5	10.5
140°-150°	268.2	10.3
150°-160°	225.0	8.6
160°-170°	149.2	5.7
170°-180°	52.2	2.0
0°-30°	373.0	14.3
0°-40°	577.3	22.2
0°-60°	902.6	34.6
0°-90°	1065.4	40.9
90°-120°	328.7	12.6
90°-150°	1114.2	42.8
90°-180°	1540.0	59.1
0°-180°	2605.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	11
90°	16	0	16	0	16	7
95°	29	24	29	24	29	32
105°	103	100	103	100	103	109
115°	186	186	186	186	186	184
125°	272	271	272	271	272	242
135°	354	350	354	350	354	273
145°	430	425	430	425	430	268
155°	490	486	490	486	490	225
165°	529	529	529	529	529	149
175°	548	550	548	550	548	52
180°	551	551	551	551	551	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	7.0	7.0	7.1	6.9	6.9	7.1	7.1	7.0	7.2	7.4	7.1
90°	15.8	15.7	15.6	15.5	15.4	15.4	15.7	15.9	16.1	16.3	14.0
92.5°	15.1	15.1	15.0	15.0	15.0	14.9	14.9	14.8	14.8	14.8	14.3
95°	28.9	29.0	29.3	29.4	29.7	29.8	29.8	29.8	29.8	29.8	29.5
97.5°	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	49.7
100°	63.7	63.8	63.9	64.0	64.1	64.2	64.2	64.2	64.2	64.2	63.8
102.5°	79.3	79.4	79.5	79.7	79.7	79.7	79.7	79.6	79.5	79.4	79.0
105°	103.2	103.2	103.2	103.2	103.2	103.1	102.9	102.7	102.5	102.3	102.1
107.5°	125.7	126.2	126.7	127.1	127.6	127.8	127.8	127.7	127.6	127.5	127.5
110°	143.2	143.5	143.8	144.1	144.5	144.6	144.6	144.6	144.6	144.6	144.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	160.0	160.1	160.4	160.6	160.9	161.1	161.3	161.6	161.8	162.1	162.2
115°	186.0	186.3	186.6	186.9	187.2	187.4	187.5	187.6	187.8	187.8	188.0
117.5°	210.8	211.1	211.4	211.7	212.1	212.3	212.5	212.8	213.0	213.3	213.9
120°	228.3	228.6	228.9	229.2	229.5	229.7	229.7	229.7	229.7	229.7	230.5
122.5°	245.4	245.6	245.8	246.1	246.3	246.5	246.8	247.0	247.3	247.5	248.1
125°	271.5	271.6	271.7	271.8	271.9	272.1	272.5	272.7	273.0	273.4	273.7
127.5°	295.3	295.6	296.0	296.3	296.6	297.0	297.3	297.7	298.1	298.5	298.9
130°	312.4	312.8	313.2	313.6	314.1	314.4	314.6	314.8	315.0	315.2	315.4
132.5°	328.8	329.1	329.5	329.8	330.1	330.5	330.9	331.4	331.9	332.3	332.3
135°	354.2	354.6	354.9	355.2	355.5	355.7	355.8	356.0	356.0	356.1	356.0
137.5°	377.3	377.7	378.1	378.5	379.0	379.2	379.3	379.4	379.4	379.5	379.3
140°	393.3	393.7	394.1	394.5	395.0	395.2	395.2	395.2	395.2	395.2	394.7
142.5°	407.8	408.2	408.6	409.0	409.4	409.6	409.5	409.4	409.4	409.3	409.0
145°	429.6	430.0	430.4	430.8	431.2	431.4	431.3	431.2	431.0	431.0	430.4
147.5°	449.0	449.4	449.8	450.2	450.6	450.7	450.5	450.2	450.0	449.8	449.3
150°	461.7	461.9	462.3	462.6	462.9	462.9	462.6	462.3	461.9	461.7	461.2
152.5°	473.6	473.9	474.3	474.7	475.2	475.2	474.7	474.3	473.9	473.6	473.0
155°	489.6	489.8	490.2	490.5	490.8	490.7	490.2	489.7	489.2	488.6	488.3
157.5°	503.3	503.9	504.3	504.8	505.3	505.2	504.5	503.8	503.1	502.4	502.2
160°	511.8	512.3	512.7	513.1	513.6	513.4	512.8	512.2	511.6	510.9	510.9
162.5°	519.3	519.8	520.3	520.8	521.3	521.2	520.5	519.8	519.1	518.4	518.3
165°	529.0	529.6	530.1	530.6	531.2	531.0	530.4	529.6	528.9	528.2	528.2
167.5°	537.0	537.6	538.2	538.7	539.2	539.2	538.4	537.7	537.0	536.2	536.2
170°	541.2	541.8	542.4	543.0	543.6	543.6	542.9	542.2	541.4	540.7	540.8
172.5°	544.5	545.1	545.8	546.4	547.0	546.9	546.3	545.5	544.8	544.0	544.1
175°	548.1	548.8	549.3	550.0	550.7	550.6	549.8	549.1	548.4	547.6	547.9
177.5°	549.8	550.3	550.8	551.3	551.8	551.8	551.3	550.8	550.3	549.8	550.0
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	6.8	6.4	5.9	5.8	5.1	4.9	4.1	3.3	3.4	3.6	3.5
90°	11.7	9.5	7.2	5.5	4.2	2.9	1.7	0.5	1.7	2.9	4.2
92.5°	13.7	13.2	12.6	11.9	11.0	10.1	9.2	8.3	9.2	10.1	11.0
95°	29.4	29.1	28.9	28.3	27.3	26.3	25.2	24.2	25.2	26.3	27.3
97.5°	49.2	48.8	48.4	47.8	46.9	46.0	45.1	44.2	45.1	46.0	46.9
100°	63.5	63.3	62.9	62.4	61.6	60.7	59.8	59.0	59.8	60.7	61.6
102.5°	78.6	78.3	77.9	77.3	76.6	76.0	75.3	74.7	75.3	76.0	76.6
105°	101.8	101.7	101.4	101.2	100.9	100.6	100.3	100.0	100.3	100.6	100.9
107.5°	127.5	127.5	127.5	127.3	126.8	126.4	125.9	125.5	125.9	126.4	126.8
110°	144.6	144.6	144.6	144.3	143.7	143.0	142.4	141.8	142.4	143.0	143.7



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	162.2	162.3	162.4	162.2	161.5	160.9	160.3	159.6	160.3	160.9	161.5
115°	188.3	188.4	188.7	188.4	187.8	187.2	186.6	186.0	186.6	187.2	187.8
117.5°	214.4	215.1	215.6	215.5	214.7	213.9	213.0	212.2	213.0	213.9	214.7
120°	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7	230.5	231.3	232.1
122.5°	248.7	249.2	249.8	249.6	248.7	247.7	246.6	245.6	246.6	247.7	248.7
125°	274.0	274.3	274.6	274.3	273.4	272.5	271.5	270.6	271.5	272.5	273.4
127.5°	299.2	299.6	299.9	299.5	298.4	297.2	296.0	294.8	296.0	297.2	298.4
130°	315.6	315.8	316.0	315.4	314.1	312.7	311.4	310.1	311.4	312.7	314.1
132.5°	332.2	332.2	332.2	331.6	330.5	329.4	328.3	327.2	328.3	329.4	330.5
135°	355.7	355.5	355.3	354.7	353.5	352.4	351.2	350.1	351.2	352.4	353.5
137.5°	379.0	378.8	378.5	377.9	377.0	376.0	375.1	374.1	375.1	376.0	377.0
140°	394.1	393.6	393.1	392.4	391.4	390.5	389.6	388.7	389.6	390.5	391.4
142.5°	408.6	408.3	407.9	407.2	406.3	405.4	404.5	403.6	404.5	405.4	406.3
145°	429.7	429.1	428.5	427.9	427.1	426.4	425.7	424.9	425.7	426.4	427.1
147.5°	448.9	448.5	448.1	447.4	446.6	445.7	444.8	444.0	444.8	445.7	446.6
150°	460.8	460.4	460.0	459.5	458.9	458.3	457.6	457.1	457.6	458.3	458.9
152.5°	472.5	472.1	471.6	471.0	470.4	469.8	469.2	468.6	469.2	469.8	470.4
155°	488.0	487.7	487.4	487.1	486.7	486.5	486.2	485.8	486.2	486.5	486.7
157.5°	502.1	501.8	501.7	501.5	501.2	501.0	500.8	500.6	500.8	501.0	501.2
160°	510.7	510.6	510.5	510.4	510.1	510.0	509.7	509.6	509.7	510.0	510.1
162.5°	518.2	518.0	518.0	517.9	517.9	517.8	517.8	517.7	517.8	517.8	517.9
165°	528.2	528.2	528.2	528.2	528.3	528.4	528.5	528.6	528.5	528.4	528.3
167.5°	536.3	536.3	536.3	536.5	536.8	537.1	537.4	537.7	537.4	537.1	536.8
170°	540.9	541.0	541.1	541.4	541.6	541.9	542.3	542.6	542.3	541.9	541.6
172.5°	544.3	544.4	544.5	544.7	544.9	545.3	545.6	545.9	545.6	545.3	544.9
175°	548.1	548.3	548.5	548.8	549.1	549.3	549.7	550.0	549.7	549.3	549.1
177.5°	550.2	550.3	550.5	550.7	550.9	551.1	551.4	551.7	551.4	551.1	550.9
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	3.6	3.8	4.1	4.6	4.9	5.2	5.0	5.0	4.9	4.6	4.6
90°	5.5	7.2	9.5	11.7	14.0	16.3	16.1	15.9	15.7	15.4	15.4
92.5°	11.9	12.6	13.2	13.7	14.3	14.8	14.8	14.8	14.9	14.9	15.0
95°	28.3	28.9	29.1	29.4	29.5	29.8	29.8	29.8	29.8	29.8	29.7
97.5°	47.8	48.4	48.8	49.2	49.7	50.1	50.1	50.1	50.1	50.1	50.0
100°	62.4	62.9	63.3	63.5	63.8	64.2	64.2	64.2	64.2	64.2	64.1
102.5°	77.3	77.9	78.3	78.6	79.0	79.4	79.5	79.6	79.7	79.7	79.7
105°	101.2	101.4	101.7	101.8	102.1	102.3	102.5	102.7	102.9	103.1	103.2
107.5°	127.3	127.5	127.5	127.5	127.5	127.5	127.6	127.7	127.8	127.8	127.6
110°	144.3	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.5



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	162.2	162.4	162.3	162.2	162.2	162.1	161.8	161.6	161.3	161.1	160.9
115°	188.4	188.7	188.4	188.3	188.0	187.8	187.8	187.6	187.5	187.4	187.2
117.5°	215.5	215.6	215.1	214.4	213.9	213.3	213.0	212.8	212.5	212.3	212.1
120°	233.0	233.0	232.1	231.3	230.5	229.7	229.7	229.7	229.7	229.7	229.5
122.5°	249.6	249.8	249.2	248.7	248.1	247.5	247.3	247.0	246.8	246.5	246.3
125°	274.3	274.6	274.3	274.0	273.7	273.4	273.0	272.7	272.5	272.1	271.9
127.5°	299.5	299.9	299.6	299.2	298.9	298.5	298.1	297.7	297.3	297.0	296.6
130°	315.4	316.0	315.8	315.6	315.4	315.2	315.0	314.8	314.6	314.4	314.1
132.5°	331.6	332.2	332.2	332.2	332.3	332.3	331.9	331.4	330.9	330.5	330.1
135°	354.7	355.3	355.5	355.7	356.0	356.1	356.0	356.0	355.8	355.7	355.5
137.5°	377.9	378.5	378.8	379.0	379.3	379.5	379.4	379.4	379.3	379.2	379.0
140°	392.4	393.1	393.6	394.1	394.7	395.2	395.2	395.2	395.2	395.2	395.0
142.5°	407.2	407.9	408.3	408.6	409.0	409.3	409.4	409.4	409.5	409.6	409.4
145°	427.9	428.5	429.1	429.7	430.4	431.0	431.0	431.2	431.3	431.4	431.2
147.5°	447.4	448.1	448.5	448.9	449.3	449.8	450.0	450.2	450.5	450.7	450.6
150°	459.5	460.0	460.4	460.8	461.2	461.7	461.9	462.3	462.6	462.9	462.9
152.5°	471.0	471.6	472.1	472.5	473.0	473.6	473.9	474.3	474.7	475.2	475.2
155°	487.1	487.4	487.7	488.0	488.3	488.6	489.2	489.7	490.2	490.7	490.8
157.5°	501.5	501.7	501.8	502.1	502.2	502.4	503.1	503.8	504.5	505.2	505.3
160°	510.4	510.5	510.6	510.7	510.9	510.9	511.6	512.2	512.8	513.4	513.6
162.5°	517.9	518.0	518.0	518.2	518.3	518.4	519.1	519.8	520.5	521.2	521.3
165°	528.2	528.2	528.2	528.2	528.2	528.2	528.9	529.6	530.4	531.0	531.2
167.5°	536.5	536.3	536.3	536.3	536.2	536.2	537.0	537.7	538.4	539.2	539.2
170°	541.4	541.1	541.0	540.9	540.8	540.7	541.4	542.2	542.9	543.6	543.6
172.5°	544.7	544.5	544.4	544.3	544.1	544.0	544.8	545.5	546.3	546.9	547.0
175°	548.8	548.5	548.3	548.1	547.9	547.6	548.4	549.1	549.8	550.6	550.7
177.5°	550.7	550.5	550.3	550.2	550.0	549.8	550.3	550.8	551.3	551.8	551.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	4.6	4.5	4.5	4.3	4.5	4.5	4.6	4.6	4.6	4.9	5.0
90°	15.5	15.6	15.7	15.8	15.7	15.6	15.5	15.4	15.4	15.7	15.9
92.5°	15.0	15.0	15.1	15.1	15.1	15.0	15.0	15.0	14.9	14.9	14.8
95°	29.4	29.3	29.0	28.9	29.0	29.3	29.4	29.7	29.8	29.8	29.8
97.5°	50.0	50.0	50.0	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.1
100°	64.0	63.9	63.8	63.7	63.8	63.9	64.0	64.1	64.2	64.2	64.2
102.5°	79.7	79.5	79.4	79.3	79.4	79.5	79.7	79.7	79.7	79.7	79.6
105°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.1	102.9	102.7
107.5°	127.1	126.7	126.2	125.7	126.2	126.7	127.1	127.6	127.8	127.8	127.7
110°	144.1	143.8	143.5	143.2	143.5	143.8	144.1	144.5	144.6	144.6	144.6



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	160.6	160.4	160.1	160.0	160.1	160.4	160.6	160.9	161.1	161.3	161.6
115°	186.9	186.6	186.3	186.0	186.3	186.6	186.9	187.2	187.4	187.5	187.6
117.5°	211.7	211.4	211.1	210.8	211.1	211.4	211.7	212.1	212.3	212.5	212.8
120°	229.2	228.9	228.6	228.3	228.6	228.9	229.2	229.5	229.7	229.7	229.7
122.5°	246.1	245.8	245.6	245.4	245.6	245.8	246.1	246.3	246.5	246.8	247.0
125°	271.8	271.7	271.6	271.5	271.6	271.7	271.8	271.9	272.1	272.5	272.7
127.5°	296.3	296.0	295.6	295.3	295.6	296.0	296.3	296.6	297.0	297.3	297.7
130°	313.6	313.2	312.8	312.4	312.8	313.2	313.6	314.1	314.4	314.6	314.8
132.5°	329.8	329.5	329.1	328.8	329.1	329.5	329.8	330.1	330.5	330.9	331.4
135°	355.2	354.9	354.6	354.2	354.6	354.9	355.2	355.5	355.7	355.8	356.0
137.5°	378.5	378.1	377.7	377.3	377.7	378.1	378.5	379.0	379.2	379.3	379.4
140°	394.5	394.1	393.7	393.3	393.7	394.1	394.5	395.0	395.2	395.2	395.2
142.5°	409.0	408.6	408.2	407.8	408.2	408.6	409.0	409.4	409.6	409.5	409.4
145°	430.8	430.4	430.0	429.6	430.0	430.4	430.8	431.2	431.4	431.3	431.2
147.5°	450.2	449.8	449.4	449.0	449.4	449.8	450.2	450.6	450.7	450.5	450.2
150°	462.6	462.3	461.9	461.7	461.9	462.3	462.6	462.9	462.9	462.6	462.3
152.5°	474.7	474.3	473.9	473.6	473.9	474.3	474.7	475.2	475.2	474.7	474.3
155°	490.5	490.2	489.8	489.6	489.8	490.2	490.5	490.8	490.7	490.2	489.7
157.5°	504.8	504.3	503.9	503.3	503.9	504.3	504.8	505.3	505.2	504.5	503.8
160°	513.1	512.7	512.3	511.8	512.3	512.7	513.1	513.6	513.4	512.8	512.2
162.5°	520.8	520.3	519.8	519.3	519.8	520.3	520.8	521.3	521.2	520.5	519.8
165°	530.6	530.1	529.6	529.0	529.6	530.1	530.6	531.2	531.0	530.4	529.6
167.5°	538.7	538.2	537.6	537.0	537.6	538.2	538.7	539.2	539.2	538.4	537.7
170°	543.0	542.4	541.8	541.2	541.8	542.4	543.0	543.6	543.6	542.9	542.2
172.5°	546.4	545.8	545.1	544.5	545.1	545.8	546.4	547.0	546.9	546.3	545.5
175°	550.0	549.3	548.8	548.1	548.8	549.3	550.0	550.7	550.6	549.8	549.1
177.5°	551.3	550.8	550.3	549.8	550.3	550.8	551.3	551.8	551.8	551.3	550.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331250-930
 CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	5.0	5.2	4.9	4.6	4.1	3.8	3.6	3.5	3.6	3.4	3.3
90°	16.1	16.3	14.0	11.7	9.5	7.2	5.5	4.2	2.9	1.7	0.5
92.5°	14.8	14.8	14.3	13.7	13.2	12.6	11.9	11.0	10.1	9.2	8.3
95°	29.8	29.8	29.5	29.4	29.1	28.9	28.3	27.3	26.3	25.2	24.2
97.5°	50.1	50.1	49.7	49.2	48.8	48.4	47.8	46.9	46.0	45.1	44.2
100°	64.2	64.2	63.8	63.5	63.3	62.9	62.4	61.6	60.7	59.8	59.0
102.5°	79.5	79.4	79.0	78.6	78.3	77.9	77.3	76.6	76.0	75.3	74.7
105°	102.5	102.3	102.1	101.8	101.7	101.4	101.2	100.9	100.6	100.3	100.0
107.5°	127.6	127.5	127.5	127.5	127.5	127.5	127.3	126.8	126.4	125.9	125.5
110°	144.6	144.6	144.6	144.6	144.6	144.6	144.3	143.7	143.0	142.4	141.8



TEST NUMBER: P331250-930
 CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	161.8	162.1	162.2	162.2	162.3	162.4	162.2	161.5	160.9	160.3	159.6
115°	187.8	187.8	188.0	188.3	188.4	188.7	188.4	187.8	187.2	186.6	186.0
117.5°	213.0	213.3	213.9	214.4	215.1	215.6	215.5	214.7	213.9	213.0	212.2
120°	229.7	229.7	230.5	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7
122.5°	247.3	247.5	248.1	248.7	249.2	249.8	249.6	248.7	247.7	246.6	245.6
125°	273.0	273.4	273.7	274.0	274.3	274.6	274.3	273.4	272.5	271.5	270.6
127.5°	298.1	298.5	298.9	299.2	299.6	299.9	299.5	298.4	297.2	296.0	294.8
130°	315.0	315.2	315.4	315.6	315.8	316.0	315.4	314.1	312.7	311.4	310.1
132.5°	331.9	332.3	332.3	332.2	332.2	332.2	331.6	330.5	329.4	328.3	327.2
135°	356.0	356.1	356.0	355.7	355.5	355.3	354.7	353.5	352.4	351.2	350.1
137.5°	379.4	379.5	379.3	379.0	378.8	378.5	377.9	377.0	376.0	375.1	374.1
140°	395.2	395.2	394.7	394.1	393.6	393.1	392.4	391.4	390.5	389.6	388.7
142.5°	409.4	409.3	409.0	408.6	408.3	407.9	407.2	406.3	405.4	404.5	403.6
145°	431.0	431.0	430.4	429.7	429.1	428.5	427.9	427.1	426.4	425.7	424.9
147.5°	450.0	449.8	449.3	448.9	448.5	448.1	447.4	446.6	445.7	444.8	444.0
150°	461.9	461.7	461.2	460.8	460.4	460.0	459.5	458.9	458.3	457.6	457.1
152.5°	473.9	473.6	473.0	472.5	472.1	471.6	471.0	470.4	469.8	469.2	468.6
155°	489.2	488.6	488.3	488.0	487.7	487.4	487.1	486.7	486.5	486.2	485.8
157.5°	503.1	502.4	502.2	502.1	501.8	501.7	501.5	501.2	501.0	500.8	500.6
160°	511.6	510.9	510.9	510.7	510.6	510.5	510.4	510.1	510.0	509.7	509.6
162.5°	519.1	518.4	518.3	518.2	518.0	518.0	517.9	517.9	517.8	517.8	517.7
165°	528.9	528.2	528.2	528.2	528.2	528.2	528.2	528.3	528.4	528.5	528.6
167.5°	537.0	536.2	536.2	536.3	536.3	536.3	536.5	536.8	537.1	537.4	537.7
170°	541.4	540.7	540.8	540.9	541.0	541.1	541.4	541.6	541.9	542.3	542.6
172.5°	544.8	544.0	544.1	544.3	544.4	544.5	544.7	544.9	545.3	545.6	545.9
175°	548.4	547.6	547.9	548.1	548.3	548.5	548.8	549.1	549.3	549.7	550.0
177.5°	550.3	549.8	550.0	550.2	550.3	550.5	550.7	550.9	551.1	551.4	551.7
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	4.1	4.9	5.1	5.8	5.9	6.4	6.8	7.1	7.4	7.2	7.0
90°	1.7	2.9	4.2	5.5	7.2	9.5	11.7	14.0	16.3	16.1	15.9
92.5°	9.2	10.1	11.0	11.9	12.6	13.2	13.7	14.3	14.8	14.8	14.8
95°	25.2	26.3	27.3	28.3	28.9	29.1	29.4	29.5	29.8	29.8	29.8
97.5°	45.1	46.0	46.9	47.8	48.4	48.8	49.2	49.7	50.1	50.1	50.1
100°	59.8	60.7	61.6	62.4	62.9	63.3	63.5	63.8	64.2	64.2	64.2
102.5°	75.3	76.0	76.6	77.3	77.9	78.3	78.6	79.0	79.4	79.5	79.6
105°	100.3	100.6	100.9	101.2	101.4	101.7	101.8	102.1	102.3	102.5	102.7
107.5°	125.9	126.4	126.8	127.3	127.5	127.5	127.5	127.5	127.5	127.6	127.7
110°	142.4	143.0	143.7	144.3	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P331250-930

CATALOG NUMBER: SA2XXDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	160.3	160.9	161.5	162.2	162.4	162.3	162.2	162.2	162.1	161.8	161.6
115°	186.6	187.2	187.8	188.4	188.7	188.4	188.3	188.0	187.8	187.8	187.6
117.5°	213.0	213.9	214.7	215.5	215.6	215.1	214.4	213.9	213.3	213.0	212.8
120°	230.5	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7	229.7	229.7
122.5°	246.6	247.7	248.7	249.6	249.8	249.2	248.7	248.1	247.5	247.3	247.0
125°	271.5	272.5	273.4	274.3	274.6	274.3	274.0	273.7	273.4	273.0	272.7
127.5°	296.0	297.2	298.4	299.5	299.9	299.6	299.2	298.9	298.5	298.1	297.7
130°	311.4	312.7	314.1	315.4	316.0	315.8	315.6	315.4	315.2	315.0	314.8
132.5°	328.3	329.4	330.5	331.6	332.2	332.2	332.2	332.3	332.3	331.9	331.4
135°	351.2	352.4	353.5	354.7	355.3	355.5	355.7	356.0	356.1	356.0	356.0
137.5°	375.1	376.0	377.0	377.9	378.5	378.8	379.0	379.3	379.5	379.4	379.4
140°	389.6	390.5	391.4	392.4	393.1	393.6	394.1	394.7	395.2	395.2	395.2
142.5°	404.5	405.4	406.3	407.2	407.9	408.3	408.6	409.0	409.3	409.4	409.4
145°	425.7	426.4	427.1	427.9	428.5	429.1	429.7	430.4	431.0	431.0	431.2
147.5°	444.8	445.7	446.6	447.4	448.1	448.5	448.9	449.3	449.8	450.0	450.2
150°	457.6	458.3	458.9	459.5	460.0	460.4	460.8	461.2	461.7	461.9	462.3
152.5°	469.2	469.8	470.4	471.0	471.6	472.1	472.5	473.0	473.6	473.9	474.3
155°	486.2	486.5	486.7	487.1	487.4	487.7	488.0	488.3	488.6	489.2	489.7
157.5°	500.8	501.0	501.2	501.5	501.7	501.8	502.1	502.2	502.4	503.1	503.8
160°	509.7	510.0	510.1	510.4	510.5	510.6	510.7	510.9	510.9	511.6	512.2
162.5°	517.8	517.8	517.9	517.9	518.0	518.0	518.2	518.3	518.4	519.1	519.8
165°	528.5	528.4	528.3	528.2	528.2	528.2	528.2	528.2	528.2	528.9	529.6
167.5°	537.4	537.1	536.8	536.5	536.3	536.3	536.3	536.2	536.2	537.0	537.7
170°	542.3	541.9	541.6	541.4	541.1	541.0	540.9	540.8	540.7	541.4	542.2
172.5°	545.6	545.3	544.9	544.7	544.5	544.4	544.3	544.1	544.0	544.8	545.5
175°	549.7	549.3	549.1	548.8	548.5	548.3	548.1	547.9	547.6	548.4	549.1
177.5°	551.4	551.1	550.9	550.7	550.5	550.3	550.2	550.0	549.8	550.3	550.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	7.1	7.1	6.9	6.9	7.1	7.0	7.0
90°	15.7	15.4	15.4	15.5	15.6	15.7	15.8
92.5°	14.9	14.9	15.0	15.0	15.0	15.1	15.1
95°	29.8	29.8	29.7	29.4	29.3	29.0	28.9
97.5°	50.1	50.1	50.0	50.0	50.0	50.0	49.9
100°	64.2	64.2	64.1	64.0	63.9	63.8	63.7
102.5°	79.7	79.7	79.7	79.7	79.5	79.4	79.3
105°	102.9	103.1	103.2	103.2	103.2	103.2	103.2
107.5°	127.8	127.8	127.6	127.1	126.7	126.2	125.7
110°	144.6	144.6	144.5	144.1	143.8	143.5	143.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	161.3	161.1	160.9	160.6	160.4	160.1	160.0
115°	187.5	187.4	187.2	186.9	186.6	186.3	186.0
117.5°	212.5	212.3	212.1	211.7	211.4	211.1	210.8
120°	229.7	229.7	229.5	229.2	228.9	228.6	228.3
122.5°	246.8	246.5	246.3	246.1	245.8	245.6	245.4
125°	272.5	272.1	271.9	271.8	271.7	271.6	271.5
127.5°	297.3	297.0	296.6	296.3	296.0	295.6	295.3
130°	314.6	314.4	314.1	313.6	313.2	312.8	312.4
132.5°	330.9	330.5	330.1	329.8	329.5	329.1	328.8
135°	355.8	355.7	355.5	355.2	354.9	354.6	354.2
137.5°	379.3	379.2	379.0	378.5	378.1	377.7	377.3
140°	395.2	395.2	395.0	394.5	394.1	393.7	393.3
142.5°	409.5	409.6	409.4	409.0	408.6	408.2	407.8
145°	431.3	431.4	431.2	430.8	430.4	430.0	429.6
147.5°	450.5	450.7	450.6	450.2	449.8	449.4	449.0
150°	462.6	462.9	462.9	462.6	462.3	461.9	461.7
152.5°	474.7	475.2	475.2	474.7	474.3	473.9	473.6
155°	490.2	490.7	490.8	490.5	490.2	489.8	489.6
157.5°	504.5	505.2	505.3	504.8	504.3	503.9	503.3
160°	512.8	513.4	513.6	513.1	512.7	512.3	511.8
162.5°	520.5	521.2	521.3	520.8	520.3	519.8	519.3
165°	530.4	531.0	531.2	530.6	530.1	529.6	529.0
167.5°	538.4	539.2	539.2	538.7	538.2	537.6	537.0
170°	542.9	543.6	543.6	543.0	542.4	541.8	541.2
172.5°	546.3	546.9	547.0	546.4	545.8	545.1	544.5
175°	549.8	550.6	550.7	550.0	549.3	548.8	548.1
177.5°	551.3	551.8	551.8	551.3	550.8	550.3	549.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9

(END OF REPORT)