

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: P331241

Luminaire Tested: **SA2XXDIP-C290D330U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331241
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-C290D330U835-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

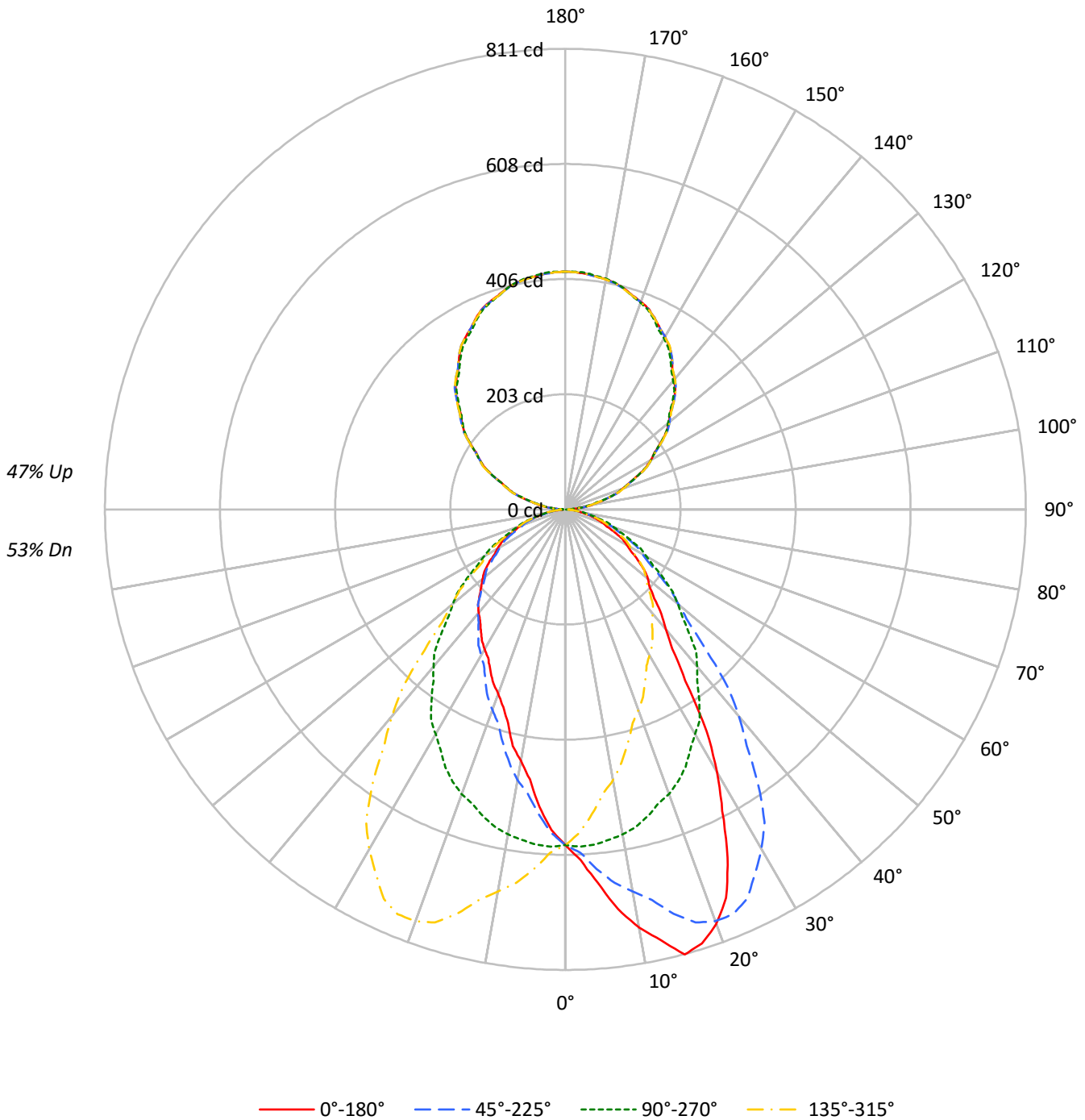
Lumens per Lamp: N/A
Luminaire Lumens: 2476.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	99	95	91	88	91	88	85	82	75	73	71	63	62	60	53	51	50	45
2	90	83	77	72	84	77	72	68	66	63	59	56	54	51	47	45	43	39
3	83	74	67	61	77	69	62	57	59	54	51	50	47	44	42	40	37	33
4	76	66	58	52	70	61	54	49	53	48	44	45	41	38	38	35	33	29
5	70	59	51	45	65	55	48	43	48	42	38	41	37	33	34	31	29	26
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	31	28	26	23
7	60	48	40	35	55	45	38	33	39	34	30	34	30	26	29	26	23	20
8	56	44	36	31	52	41	34	29	36	30	26	31	27	24	27	23	21	18
9	52	40	33	28	48	38	31	26	33	28	24	29	24	21	25	21	19	17
10	49	37	30	25	45	35	28	24	30	25	22	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	2.3
10°-20°	163.7	6.6
20°-30°	237.5	9.6
30°-40°	250.6	10.1
40°-50°	221.9	9.0
50°-60°	177.1	7.2
60°-70°	120.4	4.9
70°-80°	61.7	2.5
80°-90°	16.6	0.7
90°-100°	26.5	1.1
100°-110°	82.4	3.3
110°-120°	140.8	5.7
120°-130°	185.2	7.5
130°-140°	207.9	8.4
140°-150°	203.8	8.2
150°-160°	171.0	6.9
160°-170°	113.4	4.6
170°-180°	39.6	1.6
0°-30°	457.5	18.5
0°-40°	708.1	28.6
0°-60°	1107.1	44.7
0°-90°	1305.7	52.7
90°-120°	249.8	10.1
90°-150°	846.7	34.2
90°-180°	1171.0	47.3
0°-180°	2476.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	14
90°	12	0	12	0	12	6
95°	22	18	22	18	22	24
105°	78	76	78	76	78	82
115°	141	141	141	141	141	140
125°	206	206	206	206	206	184
135°	269	266	269	266	269	207
145°	326	323	326	323	326	204
155°	372	369	372	369	372	171
165°	402	402	402	402	402	113
175°	416	418	416	418	416	40
180°	419	419	419	419	419	



TEST NUMBER: P331241

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	7.1	7.1	7.3	7.1	7.1	7.3	7.3	7.1	7.3	7.6	7.4
90°	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1	12.2	12.4	10.6
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3	11.3	11.2	10.8
95°	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	37.7
100°	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8	48.8	48.8	48.5
102.5°	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5	60.4	60.3	60.0
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0	77.9	77.7	77.6
107.5°	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0	96.9	96.9	96.9
110°	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9	109.9	109.9	109.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8	123.0	123.2	123.2
115°	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6	142.7	142.7	142.9
117.5°	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7	161.9	162.1	162.5
120°	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5	174.5	174.5	175.2
122.5°	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7	187.9	188.1	188.5
125°	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3	207.5	207.7	208.0
127.5°	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3	226.5	226.8	227.1
130°	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2	239.4	239.5	239.7
132.5°	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8	252.2	252.5	252.5
135°	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5	270.5	270.6	270.5
137.5°	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3	288.4	288.4	288.2
140°	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3	300.3	300.3	299.9
142.5°	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2	311.1	311.0	310.8
145°	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7	327.6	327.5	327.0
147.5°	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1	342.0	341.8	341.5
150°	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3	351.1	350.8	350.5
152.5°	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5	360.2	359.9	359.5
155°	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1	371.7	371.3	371.1
157.5°	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8	382.3	381.8	381.6
160°	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2	388.7	388.3	388.2
162.5°	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0	394.5	393.9	393.9
165°	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4	401.9	401.3	401.3
167.5°	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6	408.0	407.5	407.5
170°	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0	411.4	410.9	411.0
172.5°	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5	414.0	413.4	413.5
175°	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3	416.7	416.2	416.3
177.5°	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6	418.2	417.8	417.9
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	7.2	6.9	6.5	6.6	5.9	5.7	4.8	4.1	4.1	4.1	3.9
90°	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4	1.3	2.2	3.2
92.5°	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3	7.0	7.7	8.4
95°	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4	19.2	19.9	20.7
97.5°	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6	34.3	34.9	35.6
100°	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9	45.5	46.1	46.8
102.5°	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7	57.2	57.7	58.2
105°	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0	76.2	76.4	76.7
107.5°	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3	95.7	96.0	96.4
110°	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8	108.2	108.7	109.2



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3	121.8	122.3	122.7
115°	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3	141.8	142.3	142.7
117.5°	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2	161.9	162.5	163.1
120°	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	175.2	175.8	176.4
122.5°	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7	187.4	188.2	188.9
125°	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6	206.3	207.0	207.7
127.5°	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1	225.0	225.9	226.7
130°	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7	236.7	237.7	238.7
132.5°	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7	249.5	250.3	251.1
135°	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0	266.9	267.8	268.6
137.5°	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3	285.0	285.7	286.5
140°	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4	296.1	296.8	297.5
142.5°	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7	307.4	308.1	308.8
145°	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9	323.5	324.0	324.6
147.5°	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4	338.1	338.7	339.4
150°	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3	347.8	348.2	348.7
152.5°	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1	356.5	357.0	357.5
155°	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2	369.4	369.7	369.9
157.5°	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4	380.6	380.7	380.9
160°	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2	387.4	387.5	387.7
162.5°	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4	393.5	393.5	393.5
165°	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7	401.6	401.5	401.5
167.5°	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6	408.4	408.2	407.9
170°	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3	412.1	411.8	411.6
172.5°	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8	414.6	414.4	414.1
175°	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0	417.7	417.5	417.2
177.5°	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2	419.0	418.8	418.7
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	3.9	4.0	4.2	4.5	4.7	4.8	4.6	4.6	4.6	4.2	4.2
90°	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1	11.9	11.7	11.7
92.5°	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3	11.3	11.4	11.4
95°	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6	22.6	22.6	22.5
97.5°	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0	38.0	38.0	38.0
100°	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8	48.8	48.8	48.7
102.5°	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5	60.5	60.6	60.6
105°	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0	78.2	78.4	78.4
107.5°	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0	97.1	97.1	97.0
110°	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.9	109.8



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8	122.6	122.4	122.2
115°	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6	142.5	142.4	142.3
117.5°	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7	161.5	161.3	161.1
120°	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5	174.5	174.5	174.4
122.5°	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7	187.5	187.3	187.2
125°	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3	207.0	206.8	206.6
127.5°	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3	226.0	225.7	225.4
130°	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2	239.1	238.9	238.7
132.5°	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8	251.5	251.2	250.9
135°	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5	270.4	270.3	270.2
137.5°	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3	288.2	288.2	288.0
140°	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3	300.3	300.3	300.1
142.5°	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2	311.2	311.3	311.2
145°	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7	327.7	327.8	327.7
147.5°	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1	342.3	342.5	342.4
150°	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3	351.5	351.8	351.8
152.5°	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5	360.8	361.1	361.1
155°	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1	372.5	372.9	373.0
157.5°	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8	383.4	383.9	384.0
160°	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2	389.7	390.2	390.2
162.5°	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0	395.5	396.1	396.1
165°	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4	403.0	403.5	403.6
167.5°	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6	409.1	409.7	409.8
170°	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0	412.5	413.1	413.1
172.5°	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5	415.1	415.6	415.7
175°	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3	417.8	418.4	418.4
177.5°	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6	418.9	419.3	419.3
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	4.2	4.0	4.0	3.9	4.0	4.0	4.2	4.2	4.2	4.6	4.6
90°	11.8	11.9	11.9	12.0	11.9	11.9	11.8	11.7	11.7	11.9	12.1
92.5°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.3	11.3
95°	22.4	22.2	22.1	21.9	22.1	22.2	22.4	22.5	22.6	22.6	22.6
97.5°	38.0	38.0	38.0	37.9	38.0	38.0	38.0	38.0	38.0	38.0	38.0
100°	48.6	48.6	48.5	48.4	48.5	48.6	48.6	48.7	48.8	48.8	48.8
102.5°	60.5	60.4	60.4	60.3	60.4	60.4	60.5	60.6	60.6	60.5	60.5
105°	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.2	78.0
107.5°	96.6	96.3	95.9	95.5	95.9	96.3	96.6	97.0	97.1	97.1	97.0
110°	109.5	109.3	109.1	108.8	109.1	109.3	109.5	109.8	109.9	109.9	109.9



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	122.1	121.9	121.7	121.5	121.7	121.9	122.1	122.2	122.4	122.6	122.8
115°	142.0	141.8	141.6	141.3	141.6	141.8	142.0	142.3	142.4	142.5	142.6
117.5°	160.9	160.7	160.4	160.2	160.4	160.7	160.9	161.1	161.3	161.5	161.7
120°	174.2	173.9	173.7	173.5	173.7	173.9	174.2	174.4	174.5	174.5	174.5
122.5°	187.0	186.8	186.6	186.5	186.6	186.8	187.0	187.2	187.3	187.5	187.7
125°	206.6	206.5	206.4	206.3	206.4	206.5	206.6	206.6	206.8	207.0	207.3
127.5°	225.2	224.9	224.7	224.4	224.7	224.9	225.2	225.4	225.7	226.0	226.3
130°	238.4	238.0	237.7	237.4	237.7	238.0	238.4	238.7	238.9	239.1	239.2
132.5°	250.6	250.4	250.1	249.9	250.1	250.4	250.6	250.9	251.2	251.5	251.8
135°	269.9	269.7	269.5	269.2	269.5	269.7	269.9	270.2	270.3	270.4	270.5
137.5°	287.7	287.4	287.1	286.7	287.1	287.4	287.7	288.0	288.2	288.2	288.3
140°	299.8	299.5	299.2	298.9	299.2	299.5	299.8	300.1	300.3	300.3	300.3
142.5°	310.9	310.5	310.2	309.9	310.2	310.5	310.9	311.2	311.3	311.2	311.2
145°	327.4	327.1	326.8	326.4	326.8	327.1	327.4	327.7	327.8	327.7	327.7
147.5°	342.1	341.8	341.5	341.2	341.5	341.8	342.1	342.4	342.5	342.3	342.1
150°	351.5	351.3	351.1	350.8	351.1	351.3	351.5	351.8	351.8	351.5	351.3
152.5°	360.8	360.5	360.2	359.9	360.2	360.5	360.8	361.1	361.1	360.8	360.5
155°	372.7	372.5	372.3	372.0	372.3	372.5	372.7	373.0	372.9	372.5	372.1
157.5°	383.6	383.2	382.9	382.5	382.9	383.2	383.6	384.0	383.9	383.4	382.8
160°	389.9	389.6	389.3	389.0	389.3	389.6	389.9	390.2	390.2	389.7	389.2
162.5°	395.8	395.4	395.0	394.6	395.0	395.4	395.8	396.1	396.1	395.5	395.0
165°	403.2	402.8	402.4	402.1	402.4	402.8	403.2	403.6	403.5	403.0	402.4
167.5°	409.4	408.9	408.5	408.1	408.5	408.9	409.4	409.8	409.7	409.1	408.6
170°	412.7	412.2	411.7	411.2	411.7	412.2	412.7	413.1	413.1	412.5	412.0
172.5°	415.2	414.7	414.3	413.8	414.3	414.7	415.2	415.7	415.6	415.1	414.5
175°	418.0	417.5	417.0	416.5	417.0	417.5	418.0	418.4	418.4	417.8	417.3
177.5°	418.9	418.6	418.2	417.8	418.2	418.6	418.9	419.3	419.3	418.9	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	4.6	4.8	4.7	4.5	4.2	4.0	3.9	3.9	4.1	4.1	4.1
90°	12.2	12.4	10.6	8.9	7.2	5.5	4.1	3.2	2.2	1.3	0.4
92.5°	11.3	11.2	10.8	10.4	10.0	9.6	9.1	8.4	7.7	7.0	6.3
95°	22.6	22.6	22.5	22.3	22.1	22.0	21.5	20.7	19.9	19.2	18.4
97.5°	38.0	38.0	37.7	37.4	37.1	36.8	36.3	35.6	34.9	34.3	33.6
100°	48.8	48.8	48.5	48.3	48.0	47.8	47.4	46.8	46.1	45.5	44.9
102.5°	60.4	60.3	60.0	59.7	59.4	59.2	58.7	58.2	57.7	57.2	56.7
105°	77.9	77.7	77.6	77.4	77.3	77.1	76.9	76.7	76.4	76.2	76.0
107.5°	96.9	96.9	96.9	96.9	96.9	96.9	96.7	96.4	96.0	95.7	95.3
110°	109.9	109.9	109.9	109.9	109.9	109.9	109.6	109.2	108.7	108.2	107.8



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	123.0	123.2	123.2	123.3	123.3	123.4	123.2	122.7	122.3	121.8	121.3
115°	142.7	142.7	142.9	143.0	143.2	143.4	143.2	142.7	142.3	141.8	141.3
117.5°	161.9	162.1	162.5	163.0	163.4	163.9	163.8	163.1	162.5	161.9	161.2
120°	174.5	174.5	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5
122.5°	187.9	188.1	188.5	189.0	189.4	189.9	189.7	188.9	188.2	187.4	186.7
125°	207.5	207.7	208.0	208.2	208.4	208.7	208.4	207.7	207.0	206.3	205.6
127.5°	226.5	226.8	227.1	227.4	227.7	227.9	227.6	226.7	225.9	225.0	224.1
130°	239.4	239.5	239.7	239.9	240.0	240.2	239.7	238.7	237.7	236.7	235.7
132.5°	252.2	252.5	252.5	252.5	252.4	252.4	252.0	251.1	250.3	249.5	248.7
135°	270.5	270.6	270.5	270.3	270.2	270.0	269.5	268.6	267.8	266.9	266.0
137.5°	288.4	288.4	288.2	288.0	287.8	287.6	287.2	286.5	285.7	285.0	284.3
140°	300.3	300.3	299.9	299.5	299.1	298.7	298.2	297.5	296.8	296.1	295.4
142.5°	311.1	311.0	310.8	310.5	310.2	310.0	309.5	308.8	308.1	307.4	306.7
145°	327.6	327.5	327.0	326.6	326.1	325.6	325.1	324.6	324.0	323.5	322.9
147.5°	342.0	341.8	341.5	341.2	340.8	340.5	340.0	339.4	338.7	338.1	337.4
150°	351.1	350.8	350.5	350.2	349.9	349.6	349.2	348.7	348.2	347.8	347.3
152.5°	360.2	359.9	359.5	359.1	358.7	358.4	357.9	357.5	357.0	356.5	356.1
155°	371.7	371.3	371.1	370.8	370.6	370.4	370.1	369.9	369.7	369.4	369.2
157.5°	382.3	381.8	381.6	381.5	381.4	381.2	381.1	380.9	380.7	380.6	380.4
160°	388.7	388.3	388.2	388.1	388.0	388.0	387.8	387.7	387.5	387.4	387.2
162.5°	394.5	393.9	393.9	393.8	393.7	393.6	393.6	393.5	393.5	393.5	393.4
165°	401.9	401.3	401.3	401.3	401.3	401.3	401.4	401.5	401.5	401.6	401.7
167.5°	408.0	407.5	407.5	407.5	407.5	407.6	407.7	407.9	408.2	408.4	408.6
170°	411.4	410.9	411.0	411.0	411.1	411.2	411.4	411.6	411.8	412.1	412.3
172.5°	414.0	413.4	413.5	413.6	413.7	413.7	413.9	414.1	414.4	414.6	414.8
175°	416.7	416.2	416.3	416.5	416.7	416.8	417.0	417.2	417.5	417.7	418.0
177.5°	418.2	417.8	417.9	418.1	418.2	418.3	418.5	418.7	418.8	419.0	419.2
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	4.8	5.7	5.9	6.6	6.5	6.9	7.2	7.4	7.6	7.3	7.1
90°	1.3	2.2	3.2	4.1	5.5	7.2	8.9	10.6	12.4	12.2	12.1
92.5°	7.0	7.7	8.4	9.1	9.6	10.0	10.4	10.8	11.2	11.3	11.3
95°	19.2	19.9	20.7	21.5	22.0	22.1	22.3	22.5	22.6	22.6	22.6
97.5°	34.3	34.9	35.6	36.3	36.8	37.1	37.4	37.7	38.0	38.0	38.0
100°	45.5	46.1	46.8	47.4	47.8	48.0	48.3	48.5	48.8	48.8	48.8
102.5°	57.2	57.7	58.2	58.7	59.2	59.4	59.7	60.0	60.3	60.4	60.5
105°	76.2	76.4	76.7	76.9	77.1	77.3	77.4	77.6	77.7	77.9	78.0
107.5°	95.7	96.0	96.4	96.7	96.9	96.9	96.9	96.9	96.9	96.9	97.0
110°	108.2	108.7	109.2	109.6	109.9	109.9	109.9	109.9	109.9	109.9	109.9



TEST NUMBER: P331241

CATALOG NUMBER: SA2XXDIP-C290D330U835-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	121.8	122.3	122.7	123.2	123.4	123.3	123.3	123.2	123.2	123.0	122.8
115°	141.8	142.3	142.7	143.2	143.4	143.2	143.0	142.9	142.7	142.7	142.6
117.5°	161.9	162.5	163.1	163.8	163.9	163.4	163.0	162.5	162.1	161.9	161.7
120°	175.2	175.8	176.4	177.0	177.0	176.4	175.8	175.2	174.5	174.5	174.5
122.5°	187.4	188.2	188.9	189.7	189.9	189.4	189.0	188.5	188.1	187.9	187.7
125°	206.3	207.0	207.7	208.4	208.7	208.4	208.2	208.0	207.7	207.5	207.3
127.5°	225.0	225.9	226.7	227.6	227.9	227.7	227.4	227.1	226.8	226.5	226.3
130°	236.7	237.7	238.7	239.7	240.2	240.0	239.9	239.7	239.5	239.4	239.2
132.5°	249.5	250.3	251.1	252.0	252.4	252.4	252.5	252.5	252.5	252.2	251.8
135°	266.9	267.8	268.6	269.5	270.0	270.2	270.3	270.5	270.6	270.5	270.5
137.5°	285.0	285.7	286.5	287.2	287.6	287.8	288.0	288.2	288.4	288.4	288.3
140°	296.1	296.8	297.5	298.2	298.7	299.1	299.5	299.9	300.3	300.3	300.3
142.5°	307.4	308.1	308.8	309.5	310.0	310.2	310.5	310.8	311.0	311.1	311.2
145°	323.5	324.0	324.6	325.1	325.6	326.1	326.6	327.0	327.5	327.6	327.7
147.5°	338.1	338.7	339.4	340.0	340.5	340.8	341.2	341.5	341.8	342.0	342.1
150°	347.8	348.2	348.7	349.2	349.6	349.9	350.2	350.5	350.8	351.1	351.3
152.5°	356.5	357.0	357.5	357.9	358.4	358.7	359.1	359.5	359.9	360.2	360.5
155°	369.4	369.7	369.9	370.1	370.4	370.6	370.8	371.1	371.3	371.7	372.1
157.5°	380.6	380.7	380.9	381.1	381.2	381.4	381.5	381.6	381.8	382.3	382.8
160°	387.4	387.5	387.7	387.8	388.0	388.0	388.1	388.2	388.3	388.7	389.2
162.5°	393.5	393.5	393.5	393.6	393.6	393.7	393.8	393.9	393.9	394.5	395.0
165°	401.6	401.5	401.5	401.4	401.3	401.3	401.3	401.3	401.3	401.9	402.4
167.5°	408.4	408.2	407.9	407.7	407.6	407.5	407.5	407.5	407.5	408.0	408.6
170°	412.1	411.8	411.6	411.4	411.2	411.1	411.0	411.0	410.9	411.4	412.0
172.5°	414.6	414.4	414.1	413.9	413.7	413.7	413.6	413.5	413.4	414.0	414.5
175°	417.7	417.5	417.2	417.0	416.8	416.7	416.5	416.3	416.2	416.7	417.3
177.5°	419.0	418.8	418.7	418.5	418.3	418.2	418.1	417.9	417.8	418.2	418.6
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	7.3	7.3	7.1	7.1	7.3	7.1	7.1
90°	11.9	11.7	11.7	11.8	11.9	11.9	12.0
92.5°	11.3	11.4	11.4	11.4	11.4	11.4	11.4
95°	22.6	22.6	22.5	22.4	22.2	22.1	21.9
97.5°	38.0	38.0	38.0	38.0	38.0	38.0	37.9
100°	48.8	48.8	48.7	48.6	48.6	48.5	48.4
102.5°	60.5	60.6	60.6	60.5	60.4	60.4	60.3
105°	78.2	78.4	78.4	78.4	78.4	78.4	78.4
107.5°	97.1	97.1	97.0	96.6	96.3	95.9	95.5
110°	109.9	109.9	109.8	109.5	109.3	109.1	108.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	122.6	122.4	122.2	122.1	121.9	121.7	121.5
115°	142.5	142.4	142.3	142.0	141.8	141.6	141.3
117.5°	161.5	161.3	161.1	160.9	160.7	160.4	160.2
120°	174.5	174.5	174.4	174.2	173.9	173.7	173.5
122.5°	187.5	187.3	187.2	187.0	186.8	186.6	186.5
125°	207.0	206.8	206.6	206.6	206.5	206.4	206.3
127.5°	226.0	225.7	225.4	225.2	224.9	224.7	224.4
130°	239.1	238.9	238.7	238.4	238.0	237.7	237.4
132.5°	251.5	251.2	250.9	250.6	250.4	250.1	249.9
135°	270.4	270.3	270.2	269.9	269.7	269.5	269.2
137.5°	288.2	288.2	288.0	287.7	287.4	287.1	286.7
140°	300.3	300.3	300.1	299.8	299.5	299.2	298.9
142.5°	311.2	311.3	311.2	310.9	310.5	310.2	309.9
145°	327.7	327.8	327.7	327.4	327.1	326.8	326.4
147.5°	342.3	342.5	342.4	342.1	341.8	341.5	341.2
150°	351.5	351.8	351.8	351.5	351.3	351.1	350.8
152.5°	360.8	361.1	361.1	360.8	360.5	360.2	359.9
155°	372.5	372.9	373.0	372.7	372.5	372.3	372.0
157.5°	383.4	383.9	384.0	383.6	383.2	382.9	382.5
160°	389.7	390.2	390.2	389.9	389.6	389.3	389.0
162.5°	395.5	396.1	396.1	395.8	395.4	395.0	394.6
165°	403.0	403.5	403.6	403.2	402.8	402.4	402.1
167.5°	409.1	409.7	409.8	409.4	408.9	408.5	408.1
170°	412.5	413.1	413.1	412.7	412.2	411.7	411.2
172.5°	415.1	415.6	415.7	415.2	414.7	414.3	413.8
175°	417.8	418.4	418.4	418.0	417.5	417.0	416.5
177.5°	418.9	419.3	419.3	418.9	418.6	418.2	417.8
180°	418.7	418.7	418.7	418.7	418.7	418.7	418.7

(END OF REPORT)