

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: P331249-840

Luminaire Tested: **SA2XXDIP-C290D530U840-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331249-840
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-C290D530U840-4F0-1E-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

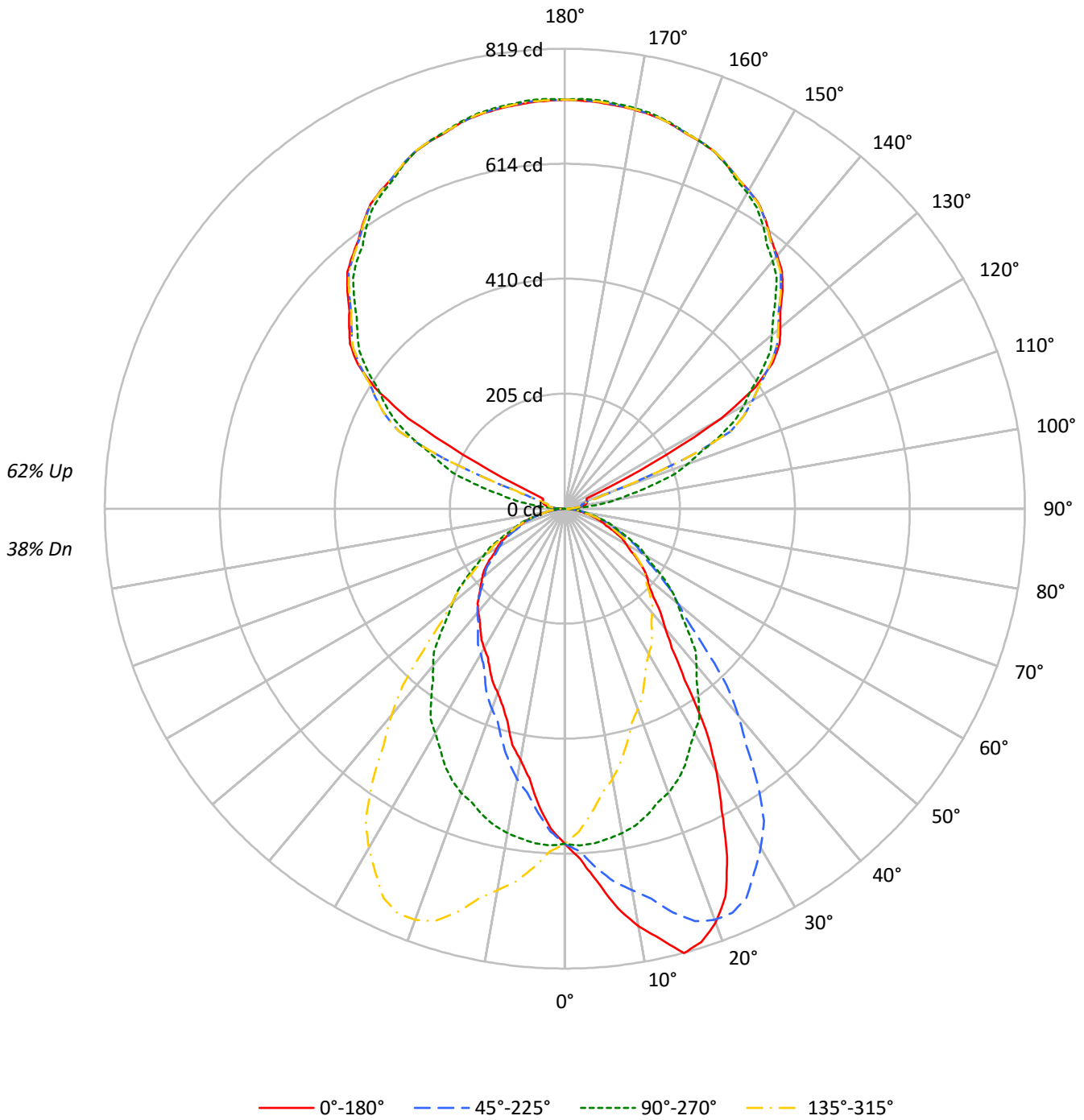
Lumens per Lamp: N/A
Luminaire Lumens: 3453.1 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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°	9637	9637	9637	9637
5°	10804	9700	8596	9700
10°	12381	9621	7438	9621
15°	13697	9444	6572	9444
20°	13490	9256	5991	9256
25°	12162	9002	5624	9002
30°	10051	8600	5354	8600
35°	7324	8180	5164	8180
40°	5851	7685	5056	7685
45°	5112	7108	4914	7108
50°	4808	6551	4818	6551
55°	4428	5987	4687	5987
60°	4059	5383	4492	5383
65°	3698	4844	4294	4844
70°	3356	4319	4008	4319
75°	2982	3737	3550	3737
80°	2566	3087	2854	3087
85°	2297	2297	1704	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.6
10°-20°	165.3	4.8
20°-30°	239.9	6.9
30°-40°	253.1	7.3
40°-50°	224.1	6.5
50°-60°	178.8	5.2
60°-70°	121.6	3.5
70°-80°	62.3	1.8
80°-90°	16.8	0.5
90°-100°	24.3	0.7
100°-110°	89.1	2.6
110°-120°	238.2	6.9
120°-130°	393.1	11.4
130°-140°	418.1	12.1
140°-150°	388.6	11.3
150°-160°	312.4	9.0
160°-170°	201.3	5.8
170°-180°	69.3	2.0
0°-30°	462.0	13.4
0°-40°	715.1	20.7
0°-60°	1118.0	32.4
0°-90°	1318.7	38.2
90°-120°	351.5	10.2
90°-150°	1551.4	44.9
90°-180°	2134.0	61.8
0°-180°	3453.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	597	597	597	597	597	
5°	667	598	530	598	667	67
15°	819	565	393	565	819	226
25°	683	505	316	505	683	309
35°	372	415	262	415	372	242
45°	224	311	215	311	224	176
55°	157	213	166	213	157	141
65°	97	127	112	127	97	96
75°	48	60	57	60	48	51
85°	12	12	9	12	12	14
90°	14	0	14	0	14	7
95°	23	34	23	34	23	21
105°	40	160	40	160	40	42
115°	43	303	43	303	43	108
125°	451	428	451	428	451	390
135°	548	530	548	530	548	422
145°	624	615	624	615	624	391
155°	678	677	678	677	678	313
165°	712	714	712	714	712	201
175°	726	730	726	730	726	69
180°	728	728	728	728	728	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	624.4	624.6	625.0	622.1	621.7	621.7	619.1	616.9	614.3	610.9	611.3
5°	666.6	669.1	670.0	667.3	663.2	662.8	658.8	652.5	646.4	641.7	638.2
7.5°	717.0	718.0	715.8	712.2	709.1	703.6	696.3	689.2	679.2	670.1	663.4
10°	755.2	756.6	752.7	747.4	743.1	736.6	726.1	715.3	702.3	689.6	679.5
12.5°	784.2	787.6	782.5	781.9	774.5	765.6	753.1	747.6	729.2	711.7	700.7
15°	819.4	819.2	819.7	815.3	809.8	808.4	795.2	780.6	754.8	744.4	726.5
17.5°	809.2	812.7	814.4	814.3	814.2	813.2	809.0	799.9	786.9	770.1	749.5
20°	785.1	789.6	790.3	795.6	798.6	802.4	804.1	801.5	793.6	779.5	761.6
22.5°	747.6	748.9	751.0	759.2	765.7	775.5	780.5	789.1	786.0	779.1	764.2
25°	682.7	680.4	688.4	692.6	707.5	723.1	734.4	746.7	757.7	764.4	760.0
27.5°	604.8	601.4	613.4	624.4	636.4	653.4	670.9	691.6	708.7	730.3	737.7
30°	539.1	541.2	552.6	564.3	582.7	606.5	626.3	648.9	673.6	697.6	714.4
32.5°	468.3	476.2	483.4	501.4	517.6	544.1	573.1	601.5	632.1	659.4	685.4
35°	371.6	380.8	390.9	403.9	426.7	453.0	481.3	519.6	561.4	598.7	629.4
37.5°	312.9	311.3	317.1	326.6	345.0	366.3	398.8	436.6	485.7	529.7	573.1
40°	277.6	276.7	280.7	289.5	303.5	319.1	347.6	380.8	426.5	480.2	531.8
42.5°	253.4	253.9	256.2	262.4	272.0	284.8	306.1	334.4	376.2	426.8	482.2
45°	223.9	225.5	228.0	231.1	236.5	247.1	259.0	279.2	312.3	354.5	409.0
47.5°	202.7	202.8	205.3	207.9	211.2	217.1	226.9	239.5	262.9	297.2	344.2
50°	191.4	189.8	191.6	193.6	197.0	201.2	207.6	219.5	235.1	262.9	302.2
52.5°	177.3	177.4	179.0	179.9	182.9	187.0	192.9	201.2	215.3	237.0	269.2
55°	157.3	158.5	159.5	160.8	163.6	166.5	171.2	176.6	187.6	203.9	227.8
57.5°	138.6	139.0	139.9	142.5	144.2	146.9	151.3	156.3	163.5	175.5	193.5
60°	125.7	125.7	127.5	128.7	131.0	133.7	137.1	142.0	148.5	158.2	172.8
62.5°	114.0	113.8	114.5	116.4	118.2	120.7	124.1	128.3	134.3	143.1	154.9
65°	96.8	96.3	97.8	98.2	100.0	102.5	105.3	109.7	114.5	120.9	131.5
67.5°	80.3	80.9	81.6	82.4	83.4	86.1	88.0	91.0	95.1	100.5	107.6
70°	71.1	71.1	71.1	71.8	73.2	74.5	76.3	78.9	82.8	87.4	93.8
72.5°	60.8	61.6	62.3	61.9	63.6	64.4	66.7	68.1	71.8	74.7	80.4
75°	47.8	47.8	47.8	48.9	49.6	50.2	51.6	53.0	54.8	58.5	61.5
77.5°	35.6	35.5	35.7	36.1	36.8	37.6	38.0	39.2	40.9	42.6	45.1
80°	27.6	28.0	28.2	28.7	28.7	29.1	29.4	31.0	32.1	33.2	34.8
82.5°	21.3	21.4	21.4	21.5	21.7	22.0	22.6	23.1	23.5	24.4	25.7
85°	12.4	12.1	12.1	12.6	12.4	12.4	12.8	13.3	13.3	13.5	14.2
87.5°	7.6	7.6	7.7	7.5	7.5	7.6	7.4	7.1	7.2	7.3	7.3
90°	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7	11.1	10.5	9.6
92.5°	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8	12.5	12.2	11.7
95°	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7	21.1	20.6	19.7
97.5°	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5	28.0	27.5	25.7
100°	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9	31.0	30.0	28.1
102.5°	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3	32.1	30.9	47.6
105°	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7	33.4	32.1	64.1
107.5°	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4	43.7	45.0	83.3
110°	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8	80.5	92.2	126.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1	189.9	232.7	241.0
115°	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7	270.9	325.2	322.2
117.5°	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0	347.1	360.1	358.2
120°	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1	387.7	386.3	384.2
122.5°	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8	412.0	411.2	408.9
125°	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0	446.2	445.4	443.1
127.5°	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5	477.3	476.2	474.4
130°	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5	497.3	495.9	494.6
132.5°	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0	516.8	515.7	514.4
135°	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7	544.5	543.3	542.3
137.5°	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5	570.4	569.2	567.9
140°	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1	587.1	586.0	584.7
142.5°	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6	602.6	601.7	600.2
145°	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1	624.3	623.5	621.5
147.5°	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9	643.3	642.7	640.7
150°	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4	654.7	654.0	652.2
152.5°	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0	665.3	664.6	662.8
155°	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2	679.5	678.8	677.4
157.5°	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2	691.4	690.6	689.6
160°	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1	698.5	697.8	697.1
162.5°	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7	704.9	704.1	703.5
165°	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7	712.9	712.0	711.7
167.5°	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2	719.4	718.6	718.3
170°	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7	722.9	722.1	721.8
172.5°	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2	725.4	724.6	724.3
175°	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9	728.1	727.3	727.0
177.5°	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2	728.6	727.9	727.8
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	612.5	611.1	610.2	606.8	603.9	601.0	600.1	600.4	596.3	592.5	590.9
5°	636.4	631.8	627.4	621.3	613.9	605.8	601.8	598.5	590.5	581.8	576.7
7.5°	657.7	651.2	642.8	631.2	620.5	607.8	599.8	592.7	581.0	568.7	561.1
10°	670.8	661.9	651.1	636.8	623.8	608.3	597.6	586.8	573.1	558.4	549.2
12.5°	682.0	669.9	659.3	641.1	625.6	606.3	593.6	578.3	563.9	546.4	537.5
15°	708.6	686.4	666.2	645.5	626.5	599.7	585.4	565.0	546.0	524.4	514.1
17.5°	729.2	704.2	672.5	646.2	624.0	594.2	573.4	549.0	526.4	501.8	487.8
20°	740.9	712.3	678.1	646.9	620.4	586.3	563.6	538.7	512.3	484.5	469.4
22.5°	747.9	717.8	684.0	644.2	613.0	580.0	551.4	523.9	497.3	467.3	451.4
25°	750.1	722.7	686.8	641.9	603.8	566.4	532.0	505.3	473.0	445.0	421.9
27.5°	739.2	719.5	685.1	637.5	593.2	549.5	511.1	481.0	446.9	416.5	393.1
30°	725.8	714.4	680.9	633.2	584.7	537.8	495.5	461.3	427.4	396.7	372.7
32.5°	705.1	702.7	673.2	626.9	575.7	522.9	479.2	444.6	407.0	376.8	354.1
35°	664.4	675.4	656.8	613.0	558.9	501.7	454.4	415.0	376.0	347.1	325.8
37.5°	609.8	637.1	632.3	592.6	535.9	478.7	426.5	385.3	348.1	318.9	298.0
40°	572.1	607.0	612.1	576.9	519.9	460.9	405.6	364.6	328.3	301.6	280.5
42.5°	531.8	572.5	586.3	558.3	502.2	442.1	386.9	344.4	308.4	282.6	263.9
45°	464.1	518.0	543.0	526.9	472.8	411.3	354.5	311.3	278.7	254.4	239.9
47.5°	400.8	459.7	493.3	487.7	440.1	379.2	323.0	281.6	249.8	230.5	217.5
50°	356.1	416.6	457.2	459.1	416.6	356.3	299.8	260.8	231.7	213.6	203.0
52.5°	317.1	375.0	419.2	429.0	390.3	332.4	279.1	240.2	214.6	197.9	188.5
55°	266.3	315.2	364.3	382.2	351.2	296.2	246.8	212.7	188.5	177.1	168.8
57.5°	221.5	262.2	307.5	327.3	308.2	261.1	214.8	185.1	165.6	155.5	149.2
60°	197.7	229.8	270.2	293.9	277.3	235.4	195.0	166.7	150.7	141.8	135.8
62.5°	175.7	204.2	238.3	259.9	251.0	211.4	175.2	150.3	136.4	128.1	123.7
65°	145.0	167.4	193.9	213.8	207.8	177.8	148.1	126.8	115.8	109.2	105.7
67.5°	119.4	135.6	153.9	171.4	166.6	145.3	121.6	104.9	96.7	91.0	88.9
70°	103.2	115.6	131.9	145.9	142.0	124.6	105.7	91.5	84.4	79.6	77.6
72.5°	87.9	98.0	110.5	121.9	119.3	104.7	89.1	78.4	72.8	68.4	66.8
75°	66.3	74.1	81.7	89.3	88.6	77.4	68.2	59.9	55.5	52.1	51.4
77.5°	49.0	53.3	58.5	62.9	61.7	55.2	48.1	43.3	40.2	37.9	37.5
80°	37.4	39.9	43.6	46.8	45.2	42.4	36.7	33.2	31.0	28.7	27.8
82.5°	27.2	29.6	31.8	33.6	32.3	29.8	26.3	23.9	22.5	21.0	20.6
85°	14.2	15.6	16.6	17.0	16.6	14.9	13.3	12.4	11.2	10.5	10.3
87.5°	7.3	7.1	6.9	7.0	6.2	6.0	4.9	4.1	4.2	4.2	4.1
90°	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5	1.8	3.1	4.3
92.5°	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6	10.5	10.4	10.3
95°	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2	30.4	26.6	22.6
97.5°	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0	57.1	46.3	35.3
100°	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3	77.3	61.2	45.1
102.5°	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1	117.8	114.3	110.9
105°	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2	163.7	167.2	170.8
107.5°	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8	207.6	210.5	213.3
110°	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5	235.9	238.4	240.9



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4	262.7	264.8	267.0
115°	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1	305.0	307.0	309.0
117.5°	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1	343.4	345.6	347.8
120°	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9	370.6	372.4	374.2
122.5°	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5	394.4	396.3	398.1
125°	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5	430.0	431.5	433.0
127.5°	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0	462.7	464.4	466.1
130°	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7	483.5	485.4	487.4
132.5°	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8	504.3	505.9	507.6
135°	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2	532.1	533.9	535.8
137.5°	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0	559.2	560.5	561.8
140°	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0	576.9	577.9	578.9
142.5°	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2	592.1	592.9	593.7
145°	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0	614.9	614.8	614.7
147.5°	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8	635.3	634.9	634.5
150°	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2	648.4	647.6	646.8
152.5°	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7	659.7	658.8	657.9
155°	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2	676.2	675.1	674.1
157.5°	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1	689.3	688.4	687.5
160°	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	697.1	696.4	695.7
162.5°	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5	703.8	703.1	702.4
165°	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6	712.9	712.2	711.4
167.5°	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3	719.6	718.9	718.2
170°	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1	723.5	722.8	722.1
172.5°	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7	726.0	725.3	724.6
175°	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9	729.1	728.3	727.5
177.5°	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4	729.8	729.1	728.5
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	589.1	587.9	584.1	582.1	578.8	575.6	573.6	574.5	575.2	574.9	574.3
5°	572.1	567.7	561.1	555.4	551.3	543.7	540.5	538.9	537.5	535.9	534.3
7.5°	552.0	545.1	535.6	527.5	519.8	510.3	504.9	501.8	498.5	494.8	491.6
10°	537.8	528.1	518.0	506.5	497.4	488.9	481.3	476.3	471.6	467.3	464.1
12.5°	522.7	511.6	499.1	483.4	473.3	461.1	460.0	451.1	443.9	441.2	437.5
15°	498.8	483.1	467.3	448.7	440.7	429.7	422.8	415.9	409.7	405.4	404.2
17.5°	471.5	451.3	435.6	422.2	409.1	397.8	391.4	386.0	380.8	375.1	374.3
20°	450.8	433.3	416.2	404.5	390.9	379.4	371.6	366.2	361.7	358.3	355.4
22.5°	431.1	412.0	396.3	383.5	370.2	360.9	354.8	349.4	345.8	342.0	339.2
25°	399.6	384.8	367.5	353.0	342.0	336.1	331.0	326.5	324.2	321.6	318.4
27.5°	372.0	355.5	339.4	328.2	318.5	313.3	309.6	306.5	304.4	302.9	301.0
30°	352.6	335.9	323.3	312.3	304.2	298.9	296.6	294.8	292.3	291.3	290.4
32.5°	333.9	318.8	308.0	298.4	290.8	287.3	285.3	283.6	281.7	280.7	278.8
35°	307.4	294.8	284.3	278.9	272.8	269.7	268.2	265.9	264.1	263.2	262.9
37.5°	282.5	271.6	264.6	257.8	255.2	253.4	251.2	249.6	249.0	248.9	248.6
40°	266.3	257.4	251.2	245.7	244.6	241.8	239.9	238.6	238.6	238.8	238.6
42.5°	251.7	243.6	238.1	233.4	232.1	230.5	228.5	228.5	228.8	229.6	228.8
45°	229.4	223.7	219.7	217.5	215.0	213.4	213.1	213.8	214.0	214.3	215.0
47.5°	208.9	205.1	201.6	199.0	197.9	197.7	197.4	198.6	199.8	200.2	201.2
50°	196.8	192.5	189.5	187.8	186.9	186.5	186.9	188.3	189.2	190.4	191.1
52.5°	183.3	180.2	178.1	176.8	176.5	176.8	176.8	178.4	179.9	180.4	180.7
55°	164.5	162.2	161.8	159.7	160.6	160.4	161.5	162.4	163.8	165.2	165.4
57.5°	145.7	143.9	142.7	142.9	143.2	144.2	145.1	146.7	148.1	149.7	149.8
60°	133.3	132.4	131.7	131.7	132.1	133.5	134.6	136.2	137.1	138.1	138.8
62.5°	121.9	121.0	120.3	120.7	121.9	122.7	124.0	124.9	125.8	126.7	127.0
65°	103.9	103.5	104.1	104.6	104.8	105.9	107.6	108.3	109.2	109.7	111.3
67.5°	87.4	87.5	87.4	88.0	89.4	89.6	91.1	92.7	92.9	93.8	94.8
70°	76.1	76.6	77.1	77.6	78.7	79.2	80.3	81.0	81.9	82.6	83.3
72.5°	65.8	65.9	66.4	66.3	67.4	68.3	69.3	70.0	70.9	71.8	72.4
75°	50.7	50.7	51.2	51.4	52.5	53.7	53.4	53.9	54.8	55.7	56.2
77.5°	37.1	36.6	37.1	37.3	37.7	38.6	38.8	39.4	40.5	40.2	40.7
80°	28.2	27.6	28.2	28.5	28.5	29.6	29.6	30.1	30.7	30.1	30.7
82.5°	20.1	19.8	20.3	20.4	20.7	20.8	21.1	21.2	21.9	21.6	21.9
85°	10.1	9.9	10.1	9.9	10.1	10.3	10.3	10.1	10.1	10.5	9.9
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°	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7	12.3	12.9	13.3
92.5°	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8	13.1	13.4	13.6
95°	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7	22.3	22.9	23.1
97.5°	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5	28.9	29.4	29.7
100°	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9	32.8	33.8	34.3
102.5°	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3	34.5	35.7	36.6
105°	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7	36.1	37.3	38.2
107.5°	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4	41.1	39.8	39.4
110°	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8	57.1	45.3	39.8



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1	104.4	61.7	40.6
115°	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7	162.5	108.3	77.0
117.5°	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0	320.8	307.7	287.3
120°	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1	390.5	391.9	384.8
122.5°	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8	413.7	414.5	413.4
125°	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0	447.8	448.6	449.2
127.5°	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5	479.7	480.9	481.5
130°	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5	499.8	501.1	501.7
132.5°	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0	519.1	520.2	520.6
135°	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7	546.8	548.1	548.6
137.5°	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5	572.6	573.8	574.1
140°	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1	589.2	590.3	590.5
142.5°	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6	604.5	605.5	605.7
145°	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1	625.9	626.7	626.8
147.5°	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9	644.5	645.1	645.1
150°	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4	656.1	656.8	656.9
152.5°	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0	666.7	667.4	667.3
155°	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2	681.0	681.7	681.5
157.5°	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2	693.0	693.8	693.8
160°	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1	699.8	700.5	700.5
162.5°	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7	706.5	707.3	707.2
165°	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7	714.5	715.3	715.3
167.5°	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2	721.1	722.0	721.9
170°	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7	724.5	725.3	725.2
172.5°	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2	727.0	727.8	727.7
175°	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9	729.7	730.5	730.4
177.5°	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2	729.9	730.5	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	572.5	572.1	572.1	570.5	572.1	572.1	572.5	574.3	574.9	575.2	574.5
5°	531.1	530.4	529.3	530.4	529.3	530.4	531.1	534.3	535.9	537.5	538.9
7.5°	490.1	487.4	487.0	484.2	487.0	487.4	490.1	491.6	494.8	498.5	501.8
10°	460.2	458.4	458.1	453.7	458.1	458.4	460.2	464.1	467.3	471.6	476.3
12.5°	437.5	433.0	433.9	431.4	433.9	433.0	437.5	437.5	441.2	443.9	451.1
15°	398.0	398.0	397.1	393.2	397.1	398.0	398.0	404.2	405.4	409.7	415.9
17.5°	369.7	369.2	367.1	368.2	367.1	369.2	369.7	374.3	375.1	380.8	386.0
20°	352.8	351.4	348.7	348.7	348.7	351.4	352.8	355.4	358.3	361.7	366.2
22.5°	336.9	336.8	333.9	334.8	333.9	336.8	336.9	339.2	342.0	345.8	349.4
25°	318.2	316.4	315.0	315.7	315.0	316.4	318.2	318.4	321.6	324.2	326.5
27.5°	300.4	299.4	299.3	297.5	299.3	299.4	300.4	301.0	302.9	304.4	306.5
30°	290.2	287.9	288.3	287.2	288.3	287.9	290.2	290.4	291.3	292.3	294.8
32.5°	278.4	277.6	277.2	276.2	277.2	277.6	278.4	278.8	280.7	281.7	283.6
35°	262.5	262.7	261.6	262.0	261.6	262.7	262.5	262.9	263.2	264.1	265.9
37.5°	248.4	249.1	248.6	248.7	248.6	249.1	248.4	248.6	248.9	249.0	249.6
40°	239.2	239.2	239.2	239.9	239.2	239.2	239.2	238.6	238.8	238.6	238.6
42.5°	230.5	230.0	229.7	229.6	229.7	230.0	230.5	228.8	229.6	228.8	228.5
45°	215.4	216.1	216.3	215.2	216.3	216.1	215.4	215.0	214.3	214.0	213.8
47.5°	201.8	201.9	201.8	202.8	201.8	201.9	201.8	201.2	200.2	199.8	198.6
50°	192.3	191.8	192.3	191.8	192.3	191.8	192.3	191.1	190.4	189.2	188.3
52.5°	182.2	182.3	182.0	181.9	182.0	182.3	182.2	180.7	180.4	179.9	178.4
55°	166.3	166.7	166.5	166.5	166.5	166.7	166.3	165.4	165.2	163.8	162.4
57.5°	150.0	150.4	150.7	149.7	150.7	150.4	150.0	149.8	149.7	148.1	146.7
60°	138.6	139.7	139.5	139.1	139.5	139.7	138.6	138.8	138.1	137.1	136.2
62.5°	128.1	128.6	128.5	128.4	128.5	128.6	128.1	127.0	126.7	125.8	124.9
65°	112.0	112.4	111.7	112.4	111.7	112.4	112.0	111.3	109.7	109.2	108.3
67.5°	94.5	94.7	95.2	95.5	95.2	94.7	94.5	94.8	93.8	92.9	92.7
70°	83.7	83.5	84.2	84.9	84.2	83.5	83.7	83.3	82.6	81.9	81.0
72.5°	72.3	72.8	72.6	73.1	72.6	72.8	72.3	72.4	71.8	70.9	70.0
75°	55.7	56.5	56.2	56.9	56.2	56.5	55.7	56.2	55.7	54.8	53.9
77.5°	40.3	40.4	40.3	40.7	40.3	40.4	40.3	40.7	40.2	40.5	39.4
80°	30.7	30.3	29.8	30.7	29.8	30.3	30.7	30.7	30.1	30.7	30.1
82.5°	21.4	21.6	21.2	21.2	21.2	21.6	21.4	21.9	21.6	21.9	21.2
85°	9.9	9.6	9.2	9.2	9.2	9.6	9.9	9.9	10.5	10.1	10.1
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°	13.5	13.7	14.0	14.2	14.0	13.7	13.5	13.3	12.9	12.3	11.7
92.5°	13.8	13.9	14.1	14.2	14.1	13.9	13.8	13.6	13.4	13.1	12.8
95°	23.0	22.9	22.8	22.6	22.8	22.9	23.0	23.1	22.9	22.3	21.7
97.5°	29.8	30.0	30.1	30.3	30.1	30.0	29.8	29.7	29.4	28.9	28.5
100°	34.6	34.8	35.0	35.3	35.0	34.8	34.6	34.3	33.8	32.8	31.9
102.5°	36.9	37.2	37.5	37.9	37.5	37.2	36.9	36.6	35.7	34.5	33.3
105°	38.7	39.1	39.6	40.1	39.6	39.1	38.7	38.2	37.3	36.1	34.7
107.5°	39.8	40.3	40.7	41.2	40.7	40.3	39.8	39.4	39.8	41.1	42.4
110°	40.2	40.7	41.2	41.6	41.2	40.7	40.2	39.8	45.3	57.1	68.8



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	40.9	41.3	41.7	42.0	41.7	41.3	40.9	40.6	61.7	104.4	147.1
115°	68.5	60.1	51.6	43.2	51.6	60.1	68.5	77.0	108.3	162.5	216.7
117.5°	259.5	231.9	204.2	176.4	204.2	231.9	259.5	287.3	307.7	320.8	334.0
120°	368.9	353.1	337.3	321.4	337.3	353.1	368.9	384.8	391.9	390.5	389.1
122.5°	410.4	407.3	404.2	401.1	404.2	407.3	410.4	413.4	414.5	413.7	412.8
125°	449.6	449.9	450.3	450.6	450.3	449.9	449.6	449.2	448.6	447.8	447.0
127.5°	481.6	481.7	481.7	481.8	481.7	481.7	481.6	481.5	480.9	479.7	478.5
130°	501.5	501.4	501.3	501.2	501.3	501.4	501.5	501.7	501.1	499.8	498.5
132.5°	520.5	520.4	520.3	520.2	520.3	520.4	520.5	520.6	520.2	519.1	518.0
135°	548.3	548.1	547.9	547.5	547.9	548.1	548.3	548.6	548.1	546.8	545.7
137.5°	573.7	573.3	573.0	572.6	573.0	573.3	573.7	574.1	573.8	572.6	571.5
140°	589.9	589.4	588.8	588.1	588.8	589.4	589.9	590.5	590.3	589.2	588.1
142.5°	605.1	604.5	603.9	603.3	603.9	604.5	605.1	605.7	605.5	604.5	603.6
145°	626.3	625.7	625.1	624.5	625.1	625.7	626.3	626.8	626.7	625.9	625.1
147.5°	644.7	644.2	643.7	643.2	643.7	644.2	644.7	645.1	645.1	644.5	643.9
150°	656.3	655.7	655.1	654.6	655.1	655.7	656.3	656.9	656.8	656.1	655.4
152.5°	666.6	665.8	665.0	664.3	665.0	665.8	666.6	667.3	667.4	666.7	666.0
155°	680.5	679.6	678.7	677.7	678.7	679.6	680.5	681.5	681.7	681.0	680.2
157.5°	692.8	691.9	690.9	690.0	690.9	691.9	692.8	693.8	693.8	693.0	692.2
160°	699.7	698.9	698.0	697.2	698.0	698.9	699.7	700.5	700.5	699.8	699.1
162.5°	706.2	705.2	704.2	703.2	704.2	705.2	706.2	707.2	707.3	706.5	705.7
165°	714.5	713.7	712.9	712.0	712.9	713.7	714.5	715.3	715.3	714.5	713.7
167.5°	720.7	719.7	718.6	717.6	718.6	719.7	720.7	721.9	722.0	721.1	720.2
170°	724.1	723.1	722.1	720.9	722.1	723.1	724.1	725.2	725.3	724.5	723.7
172.5°	726.7	725.6	724.6	723.5	724.6	725.6	726.7	727.7	727.8	727.0	726.2
175°	729.2	728.0	726.9	725.7	726.9	728.0	729.2	730.4	730.5	729.7	728.9
177.5°	729.6	728.7	727.9	727.1	727.9	728.7	729.6	730.4	730.5	729.9	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	573.6	575.6	578.8	582.1	584.1	587.9	589.1	590.9	592.5	596.3	600.4
5°	540.5	543.7	551.3	555.4	561.1	567.7	572.1	576.7	581.8	590.5	598.5
7.5°	504.9	510.3	519.8	527.5	535.6	545.1	552.0	561.1	568.7	581.0	592.7
10°	481.3	488.9	497.4	506.5	518.0	528.1	537.8	549.2	558.4	573.1	586.8
12.5°	460.0	461.1	473.3	483.4	499.1	511.6	522.7	537.5	546.4	563.9	578.3
15°	422.8	429.7	440.7	448.7	467.3	483.1	498.8	514.1	524.4	546.0	565.0
17.5°	391.4	397.8	409.1	422.2	435.6	451.3	471.5	487.8	501.8	526.4	549.0
20°	371.6	379.4	390.9	404.5	416.2	433.3	450.8	469.4	484.5	512.3	538.7
22.5°	354.8	360.9	370.2	383.5	396.3	412.0	431.1	451.4	467.3	497.3	523.9
25°	331.0	336.1	342.0	353.0	367.5	384.8	399.6	421.9	445.0	473.0	505.3
27.5°	309.6	313.3	318.5	328.2	339.4	355.5	372.0	393.1	416.5	446.9	481.0
30°	296.6	298.9	304.2	312.3	323.3	335.9	352.6	372.7	396.7	427.4	461.3
32.5°	285.3	287.3	290.8	298.4	308.0	318.8	333.9	354.1	376.8	407.0	444.6
35°	268.2	269.7	272.8	278.9	284.3	294.8	307.4	325.8	347.1	376.0	415.0
37.5°	251.2	253.4	255.2	257.8	264.6	271.6	282.5	298.0	318.9	348.1	385.3
40°	239.9	241.8	244.6	245.7	251.2	257.4	266.3	280.5	301.6	328.3	364.6
42.5°	228.5	230.5	232.1	233.4	238.1	243.6	251.7	263.9	282.6	308.4	344.4
45°	213.1	213.4	215.0	217.5	219.7	223.7	229.4	239.9	254.4	278.7	311.3
47.5°	197.4	197.7	197.9	199.0	201.6	205.1	208.9	217.5	230.5	249.8	281.6
50°	186.9	186.5	186.9	187.8	189.5	192.5	196.8	203.0	213.6	231.7	260.8
52.5°	176.8	176.8	176.5	176.8	178.1	180.2	183.3	188.5	197.9	214.6	240.2
55°	161.5	160.4	160.6	159.7	161.8	162.2	164.5	168.8	177.1	188.5	212.7
57.5°	145.1	144.2	143.2	142.9	142.7	143.9	145.7	149.2	155.5	165.6	185.1
60°	134.6	133.5	132.1	131.7	131.7	132.4	133.3	135.8	141.8	150.7	166.7
62.5°	124.0	122.7	121.9	120.7	120.3	121.0	121.9	123.7	128.1	136.4	150.3
65°	107.6	105.9	104.8	104.6	104.1	103.5	103.9	105.7	109.2	115.8	126.8
67.5°	91.1	89.6	89.4	88.0	87.4	87.5	87.4	88.9	91.0	96.7	104.9
70°	80.3	79.2	78.7	77.6	77.1	76.6	76.1	77.6	79.6	84.4	91.5
72.5°	69.3	68.3	67.4	66.3	66.4	65.9	65.8	66.8	68.4	72.8	78.4
75°	53.4	53.7	52.5	51.4	51.2	50.7	50.7	51.4	52.1	55.5	59.9
77.5°	38.8	38.6	37.7	37.3	37.1	36.6	37.1	37.5	37.9	40.2	43.3
80°	29.6	29.6	28.5	28.5	28.2	27.6	28.2	27.8	28.7	31.0	33.2
82.5°	21.1	20.8	20.7	20.4	20.3	19.8	20.1	20.6	21.0	22.5	23.9
85°	10.3	10.3	10.1	9.9	10.1	9.9	10.1	10.3	10.5	11.2	12.4
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°	11.1	10.5	9.6	8.7	7.8	6.8	5.7	4.3	3.1	1.8	0.5
92.5°	12.5	12.2	11.7	11.3	10.8	10.4	10.2	10.3	10.4	10.5	10.6
95°	21.1	20.6	19.7	18.9	18.1	17.3	18.8	22.6	26.6	30.4	34.2
97.5°	28.0	27.5	25.7	23.7	21.8	19.9	24.4	35.3	46.3	57.1	68.0
100°	31.0	30.0	28.1	26.1	24.0	22.1	29.1	45.1	61.2	77.3	93.3
102.5°	32.1	30.9	47.6	64.2	80.9	97.5	107.6	110.9	114.3	117.8	121.1
105°	33.4	32.1	64.1	96.1	128.1	160.1	174.3	170.8	167.2	163.7	160.2
107.5°	43.7	45.0	83.3	121.7	160.1	198.3	216.1	213.3	210.5	207.6	204.8
110°	80.5	92.2	126.0	160.0	193.8	227.6	243.3	240.9	238.4	235.9	233.5



TEST NUMBER: P331249-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	189.9	232.7	241.0	249.3	257.7	266.1	269.1	267.0	264.8	262.7	260.4
115°	270.9	325.2	322.2	319.3	316.4	313.5	311.0	309.0	307.0	305.0	303.1
117.5°	347.1	360.1	358.2	356.2	354.2	352.1	350.0	347.8	345.6	343.4	341.1
120°	387.7	386.3	384.2	382.1	380.0	377.9	376.0	374.2	372.4	370.6	368.9
122.5°	412.0	411.2	408.9	406.6	404.2	402.0	399.9	398.1	396.3	394.4	392.5
125°	446.2	445.4	443.1	440.9	438.7	436.5	434.5	433.0	431.5	430.0	428.5
127.5°	477.3	476.2	474.4	472.8	471.1	469.5	467.8	466.1	464.4	462.7	461.0
130°	497.3	495.9	494.6	493.3	492.1	490.8	489.2	487.4	485.4	483.5	481.7
132.5°	516.8	515.7	514.4	513.2	511.9	510.6	509.2	507.6	505.9	504.3	502.8
135°	544.5	543.3	542.3	541.3	540.2	539.2	537.7	535.8	533.9	532.1	530.2
137.5°	570.4	569.2	567.9	566.8	565.6	564.4	563.1	561.8	560.5	559.2	558.0
140°	587.1	586.0	584.7	583.5	582.2	580.9	579.8	578.9	577.9	576.9	576.0
142.5°	602.6	601.7	600.2	598.6	597.2	595.7	594.6	593.7	592.9	592.1	591.2
145°	624.3	623.5	621.5	619.5	617.5	615.5	614.6	614.7	614.8	614.9	615.0
147.5°	643.3	642.7	640.7	638.7	636.7	634.8	634.0	634.5	634.9	635.3	635.8
150°	654.7	654.0	652.2	650.3	648.4	646.5	646.0	646.8	647.6	648.4	649.2
152.5°	665.3	664.6	662.8	661.1	659.2	657.4	657.0	657.9	658.8	659.7	660.7
155°	679.5	678.8	677.4	676.0	674.6	673.2	673.0	674.1	675.1	676.2	677.2
157.5°	691.4	690.6	689.6	688.6	687.6	686.7	686.6	687.5	688.4	689.3	690.1
160°	698.5	697.8	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8
162.5°	704.9	704.1	703.5	702.9	702.3	701.7	701.8	702.4	703.1	703.8	704.5
165°	712.9	712.0	711.7	711.2	710.9	710.6	710.7	711.4	712.2	712.9	713.6
167.5°	719.4	718.6	718.3	718.0	717.6	717.3	717.5	718.2	718.9	719.6	720.3
170°	722.9	722.1	721.8	721.5	721.3	721.0	721.3	722.1	722.8	723.5	724.1
172.5°	725.4	724.6	724.3	724.1	723.9	723.6	723.9	724.6	725.3	726.0	726.7
175°	728.1	727.3	727.0	726.8	726.6	726.4	726.6	727.5	728.3	729.1	729.9
177.5°	728.6	727.9	727.8	727.7	727.6	727.5	727.8	728.5	729.1	729.8	730.4
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



TEST NUMBER: P331249-840
 CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	600.1	601.0	603.9	606.8	610.2	611.1	612.5	611.3	610.9	614.3	616.9
5°	601.8	605.8	613.9	621.3	627.4	631.8	636.4	638.2	641.7	646.4	652.5
7.5°	599.8	607.8	620.5	631.2	642.8	651.2	657.7	663.4	670.1	679.2	689.2
10°	597.6	608.3	623.8	636.8	651.1	661.9	670.8	679.5	689.6	702.3	715.3
12.5°	593.6	606.3	625.6	641.1	659.3	669.9	682.0	700.7	711.7	729.2	747.6
15°	585.4	599.7	626.5	645.5	666.2	686.4	708.6	726.5	744.4	754.8	780.6
17.5°	573.4	594.2	624.0	646.2	672.5	704.2	729.2	749.5	770.1	786.9	799.9
20°	563.6	586.3	620.4	646.9	678.1	712.3	740.9	761.6	779.5	793.6	801.5
22.5°	551.4	580.0	613.0	644.2	684.0	717.8	747.9	764.2	779.1	786.0	789.1
25°	532.0	566.4	603.8	641.9	686.8	722.7	750.1	760.0	764.4	757.7	746.7
27.5°	511.1	549.5	593.2	637.5	685.1	719.5	739.2	737.7	730.3	708.7	691.6
30°	495.5	537.8	584.7	633.2	680.9	714.4	725.8	714.4	697.6	673.6	648.9
32.5°	479.2	522.9	575.7	626.9	673.2	702.7	705.1	685.4	659.4	632.1	601.5
35°	454.4	501.7	558.9	613.0	656.8	675.4	664.4	629.4	598.7	561.4	519.6
37.5°	426.5	478.7	535.9	592.6	632.3	637.1	609.8	573.1	529.7	485.7	436.6
40°	405.6	460.9	519.9	576.9	612.1	607.0	572.1	531.8	480.2	426.5	380.8
42.5°	386.9	442.1	502.2	558.3	586.3	572.5	531.8	482.2	426.8	376.2	334.4
45°	354.5	411.3	472.8	526.9	543.0	518.0	464.1	409.0	354.5	312.3	279.2
47.5°	323.0	379.2	440.1	487.7	493.3	459.7	400.8	344.2	297.2	262.9	239.5
50°	299.8	356.3	416.6	459.1	457.2	416.6	356.1	302.2	262.9	235.1	219.5
52.5°	279.1	332.4	390.3	429.0	419.2	375.0	317.1	269.2	237.0	215.3	201.2
55°	246.8	296.2	351.2	382.2	364.3	315.2	266.3	227.8	203.9	187.6	176.6
57.5°	214.8	261.1	308.2	327.3	307.5	262.2	221.5	193.5	175.5	163.5	156.3
60°	195.0	235.4	277.3	293.9	270.2	229.8	197.7	172.8	158.2	148.5	142.0
62.5°	175.2	211.4	251.0	259.9	238.3	204.2	175.7	154.9	143.1	134.3	128.3
65°	148.1	177.8	207.8	213.8	193.9	167.4	145.0	131.5	120.9	114.5	109.7
67.5°	121.6	145.3	166.6	171.4	153.9	135.6	119.4	107.6	100.5	95.1	91.0
70°	105.7	124.6	142.0	145.9	131.9	115.6	103.2	93.8	87.4	82.8	78.9
72.5°	89.1	104.7	119.3	121.9	110.5	98.0	87.9	80.4	74.7	71.8	68.1
75°	68.2	77.4	88.6	89.3	81.7	74.1	66.3	61.5	58.5	54.8	53.0
77.5°	48.1	55.2	61.7	62.9	58.5	53.3	49.0	45.1	42.6	40.9	39.2
80°	36.7	42.4	45.2	46.8	43.6	39.9	37.4	34.8	33.2	32.1	31.0
82.5°	26.3	29.8	32.3	33.6	31.8	29.6	27.2	25.7	24.4	23.5	23.1
85°	13.3	14.9	16.6	17.0	16.6	15.6	14.2	14.2	13.5	13.3	13.3
87.5°	4.9	6.0	6.2	7.0	6.9	7.1	7.3	7.3	7.3	7.2	7.1
90°	1.8	3.1	4.3	5.7	6.8	7.8	8.7	9.6	10.5	11.1	11.7
92.5°	10.5	10.4	10.3	10.2	10.4	10.8	11.3	11.7	12.2	12.5	12.8
95°	30.4	26.6	22.6	18.8	17.3	18.1	18.9	19.7	20.6	21.1	21.7
97.5°	57.1	46.3	35.3	24.4	19.9	21.8	23.7	25.7	27.5	28.0	28.5
100°	77.3	61.2	45.1	29.1	22.1	24.0	26.1	28.1	30.0	31.0	31.9
102.5°	117.8	114.3	110.9	107.6	97.5	80.9	64.2	47.6	30.9	32.1	33.3
105°	163.7	167.2	170.8	174.3	160.1	128.1	96.1	64.1	32.1	33.4	34.7
107.5°	207.6	210.5	213.3	216.1	198.3	160.1	121.7	83.3	45.0	43.7	42.4
110°	235.9	238.4	240.9	243.3	227.6	193.8	160.0	126.0	92.2	80.5	68.8



TEST NUMBER: P331249-840
 CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	262.7	264.8	267.0	269.1	266.1	257.7	249.3	241.0	232.7	189.9	147.1
115°	305.0	307.0	309.0	311.0	313.5	316.4	319.3	322.2	325.2	270.9	216.7
117.5°	343.4	345.6	347.8	350.0	352.1	354.2	356.2	358.2	360.1	347.1	334.0
120°	370.6	372.4	374.2	376.0	377.9	380.0	382.1	384.2	386.3	387.7	389.1
122.5°	394.4	396.3	398.1	399.9	402.0	404.2	406.6	408.9	411.2	412.0	412.8
125°	430.0	431.5	433.0	434.5	436.5	438.7	440.9	443.1	445.4	446.2	447.0
127.5°	462.7	464.4	466.1	467.8	469.5	471.1	472.8	474.4	476.2	477.3	478.5
130°	483.5	485.4	487.4	489.2	490.8	492.1	493.3	494.6	495.9	497.3	498.5
132.5°	504.3	505.9	507.6	509.2	510.6	511.9	513.2	514.4	515.7	516.8	518.0
135°	532.1	533.9	535.8	537.7	539.2	540.2	541.3	542.3	543.3	544.5	545.7
137.5°	559.2	560.5	561.8	563.1	564.4	565.6	566.8	567.9	569.2	570.4	571.5
140°	576.9	577.9	578.9	579.8	580.9	582.2	583.5	584.7	586.0	587.1	588.1
142.5°	592.1	592.9	593.7	594.6	595.7	597.2	598.6	600.2	601.7	602.6	603.6
145°	614.9	614.8	614.7	614.6	615.5	617.5	619.5	621.5	623.5	624.3	625.1
147.5°	635.3	634.9	634.5	634.0	634.8	636.7	638.7	640.7	642.7	643.3	643.9
150°	648.4	647.6	646.8	646.0	646.5	648.4	650.3	652.2	654.0	654.7	655.4
152.5°	659.7	658.8	657.9	657.0	657.4	659.2	661.1	662.8	664.6	665.3	666.0
155°	676.2	675.1	674.1	673.0	673.2	674.6	676.0	677.4	678.8	679.5	680.2
157.5°	689.3	688.4	687.5	686.6	686.7	687.6	688.6	689.6	690.6	691.4	692.2
160°	697.1	696.4	695.7	695.0	695.0	695.7	696.4	697.1	697.8	698.5	699.1
162.5°	703.8	703.1	702.4	701.8	701.7	702.3	702.9	703.5	704.1	704.9	705.7
165°	712.9	712.2	711.4	710.7	710.6	710.9	711.2	711.7	712.0	712.9	713.7
167.5°	719.6	718.9	718.2	717.5	717.3	717.6	718.0	718.3	718.6	719.4	720.2
170°	723.5	722.8	722.1	721.3	721.0	721.3	721.5	721.8	722.1	722.9	723.7
172.5°	726.0	725.3	724.6	723.9	723.6	723.9	724.1	724.3	724.6	725.4	726.2
175°	729.1	728.3	727.5	726.6	726.4	726.6	726.8	727.0	727.3	728.1	728.9
177.5°	729.8	729.1	728.5	727.8	727.5	727.6	727.7	727.8	727.9	728.6	729.2
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3	728.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	619.1	621.7	621.7	622.1	625.0	624.6	624.4
5°	658.8	662.8	663.2	667.3	670.0	669.1	666.6
7.5°	696.3	703.6	709.1	712.2	715.8	718.0	717.0
10°	726.1	736.6	743.1	747.4	752.7	756.6	755.2
12.5°	753.1	765.6	774.5	781.9	782.5	787.6	784.2
15°	795.2	808.4	809.8	815.3	819.7	819.2	819.4
17.5°	809.0	813.2	814.2	814.3	814.4	812.7	809.2
20°	804.1	802.4	798.6	795.6	790.3	789.6	785.1
22.5°	780.5	775.5	765.7	759.2	751.0	748.9	747.6
25°	734.4	723.1	707.5	692.6	688.4	680.4	682.7
27.5°	670.9	653.4	636.4	624.4	613.4	601.4	604.8
30°	626.3	606.5	582.7	564.3	552.6	541.2	539.1
32.5°	573.1	544.1	517.6	501.4	483.4	476.2	468.3
35°	481.3	453.0	426.7	403.9	390.9	380.8	371.6
37.5°	398.8	366.3	345.0	326.6	317.1	311.3	312.9
40°	347.6	319.1	303.5	289.5	280.7	276.7	277.6
42.5°	306.1	284.8	272.0	262.4	256.2	253.9	253.4
45°	259.0	247.1	236.5	231.1	228.0	225.5	223.9
47.5°	226.9	217.1	211.2	207.9	205.3	202.8	202.7
50°	207.6	201.2	197.0	193.6	191.6	189.8	191.4
52.5°	192.9	187.0	182.9	179.9	179.0	177.4	177.3
55°	171.2	166.5	163.6	160.8	159.5	158.5	157.3
57.5°	151.3	146.9	144.2	142.5	139.9	139.0	138.6
60°	137.1	133.7	131.0	128.7	127.5	125.7	125.7
62.5°	124.1	120.7	118.2	116.4	114.5	113.8	114.0
65°	105.3	102.5	100.0	98.2	97.8	96.3	96.8
67.5°	88.0	86.1	83.4	82.4	81.6	80.9	80.3
70°	76.3	74.5	73.2	71.8	71.1	71.1	71.1
72.5°	66.7	64.4	63.6	61.9	62.3	61.6	60.8
75°	51.6	50.2	49.6	48.9	47.8	47.8	47.8
77.5°	38.0	37.6	36.8	36.1	35.7	35.5	35.6
80°	29.4	29.1	28.7	28.7	28.2	28.0	27.6
82.5°	22.6	22.0	21.7	21.5	21.4	21.4	21.3
85°	12.8	12.4	12.4	12.6	12.1	12.1	12.4
87.5°	7.4	7.6	7.5	7.5	7.7	7.6	7.6
90°	12.3	12.9	13.3	13.5	13.7	14.0	14.2
92.5°	13.1	13.4	13.6	13.8	13.9	14.1	14.2
95°	22.3	22.9	23.1	23.0	22.9	22.8	22.6
97.5°	28.9	29.4	29.7	29.8	30.0	30.1	30.3
100°	32.8	33.8	34.3	34.6	34.8	35.0	35.3
102.5°	34.5	35.7	36.6	36.9	37.2	37.5	37.9
105°	36.1	37.3	38.2	38.7	39.1	39.6	40.1
107.5°	41.1	39.8	39.4	39.8	40.3	40.7	41.2
110°	57.1	45.3	39.8	40.2	40.7	41.2	41.6



TEST NUMBER: P331249-840
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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	104.4	61.7	40.6	40.9	41.3	41.7	42.0
115°	162.5	108.3	77.0	68.5	60.1	51.6	43.2
117.5°	320.8	307.7	287.3	259.5	231.9	204.2	176.4
120°	390.5	391.9	384.8	368.9	353.1	337.3	321.4
122.5°	413.7	414.5	413.4	410.4	407.3	404.2	401.1
125°	447.8	448.6	449.2	449.6	449.9	450.3	450.6
127.5°	479.7	480.9	481.5	481.6	481.7	481.7	481.8
130°	499.8	501.1	501.7	501.5	501.4	501.3	501.2
132.5°	519.1	520.2	520.6	520.5	520.4	520.3	520.2
135°	546.8	548.1	548.6	548.3	548.1	547.9	547.5
137.5°	572.6	573.8	574.1	573.7	573.3	573.0	572.6
140°	589.2	590.3	590.5	589.9	589.4	588.8	588.1
142.5°	604.5	605.5	605.7	605.1	604.5	603.9	603.3
145°	625.9	626.7	626.8	626.3	625.7	625.1	624.5
147.5°	644.5	645.1	645.1	644.7	644.2	643.7	643.2
150°	656.1	656.8	656.9	656.3	655.7	655.1	654.6
152.5°	666.7	667.4	667.3	666.6	665.8	665.0	664.3
155°	681.0	681.7	681.5	680.5	679.6	678.7	677.7
157.5°	693.0	693.8	693.8	692.8	691.9	690.9	690.0
160°	699.8	700.5	700.5	699.7	698.9	698.0	697.2
162.5°	706.5	707.3	707.2	706.2	705.2	704.2	703.2
165°	714.5	715.3	715.3	714.5	713.7	712.9	712.0
167.5°	721.1	722.0	721.9	720.7	719.7	718.6	717.6
170°	724.5	725.3	725.2	724.1	723.1	722.1	720.9
172.5°	727.0	727.8	727.7	726.7	725.6	724.6	723.5
175°	729.7	730.5	730.4	729.2	728.0	726.9	725.7
177.5°	729.9	730.5	730.4	729.6	728.7	727.9	727.1
180°	728.3	728.3	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)