

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: P331249

Luminaire Tested: **SA2XXDIP-C290D530U835-4F0-1E-UDD-A**

Issue Date: 10/7/2019

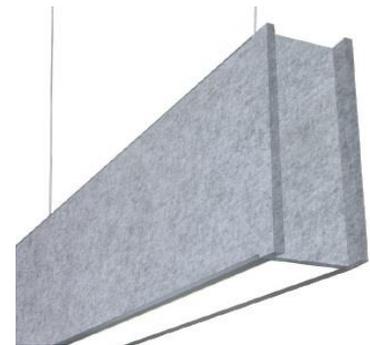
Test Information

Test Method: LM-79-08
Report Number: P331249
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-C290D530U835-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

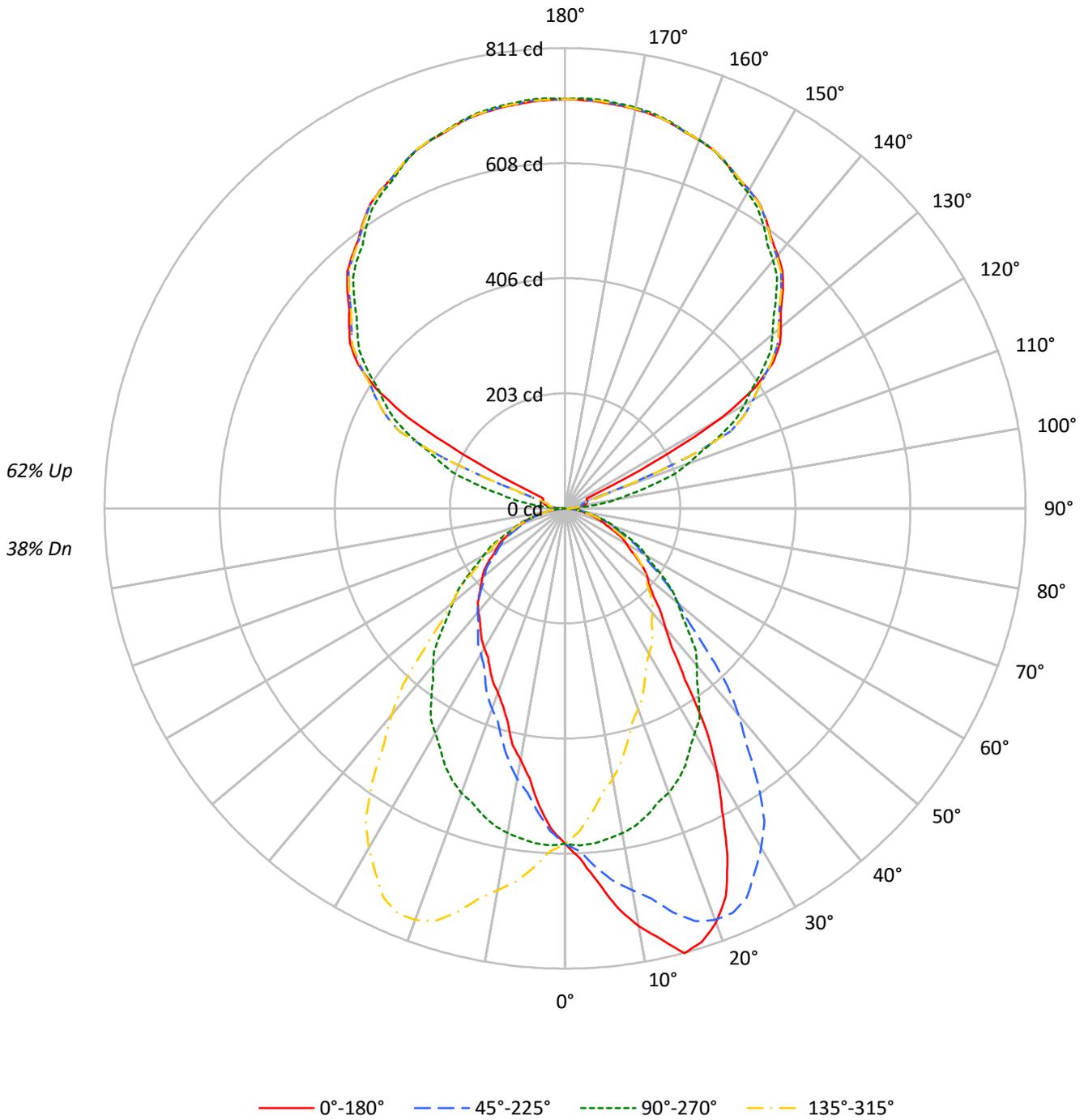
Lumens per Lamp: N/A
Luminaire Lumens: 3419.4 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29	24
4	73	63	55	50	66	57	51	46	47	43	39	38	35	32	29	27	25	21
5	67	56	48	43	61	51	45	40	42	37	34	34	31	28	26	24	22	19
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16	13
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	14	12
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	18	15	13	11

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	1.6
10°-20°	163.7	4.8
20°-30°	237.5	6.9
30°-40°	250.6	7.3
40°-50°	221.9	6.5
50°-60°	177.1	5.2
60°-70°	120.4	3.5
70°-80°	61.7	1.8
80°-90°	16.7	0.5
90°-100°	24.1	0.7
100°-110°	88.2	2.6
110°-120°	235.8	6.9
120°-130°	389.3	11.4
130°-140°	414.0	12.1
140°-150°	384.8	11.3
150°-160°	309.4	9.0
160°-170°	199.4	5.8
170°-180°	68.6	2.0
0°-30°	457.5	13.4
0°-40°	708.1	20.7
0°-60°	1107.1	32.4
0°-90°	1305.8	38.2
90°-120°	348.1	10.2
90°-150°	1536.2	44.9
90°-180°	2114.0	61.8
0°-180°	3419.4	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°	14	0	14	0	14	7
95°	22	34	22	34	22	21
105°	40	159	40	159	40	41
115°	43	300	43	300	43	107
125°	446	424	446	424	446	386
135°	542	525	542	525	542	418
145°	618	609	618	609	618	387
155°	671	671	671	671	671	310
165°	705	707	705	707	705	199
175°	719	723	719	723	719	68
180°	721	721	721	721	721	



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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°	7.5	7.5	7.6	7.4	7.4	7.5	7.3	7.0	7.1	7.2	7.2
90°	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6	11.0	10.4	9.5
92.5°	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7	12.4	12.1	11.6
95°	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5	20.9	20.4	19.5
97.5°	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2	27.7	27.2	25.4
100°	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6	30.7	29.7	27.8
102.5°	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0	31.8	30.6	27.1
105°	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4	33.1	31.8	27.5
107.5°	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0	43.3	44.6	42.5
110°	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1	79.7	91.3	124.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7	188.0	230.4	238.6
115°	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6	268.3	322.0	319.1
117.5°	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7	343.7	356.6	354.7
120°	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3	383.9	382.5	380.4
122.5°	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8	408.0	407.2	404.9
125°	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6	441.8	441.0	438.8
127.5°	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8	472.6	471.5	469.8
130°	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6	492.4	491.1	489.8
132.5°	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9	511.8	510.7	509.4
135°	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4	539.2	538.0	537.0
137.5°	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9	564.8	563.6	562.4
140°	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4	581.4	580.3	579.0
142.5°	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7	596.7	595.8	594.3
145°	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0	618.2	617.4	615.4
147.5°	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6	637.0	636.4	634.4
150°	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0	648.3	647.6	645.8
152.5°	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5	658.8	658.1	656.3
155°	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6	672.9	672.2	670.8
157.5°	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4	684.6	683.9	682.9
160°	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3	691.7	691.0	690.3
162.5°	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8	698.0	697.2	696.6
165°	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7	705.9	705.0	704.7
167.5°	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2	712.4	711.6	711.3
170°	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6	715.8	715.0	714.7
172.5°	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1	718.3	717.5	717.2
175°	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8	721.0	720.2	719.9
177.5°	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1	721.5	720.8	720.7
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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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	7.0	6.8	6.9	6.1	5.9	4.9	4.1	4.2	4.2	4.1
90°	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5	10.4	10.3	10.2
95°	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9	30.1	26.3	22.4
97.5°	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3	56.5	45.8	35.0
100°	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4	76.5	60.6	44.7
102.5°	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9	116.6	113.2	109.8
105°	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6	162.1	165.6	169.1
107.5°	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8	205.6	208.4	211.2
110°	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2	233.6	236.1	238.5



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9	260.1	262.2	264.4
115°	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1	302.0	304.0	306.0
117.5°	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8	340.0	342.2	344.4
120°	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3	367.0	368.8	370.5
122.5°	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7	390.5	392.4	394.2
125°	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3	425.8	427.3	428.8
127.5°	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5	458.2	459.9	461.5
130°	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0	478.8	480.7	482.6
132.5°	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9	499.4	501.0	502.6
135°	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0	526.9	528.7	530.6
137.5°	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5	553.7	555.0	556.3
140°	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4	571.3	572.3	573.2
142.5°	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4	586.3	587.1	587.9
145°	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0	608.9	608.8	608.7
147.5°	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6	629.1	628.7	628.3
150°	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9	642.1	641.3	640.5
152.5°	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2	653.3	652.4	651.5
155°	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6	669.6	668.5	667.5
157.5°	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4	682.6	681.7	680.8
160°	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	690.3	689.6	688.9
162.5°	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6	696.9	696.2	695.5
165°	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6	705.9	705.2	704.5
167.5°	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3	712.6	711.9	711.2
170°	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0	716.4	715.7	715.0
172.5°	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6	718.9	718.2	717.5
175°	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8	722.0	721.2	720.4
177.5°	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3	722.7	722.0	721.4
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

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°	4.2	4.3	4.3	4.4	4.4	4.4	4.4	4.5	4.6	4.4	4.4
90°	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6	12.2	12.8	13.2
92.5°	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7	13.0	13.3	13.5
95°	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5	22.1	22.7	22.9
97.5°	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2	28.6	29.1	29.4
100°	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6	32.5	33.5	34.0
102.5°	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0	34.2	35.4	36.2
105°	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4	35.7	36.9	37.8
107.5°	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0	40.7	39.4	39.0
110°	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1	56.5	44.9	39.4



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7	103.4	61.1	40.2
115°	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6	160.9	107.2	76.2
117.5°	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7	317.7	304.7	284.5
120°	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3	386.7	388.1	381.0
122.5°	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8	409.7	410.5	409.4
125°	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6	443.4	444.2	444.8
127.5°	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8	475.0	476.2	476.8
130°	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6	494.9	496.2	496.8
132.5°	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9	514.0	515.1	515.5
135°	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4	541.5	542.7	543.2
137.5°	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9	567.0	568.2	568.5
140°	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4	583.4	584.5	584.7
142.5°	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7	598.6	599.6	599.8
145°	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0	619.8	620.6	620.7
147.5°	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6	638.2	638.8	638.8
150°	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0	649.7	650.4	650.5
152.5°	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5	660.2	660.9	660.8
155°	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6	674.3	675.0	674.8
157.5°	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4	686.2	687.0	687.0
160°	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3	693.0	693.7	693.7
162.5°	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8	699.6	700.4	700.3
165°	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7	707.5	708.3	708.3
167.5°	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2	714.1	714.9	714.8
170°	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6	717.4	718.2	718.1
172.5°	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1	719.9	720.7	720.6
175°	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8	722.6	723.4	723.3
177.5°	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1	722.8	723.4	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331249
 CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

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°	4.5	4.4	4.4	4.3	4.4	4.4	4.5	4.4	4.4	4.6	4.5
90°	13.4	13.6	13.9	14.1	13.9	13.6	13.4	13.2	12.8	12.2	11.6
92.5°	13.7	13.8	14.0	14.1	14.0	13.8	13.7	13.5	13.3	13.0	12.7
95°	22.8	22.7	22.6	22.4	22.6	22.7	22.8	22.9	22.7	22.1	21.5
97.5°	29.5	29.7	29.8	30.0	29.8	29.7	29.5	29.4	29.1	28.6	28.2
100°	34.3	34.5	34.7	35.0	34.7	34.5	34.3	34.0	33.5	32.5	31.6
102.5°	36.5	36.8	37.1	37.5	37.1	36.8	36.5	36.2	35.4	34.2	33.0
105°	38.3	38.7	39.2	39.7	39.2	38.7	38.3	37.8	36.9	35.7	34.4
107.5°	39.4	39.9	40.3	40.8	40.3	39.9	39.4	39.0	39.4	40.7	42.0
110°	39.8	40.3	40.8	41.2	40.8	40.3	39.8	39.4	44.9	56.5	68.1



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.5	40.9	41.3	41.6	41.3	40.9	40.5	40.2	61.1	103.4	145.7
115°	67.8	59.5	51.1	42.8	51.1	59.5	67.8	76.2	107.2	160.9	214.6
117.5°	257.0	229.6	202.2	174.7	202.2	229.6	257.0	284.5	304.7	317.7	330.7
120°	365.3	349.7	334.0	318.3	334.0	349.7	365.3	381.0	388.1	386.7	385.3
122.5°	406.4	403.3	400.3	397.2	400.3	403.3	406.4	409.4	410.5	409.7	408.8
125°	445.2	445.5	445.9	446.2	445.9	445.5	445.2	444.8	444.2	443.4	442.6
127.5°	476.9	477.0	477.0	477.1	477.0	477.0	476.9	476.8	476.2	475.0	473.8
130°	496.6	496.5	496.4	496.3	496.4	496.5	496.6	496.8	496.2	494.9	493.6
132.5°	515.4	515.3	515.2	515.1	515.2	515.3	515.4	515.5	515.1	514.0	512.9
135°	542.9	542.7	542.5	542.2	542.5	542.7	542.9	543.2	542.7	541.5	540.4
137.5°	568.1	567.7	567.4	567.0	567.4	567.7	568.1	568.5	568.2	567.0	565.9
140°	584.1	583.6	583.0	582.4	583.0	583.6	584.1	584.7	584.5	583.4	582.4
142.5°	599.2	598.6	598.0	597.4	598.0	598.6	599.2	599.8	599.6	598.6	597.7
145°	620.2	619.6	619.0	618.4	619.0	619.6	620.2	620.7	620.6	619.8	619.0
147.5°	638.4	637.9	637.4	636.9	637.4	637.9	638.4	638.8	638.8	638.2	637.6
150°	649.9	649.3	648.7	648.2	648.7	649.3	649.9	650.5	650.4	649.7	649.0
152.5°	660.1	659.3	658.5	657.8	658.5	659.3	660.1	660.8	660.9	660.2	659.5
155°	673.9	673.0	672.1	671.1	672.1	673.0	673.9	674.8	675.0	674.3	673.6
157.5°	686.0	685.1	684.2	683.3	684.2	685.1	686.0	687.0	687.0	686.2	685.4
160°	692.9	692.1	691.2	690.4	691.2	692.1	692.9	693.7	693.7	693.0	692.3
162.5°	699.3	698.3	697.3	696.3	697.3	698.3	699.3	700.3	700.4	699.6	698.8
165°	707.5	706.7	705.9	705.0	705.9	706.7	707.5	708.3	708.3	707.5	706.7
167.5°	713.7	712.7	711.6	710.6	711.6	712.7	713.7	714.8	714.9	714.1	713.2
170°	717.0	716.0	715.0	713.9	715.0	716.0	717.0	718.1	718.2	717.4	716.6
172.5°	719.6	718.5	717.5	716.4	717.5	718.5	719.6	720.6	720.7	719.9	719.1
175°	722.1	720.9	719.8	718.6	719.8	720.9	722.1	723.3	723.4	722.6	721.8
177.5°	722.5	721.6	720.8	720.0	720.8	721.6	722.5	723.3	723.4	722.8	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

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°	4.4	4.4	4.4	4.4	4.3	4.3	4.2	4.1	4.2	4.2	4.1
90°	11.0	10.4	9.5	8.6	7.7	6.7	5.6	4.3	3.1	1.8	0.5
92.5°	12.4	12.1	11.6	11.2	10.7	10.3	10.1	10.2	10.3	10.4	10.5
95°	20.9	20.4	19.5	18.7	17.9	17.1	18.6	22.4	26.3	30.1	33.9
97.5°	27.7	27.2	25.4	23.5	21.6	19.7	24.2	35.0	45.8	56.5	67.3
100°	30.7	29.7	27.8	25.8	23.8	21.9	28.8	44.7	60.6	76.5	92.4
102.5°	31.8	30.6	47.1	63.6	80.1	96.5	106.5	109.8	113.2	116.6	119.9
105°	33.1	31.8	63.5	95.2	126.8	158.5	172.6	169.1	165.6	162.1	158.6
107.5°	43.3	44.6	82.5	120.5	158.5	196.4	214.0	211.2	208.4	205.6	202.8
110°	79.7	91.3	124.8	158.4	191.9	225.4	240.9	238.5	236.1	233.6	231.2



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	188.0	230.4	238.6	246.9	255.2	263.5	266.5	264.4	262.2	260.1	257.9
115°	268.3	322.0	319.1	316.2	313.3	310.4	308.0	306.0	304.0	302.0	300.1
117.5°	343.7	356.6	354.7	352.7	350.7	348.7	346.6	344.4	342.2	340.0	337.8
120°	383.9	382.5	380.4	378.4	376.3	374.2	372.3	370.5	368.8	367.0	365.3
122.5°	408.0	407.2	404.9	402.6	400.3	398.1	396.0	394.2	392.4	390.5	388.7
125°	441.8	441.0	438.8	436.6	434.4	432.2	430.3	428.8	427.3	425.8	424.3
127.5°	472.6	471.5	469.8	468.2	466.5	464.9	463.2	461.5	459.9	458.2	456.5
130°	492.4	491.1	489.8	488.5	487.3	486.0	484.4	482.6	480.7	478.8	477.0
132.5°	511.8	510.7	509.4	508.2	506.9	505.6	504.2	502.6	501.0	499.4	497.9
135°	539.2	538.0	537.0	536.0	534.9	533.9	532.4	530.6	528.7	526.9	525.0
137.5°	564.8	563.6	562.4	561.3	560.1	558.9	557.6	556.3	555.0	553.7	552.5
140°	581.4	580.3	579.0	577.8	576.5	575.2	574.1	573.2	572.3	571.3	570.4
142.5°	596.7	595.8	594.3	592.8	591.4	589.9	588.8	587.9	587.1	586.3	585.4
145°	618.2	617.4	615.4	613.4	611.5	609.5	608.6	608.7	608.8	608.9	609.0
147.5°	637.0	636.4	634.4	632.5	630.5	628.6	627.8	628.3	628.7	629.1	629.6
150°	648.3	647.6	645.8	643.9	642.1	640.2	639.7	640.5	641.3	642.1	642.9
152.5°	658.8	658.1	656.3	654.6	652.8	651.0	650.6	651.5	652.4	653.3	654.2
155°	672.9	672.2	670.8	669.4	668.0	666.6	666.4	667.5	668.5	669.6	670.6
157.5°	684.6	683.9	682.9	681.9	680.9	680.0	679.9	680.8	681.7	682.6	683.4
160°	691.7	691.0	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0
162.5°	698.0	697.2	696.6	696.0	695.4	694.8	694.9	695.5	696.2	696.9	697.6
165°	705.9	705.0	704.7	704.3	704.0	703.7	703.8	704.5	705.2	705.9	706.6
167.5°	712.4	711.6	711.3	711.0	710.6	710.3	710.5	711.2	711.9	712.6	713.3
170°	715.8	715.0	714.7	714.5	714.3	714.0	714.3	715.0	715.7	716.4	717.0
172.5°	718.3	717.5	717.2	717.0	716.8	716.5	716.8	717.5	718.2	718.9	719.6
175°	721.0	720.2	719.9	719.7	719.5	719.3	719.5	720.4	721.2	722.0	722.8
177.5°	721.5	720.8	720.7	720.6	720.5	720.4	720.7	721.4	722.0	722.7	723.3
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

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°	4.9	5.9	6.1	6.9	6.8	7.0	7.2	7.2	7.2	7.1	7.0
90°	1.8	3.1	4.3	5.6	6.7	7.7	8.6	9.5	10.4	11.0	11.6
92.5°	10.4	10.3	10.2	10.1	10.3	10.7	11.2	11.6	12.1	12.4	12.7
95°	30.1	26.3	22.4	18.6	17.1	17.9	18.7	19.5	20.4	20.9	21.5
97.5°	56.5	45.8	35.0	24.2	19.7	21.6	23.5	25.4	27.2	27.7	28.2
100°	76.5	60.6	44.7	28.8	21.9	23.8	25.8	27.8	29.7	30.7	31.6
102.5°	116.6	113.2	109.8	106.5	96.5	80.1	63.6	47.1	30.6	31.8	33.0
105°	162.1	165.6	169.1	172.6	158.5	126.8	95.2	63.5	31.8	33.1	34.4
107.5°	205.6	208.4	211.2	214.0	196.4	158.5	120.5	82.5	44.6	43.3	42.0
110°	233.6	236.1	238.5	240.9	225.4	191.9	158.4	124.8	91.3	79.7	68.1



TEST NUMBER: P331249

CATALOG NUMBER: SA2XXDIP-C290D530U835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	260.1	262.2	264.4	266.5	263.5	255.2	246.9	238.6	230.4	188.0	145.7
115°	302.0	304.0	306.0	308.0	310.4	313.3	316.2	319.1	322.0	268.3	214.6
117.5°	340.0	342.2	344.4	346.6	348.7	350.7	352.7	354.7	356.6	343.7	330.7
120°	367.0	368.8	370.5	372.3	374.2	376.3	378.4	380.4	382.5	383.9	385.3
122.5°	390.5	392.4	394.2	396.0	398.1	400.3	402.6	404.9	407.2	408.0	408.8
125°	425.8	427.3	428.8	430.3	432.2	434.4	436.6	438.8	441.0	441.8	442.6
127.5°	458.2	459.9	461.5	463.2	464.9	466.5	468.2	469.8	471.5	472.6	473.8
130°	478.8	480.7	482.6	484.4	486.0	487.3	488.5	489.8	491.1	492.4	493.6
132.5°	499.4	501.0	502.6	504.2	505.6	506.9	508.2	509.4	510.7	511.8	512.9
135°	526.9	528.7	530.6	532.4	533.9	534.9	536.0	537.0	538.0	539.2	540.4
137.5°	553.7	555.0	556.3	557.6	558.9	560.1	561.3	562.4	563.6	564.8	565.9
140°	571.3	572.3	573.2	574.1	575.2	576.5	577.8	579.0	580.3	581.4	582.4
142.5°	586.3	587.1	587.9	588.8	589.9	591.4	592.8	594.3	595.8	596.7	597.7
145°	608.9	608.8	608.7	608.6	609.5	611.5	613.4	615.4	617.4	618.2	619.0
147.5°	629.1	628.7	628.3	627.8	628.6	630.5	632.5	634.4	636.4	637.0	637.6
150°	642.1	641.3	640.5	639.7	640.2	642.1	643.9	645.8	647.6	648.3	649.0
152.5°	653.3	652.4	651.5	650.6	651.0	652.8	654.6	656.3	658.1	658.8	659.5
155°	669.6	668.5	667.5	666.4	666.6	668.0	669.4	670.8	672.2	672.9	673.6
157.5°	682.6	681.7	680.8	679.9	680.0	680.9	681.9	682.9	683.9	684.6	685.4
160°	690.3	689.6	688.9	688.2	688.2	688.9	689.6	690.3	691.0	691.7	692.3
162.5°	696.9	696.2	695.5	694.9	694.8	695.4	696.0	696.6	697.2	698.0	698.8
165°	705.9	705.2	704.5	703.8	703.7	704.0	704.3	704.7	705.0	705.9	706.7
167.5°	712.6	711.9	711.2	710.5	710.3	710.6	711.0	711.3	711.6	712.4	713.2
170°	716.4	715.7	715.0	714.3	714.0	714.3	714.5	714.7	715.0	715.8	716.6
172.5°	718.9	718.2	717.5	716.8	716.5	716.8	717.0	717.2	717.5	718.3	719.1
175°	722.0	721.2	720.4	719.5	719.3	719.5	719.7	719.9	720.2	721.0	721.8
177.5°	722.7	722.0	721.4	720.7	720.4	720.5	720.6	720.7	720.8	721.5	722.1
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2	721.2



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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	7.5	7.4	7.4	7.6	7.5	7.5
90°	12.2	12.8	13.2	13.4	13.6	13.9	14.1
92.5°	13.0	13.3	13.5	13.7	13.8	14.0	14.1
95°	22.1	22.7	22.9	22.8	22.7	22.6	22.4
97.5°	28.6	29.1	29.4	29.5	29.7	29.8	30.0
100°	32.5	33.5	34.0	34.3	34.5	34.7	35.0
102.5°	34.2	35.4	36.2	36.5	36.8	37.1	37.5
105°	35.7	36.9	37.8	38.3	38.7	39.2	39.7
107.5°	40.7	39.4	39.0	39.4	39.9	40.3	40.8
110°	56.5	44.9	39.4	39.8	40.3	40.8	41.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	103.4	61.1	40.2	40.5	40.9	41.3	41.6
115°	160.9	107.2	76.2	67.8	59.5	51.1	42.8
117.5°	317.7	304.7	284.5	257.0	229.6	202.2	174.7
120°	386.7	388.1	381.0	365.3	349.7	334.0	318.3
122.5°	409.7	410.5	409.4	406.4	403.3	400.3	397.2
125°	443.4	444.2	444.8	445.2	445.5	445.9	446.2
127.5°	475.0	476.2	476.8	476.9	477.0	477.0	477.1
130°	494.9	496.2	496.8	496.6	496.5	496.4	496.3
132.5°	514.0	515.1	515.5	515.4	515.3	515.2	515.1
135°	541.5	542.7	543.2	542.9	542.7	542.5	542.2
137.5°	567.0	568.2	568.5	568.1	567.7	567.4	567.0
140°	583.4	584.5	584.7	584.1	583.6	583.0	582.4
142.5°	598.6	599.6	599.8	599.2	598.6	598.0	597.4
145°	619.8	620.6	620.7	620.2	619.6	619.0	618.4
147.5°	638.2	638.8	638.8	638.4	637.9	637.4	636.9
150°	649.7	650.4	650.5	649.9	649.3	648.7	648.2
152.5°	660.2	660.9	660.8	660.1	659.3	658.5	657.8
155°	674.3	675.0	674.8	673.9	673.0	672.1	671.1
157.5°	686.2	687.0	687.0	686.0	685.1	684.2	683.3
160°	693.0	693.7	693.7	692.9	692.1	691.2	690.4
162.5°	699.6	700.4	700.3	699.3	698.3	697.3	696.3
165°	707.5	708.3	708.3	707.5	706.7	705.9	705.0
167.5°	714.1	714.9	714.8	713.7	712.7	711.6	710.6
170°	717.4	718.2	718.1	717.0	716.0	715.0	713.9
172.5°	719.9	720.7	720.6	719.6	718.5	717.5	716.4
175°	722.6	723.4	723.3	722.1	720.9	719.8	718.6
177.5°	722.8	723.4	723.3	722.5	721.6	720.8	720.0
180°	721.2	721.2	721.2	721.2	721.2	721.2	721.2

(END OF REPORT)