

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: P331242-930

Luminaire Tested: **SA2XXDIP-C290D330U930-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331242-930
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

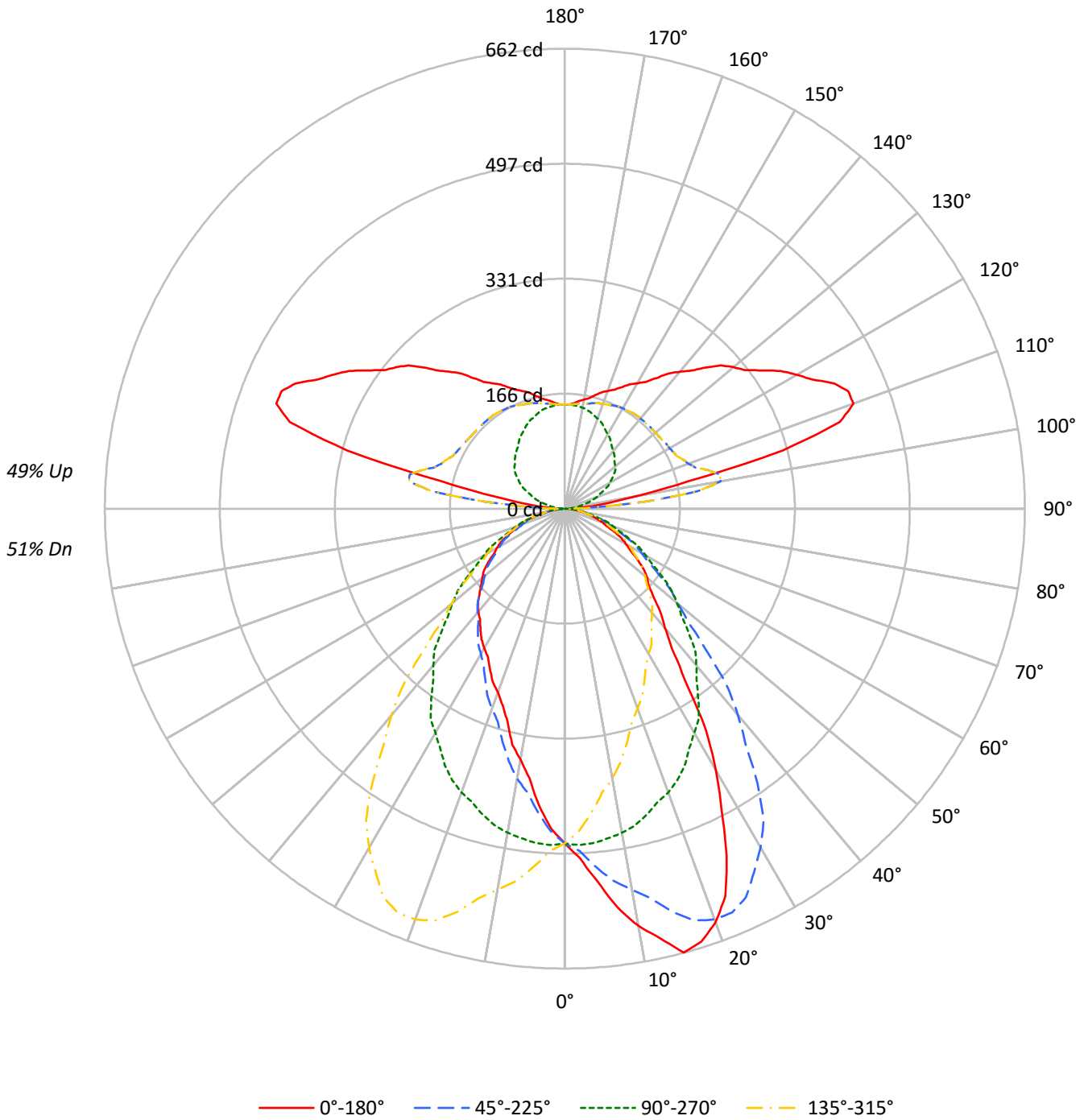
Lumens per Lamp: N/A
Luminaire Lumens: 2106.9 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51				51
1	98	94	91	87	91	87	84	81	74	72	70	62	60	59	51	50	49	44				44
2	90	83	77	72	83	77	72	67	65	62	58	55	52	50	45	43	42	37				37
3	82	73	66	61	76	68	62	57	58	54	50	49	46	43	41	38	36	32				32
4	76	65	57	52	70	61	54	49	52	47	43	44	40	37	37	34	32	28				28
5	70	58	50	45	64	54	47	42	47	41	37	40	36	32	33	30	28	25				25
6	64	53	45	39	59	49	42	37	42	37	33	36	32	29	30	27	25	22				22
7	60	48	40	34	55	44	38	33	39	33	29	33	29	26	28	25	22	20				20
8	55	43	36	31	51	41	34	29	35	30	26	30	26	23	26	22	20	18				18
9	52	40	32	27	48	37	31	26	32	27	23	28	24	21	24	21	18	16				16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	17	15				15

AVERAGE LUMINANCE (cd/sqm):

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	2.2
10°-20°	133.4	6.3
20°-30°	193.6	9.2
30°-40°	204.3	9.7
40°-50°	180.9	8.6
50°-60°	144.4	6.9
60°-70°	98.1	4.7
70°-80°	50.3	2.4
80°-90°	13.5	0.6
90°-100°	59.9	2.8
100°-110°	203.2	9.6
110°-120°	215.9	10.2
120°-130°	177.7	8.4
130°-140°	142.7	6.8
140°-150°	107.9	5.1
150°-160°	75.8	3.6
160°-170°	44.6	2.1
170°-180°	14.5	0.7
0°-30°	373.0	17.7
0°-40°	577.3	27.4
0°-60°	902.6	42.8
0°-90°	1064.5	50.5
90°-120°	479.1	22.7
90°-150°	907.4	43.1
90°-180°	1042.0	49.5
0°-180°	2106.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	482	482	482	482	482	
5°	538	483	428	483	538	54
15°	662	456	318	456	662	183
25°	551	408	255	408	551	249
35°	300	335	212	335	300	195
45°	181	251	174	251	181	142
55°	127	172	134	172	127	114
65°	78	102	91	102	78	78
75°	39	48	46	48	39	41
85°	10	10	7	10	10	11
90°	10	0	10	0	10	6
95°	33	10	33	10	33	43
105°	325	35	325	35	325	314
115°	427	62	427	62	427	418
125°	347	86	347	86	347	313
135°	287	101	287	101	287	223
145°	229	116	229	116	229	146
155°	193	132	193	132	193	90
165°	169	144	169	144	169	48
175°	152	150	152	150	152	15
180°	150	150	150	150	150	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	504.1	504.3	504.6	502.2	501.9	501.9	499.9	498.1	495.9	493.2	493.5
5°	538.2	540.2	541.0	538.7	535.4	535.1	531.9	526.8	521.9	518.0	515.3
7.5°	578.9	579.7	577.9	574.9	572.5	568.0	562.1	556.4	548.4	541.0	535.6
10°	609.7	610.8	607.6	603.4	599.9	594.7	586.2	577.5	567.0	556.8	548.6
12.5°	633.1	635.9	631.8	631.3	625.3	618.1	608.0	603.6	588.7	574.5	565.7
15°	661.5	661.4	661.8	658.2	653.8	652.6	642.0	630.2	609.4	601.0	586.5
17.5°	653.3	656.2	657.5	657.4	657.3	656.6	653.1	645.8	635.3	621.7	605.1
20°	633.8	637.5	638.1	642.3	644.7	647.8	649.1	647.1	640.7	629.3	614.9
22.5°	603.6	604.6	606.3	612.9	618.2	626.1	630.1	637.1	634.5	629.0	616.9
25°	551.1	549.3	555.8	559.1	571.2	583.8	592.9	602.8	611.7	617.1	613.6
27.5°	488.3	485.5	495.2	504.1	513.8	527.5	541.6	558.3	572.2	589.6	595.6
30°	435.2	436.9	446.1	455.6	470.4	489.7	505.6	523.9	543.8	563.2	576.7
32.5°	378.1	384.4	390.3	404.8	417.8	439.3	462.7	485.6	510.3	532.4	553.3
35°	300.0	307.4	315.6	326.1	344.5	365.7	388.6	419.5	453.2	483.4	508.2
37.5°	252.6	251.4	256.0	263.7	278.5	295.7	322.0	352.5	392.2	427.6	462.7
40°	224.1	223.4	226.7	233.7	245.0	257.6	280.6	307.4	344.3	387.7	429.3
42.5°	204.6	205.0	206.8	211.8	219.6	229.9	247.1	269.9	303.7	344.5	389.3
45°	180.8	182.1	184.1	186.5	190.9	199.5	209.1	225.4	252.1	286.2	330.2
47.5°	163.6	163.7	165.8	167.9	170.5	175.3	183.2	193.4	212.2	239.9	277.9
50°	154.5	153.2	154.7	156.3	159.1	162.4	167.6	177.2	189.8	212.2	243.9
52.5°	143.2	143.2	144.6	145.2	147.7	151.0	155.7	162.4	173.8	191.4	217.4
55°	127.0	128.0	128.7	129.8	132.1	134.4	138.2	142.6	151.5	164.6	183.9
57.5°	111.9	112.2	112.9	115.0	116.4	118.6	122.1	126.2	132.0	141.7	156.2
60°	101.5	101.5	103.0	103.9	105.7	107.9	110.7	114.6	119.8	127.8	139.5
62.5°	92.0	91.9	92.5	94.0	95.4	97.4	100.2	103.5	108.4	115.5	125.1
65°	78.2	77.8	78.9	79.2	80.7	82.8	85.0	88.5	92.5	97.6	106.2
67.5°	64.8	65.3	65.9	66.5	67.3	69.5	71.0	73.5	76.8	81.1	86.8
70°	57.4	57.4	57.4	58.0	59.1	60.2	61.6	63.7	66.9	70.5	75.7
72.5°	49.1	49.7	50.3	50.0	51.4	52.0	53.8	55.0	58.0	60.3	64.9
75°	38.6	38.6	38.6	39.5	40.0	40.5	41.7	42.8	44.3	47.2	49.7
77.5°	28.8	28.7	28.9	29.1	29.7	30.3	30.7	31.6	33.0	34.4	36.4
80°	22.3	22.6	22.7	23.2	23.2	23.5	23.7	25.0	25.9	26.8	28.1
82.5°	17.2	17.3	17.3	17.4	17.5	17.8	18.3	18.7	19.0	19.7	20.7
85°	10.0	9.8	9.8	10.2	10.0	10.0	10.4	10.8	10.8	10.9	11.5
87.5°	5.8	5.8	5.9	5.8	5.8	5.9	5.7	5.7	5.9	6.1	6.2
90°	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2	9.5	9.8	9.5
92.5°	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1	31.6	37.4	36.9
95°	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5	98.8	112.9	100.0
97.5°	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1	202.2	192.7	145.2
100°	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0	269.0	227.6	156.7
102.5°	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9	293.9	228.7	152.3
105°	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0	290.1	213.4	143.7
107.5°	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3	264.8	197.1	139.5
110°	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7	248.9	189.2	138.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6	237.8	184.2	138.8
115°	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7	224.1	178.6	140.0
117.5°	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8	215.5	175.9	142.1
120°	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0	210.8	174.3	143.5
122.5°	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8	206.9	173.3	145.0
125°	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8	201.4	171.7	147.5
127.5°	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8	196.2	170.7	149.9
130°	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1	192.7	170.2	151.8
132.5°	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5	190.0	170.0	153.7
135°	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8	186.1	169.7	155.9
137.5°	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7	183.4	169.6	157.8
140°	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7	181.7	169.4	158.7
142.5°	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5	180.2	169.4	159.4
145°	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9	178.1	168.8	160.1
147.5°	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4	175.9	167.8	160.4
150°	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9	174.0	167.1	160.1
152.5°	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4	172.4	165.9	159.7
155°	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9	169.4	163.9	159.0
157.5°	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8	166.6	161.8	157.7
160°	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2	164.4	160.5	157.0
162.5°	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7	162.7	159.3	156.3
165°	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9	159.6	157.0	155.0
167.5°	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2	156.6	155.0	153.7
170°	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5	155.0	153.8	153.0
172.5°	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3	153.4	152.5	152.1
175°	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1	151.2	150.9	150.7
177.5°	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5	150.0	149.8	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	494.5	493.3	492.6	489.9	487.5	485.2	484.5	484.7	481.4	478.3	477.0
5°	513.8	510.1	506.5	501.6	495.6	489.1	485.8	483.2	476.7	469.7	465.6
7.5°	531.0	525.7	518.9	509.6	500.9	490.7	484.2	478.5	469.0	459.1	453.0
10°	541.5	534.3	525.6	514.1	503.6	491.1	482.5	473.8	462.7	450.8	443.4
12.5°	550.6	540.9	532.3	517.6	505.1	489.5	479.2	466.9	455.3	441.2	433.9
15°	572.1	554.2	537.9	521.1	505.8	484.1	472.6	456.2	440.8	423.4	415.1
17.5°	588.7	568.5	542.9	521.7	503.8	479.7	462.9	443.2	425.0	405.1	393.8
20°	598.2	575.0	547.5	522.3	500.8	473.4	455.0	434.9	413.6	391.2	379.0
22.5°	603.8	579.5	552.2	520.1	494.9	468.2	445.2	423.0	401.5	377.2	364.4
25°	605.6	583.4	554.5	518.2	487.5	457.3	429.5	408.0	381.9	359.3	340.6
27.5°	596.8	580.9	553.1	514.7	478.9	443.6	412.6	388.3	360.8	336.2	317.4
30°	586.0	576.7	549.7	511.2	472.1	434.1	400.1	372.4	345.0	320.2	300.9
32.5°	569.2	567.3	543.5	506.1	464.8	422.2	386.9	359.0	328.6	304.2	285.8
35°	536.4	545.3	530.3	494.9	451.2	405.0	366.9	335.0	303.5	280.2	263.0
37.5°	492.3	514.4	510.5	478.4	432.7	386.5	344.3	311.0	281.0	257.5	240.6
40°	461.9	490.1	494.2	465.8	419.7	372.1	327.4	294.3	265.1	243.5	226.5
42.5°	429.3	462.2	473.4	450.7	405.4	356.9	312.3	278.0	249.0	228.1	213.0
45°	374.7	418.2	438.4	425.4	381.7	332.1	286.2	251.4	225.0	205.4	193.7
47.5°	323.6	371.1	398.3	393.7	355.3	306.1	260.7	227.3	201.7	186.1	175.6
50°	287.5	336.3	369.1	370.6	336.3	287.6	242.1	210.6	187.0	172.4	163.9
52.5°	256.0	302.7	338.4	346.3	315.1	268.4	225.3	194.0	173.3	159.8	152.2
55°	215.0	254.5	294.1	308.6	283.6	239.1	199.3	171.7	152.2	143.0	136.3
57.5°	178.8	211.7	248.3	264.2	248.8	210.8	173.4	149.4	133.7	125.6	120.4
60°	159.6	185.6	218.2	237.3	223.9	190.0	157.4	134.6	121.6	114.5	109.7
62.5°	141.9	164.9	192.4	209.9	202.6	170.6	141.5	121.3	110.1	103.4	99.9
65°	117.1	135.2	156.5	172.6	167.8	143.6	119.6	102.4	93.5	88.1	85.4
67.5°	96.4	109.5	124.3	138.4	134.5	117.3	98.2	84.7	78.1	73.5	71.7
70°	83.3	93.4	106.5	117.8	114.6	100.6	85.4	73.9	68.2	64.2	62.6
72.5°	70.9	79.1	89.2	98.4	96.3	84.5	71.9	63.3	58.8	55.2	53.9
75°	53.6	59.8	66.0	72.1	71.5	62.5	55.0	48.3	44.8	42.1	41.5
77.5°	39.5	43.0	47.2	50.8	49.8	44.6	38.8	35.0	32.4	30.6	30.2
80°	30.2	32.2	35.2	37.7	36.5	34.2	29.6	26.8	25.0	23.2	22.4
82.5°	21.9	23.9	25.7	27.1	26.1	24.1	21.2	19.3	18.2	17.0	16.6
85°	11.5	12.6	13.4	13.7	13.4	12.1	10.8	10.0	9.0	8.5	8.3
87.5°	6.0	5.6	5.3	5.5	4.9	4.7	3.9	3.3	3.3	3.4	3.3
90°	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3	1.1	2.3	2.9
92.5°	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5	5.1	7.2	8.4
95°	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1	11.3	14.1	16.7
97.5°	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4	17.9	21.0	24.9
100°	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2	23.1	25.6	30.2
102.5°	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5	28.1	30.7	35.3
105°	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1	36.3	38.3	42.6
107.5°	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5	44.4	46.3	50.3
110°	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0	50.1	51.9	55.6



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1	55.2	57.2	60.7
115°	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0	63.3	65.1	68.6
117.5°	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1	71.3	73.0	76.1
120°	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2	76.3	78.1	80.6
122.5°	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1	81.0	82.7	85.5
125°	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4	87.3	89.0	92.5
127.5°	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5	92.6	95.1	98.9
130°	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5	95.6	98.5	102.6
132.5°	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3	98.7	101.7	106.0
135°	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4	102.6	106.0	110.3
137.5°	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3	106.7	110.1	114.8
140°	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4	109.5	112.9	117.6
142.5°	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3	112.3	115.4	120.1
145°	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8	117.0	119.8	124.2
147.5°	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7	121.5	124.3	128.2
150°	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8	124.7	127.0	130.8
152.5°	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1	127.5	129.8	133.1
155°	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7	131.9	133.6	136.8
157.5°	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4	135.7	137.1	139.9
160°	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9	138.3	139.4	141.7
162.5°	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6	140.3	141.5	143.3
165°	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5	143.2	143.7	145.4
167.5°	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9	145.5	146.0	147.2
170°	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5	146.9	147.2	148.1
172.5°	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4	148.1	147.9	148.8
175°	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5	149.2	149.0	149.5
177.5°	150.5	150.0	149.8	149.8	149.8	149.4	149.5	150.0	149.5	149.4	149.8
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	475.6	474.7	471.6	469.9	467.2	464.7	463.1	463.8	464.4	464.1	463.7
5°	461.9	458.4	453.0	448.4	445.1	439.0	436.3	435.0	433.9	432.7	431.4
7.5°	445.6	440.1	432.4	425.8	419.6	412.0	407.6	405.1	402.4	399.5	396.9
10°	434.1	426.3	418.2	409.0	401.5	394.7	388.6	384.5	380.7	377.2	374.7
12.5°	422.0	413.0	402.9	390.3	382.1	372.3	371.4	364.2	358.4	356.2	353.2
15°	402.7	390.0	377.2	362.2	355.8	346.9	341.4	335.7	330.8	327.3	326.4
17.5°	380.7	364.4	351.6	340.9	330.3	321.1	316.0	311.6	307.4	302.8	302.1
20°	363.9	349.8	336.0	326.5	315.6	306.3	300.0	295.6	292.0	289.3	286.9
22.5°	348.1	332.6	319.9	309.7	298.9	291.4	286.4	282.1	279.2	276.1	273.9
25°	322.6	310.6	296.7	285.0	276.1	271.3	267.3	263.6	261.7	259.7	257.1
27.5°	300.4	287.0	274.0	265.0	257.1	252.9	250.0	247.4	245.7	244.5	243.0
30°	284.7	271.2	261.0	252.1	245.6	241.3	239.5	238.0	235.9	235.2	234.5
32.5°	269.5	257.4	248.7	240.9	234.8	232.0	230.3	228.9	227.4	226.7	225.1
35°	248.2	238.0	229.5	225.2	220.2	217.8	216.5	214.7	213.2	212.5	212.2
37.5°	228.0	219.2	213.6	208.1	206.0	204.6	202.8	201.5	201.1	201.0	200.7
40°	215.0	207.8	202.8	198.4	197.5	195.2	193.7	192.7	192.7	192.8	192.7
42.5°	203.2	196.7	192.2	188.4	187.4	186.1	184.5	184.5	184.7	185.4	184.7
45°	185.2	180.6	177.4	175.6	173.6	172.3	172.0	172.6	172.8	173.0	173.6
47.5°	168.7	165.6	162.7	160.7	159.8	159.6	159.4	160.4	161.3	161.6	162.4
50°	158.9	155.4	153.0	151.6	150.9	150.6	150.9	152.1	152.8	153.7	154.3
52.5°	148.0	145.4	143.8	142.8	142.5	142.8	142.8	144.1	145.2	145.6	145.9
55°	132.8	130.9	130.6	128.9	129.6	129.5	130.4	131.1	132.2	133.4	133.5
57.5°	117.6	116.2	115.2	115.4	115.6	116.4	117.2	118.5	119.6	120.8	120.9
60°	107.6	106.9	106.3	106.3	106.6	107.8	108.7	110.0	110.7	111.5	112.0
62.5°	98.4	97.7	97.1	97.4	98.4	99.1	100.1	100.9	101.6	102.3	102.6
65°	83.9	83.6	84.1	84.5	84.6	85.5	86.8	87.4	88.1	88.5	89.8
67.5°	70.5	70.6	70.5	71.0	72.2	72.3	73.5	74.8	75.0	75.7	76.6
70°	61.5	61.9	62.2	62.6	63.5	63.9	64.8	65.4	66.1	66.7	67.3
72.5°	53.2	53.2	53.6	53.6	54.4	55.1	55.9	56.5	57.2	58.0	58.5
75°	40.9	40.9	41.3	41.5	42.4	43.4	43.1	43.5	44.3	45.0	45.4
77.5°	29.9	29.5	29.9	30.1	30.4	31.1	31.3	31.8	32.7	32.4	32.9
80°	22.7	22.3	22.7	23.0	23.0	23.9	23.9	24.3	24.8	24.3	24.8
82.5°	16.2	16.0	16.4	16.5	16.7	16.8	17.0	17.1	17.7	17.4	17.7
85°	8.2	8.0	8.2	8.0	8.2	8.3	8.3	8.2	8.2	8.5	8.0
87.5°	3.2	3.3	3.3	3.8	4.0	3.9	3.7	3.6	3.5	3.3	3.3
90°	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2	8.6	9.2	9.5
92.5°	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1	21.5	19.2	17.4
95°	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5	57.9	45.8	39.5
97.5°	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1	144.1	112.9	92.1
100°	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0	227.3	187.8	153.0
102.5°	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9	311.9	283.0	246.1
105°	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0	382.5	386.3	376.8
107.5°	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3	377.4	407.3	421.3
110°	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7	361.3	398.1	421.8



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6	342.1	381.5	408.6
115°	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7	316.0	353.8	383.4
117.5°	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8	294.8	329.1	356.9
120°	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0	283.7	314.3	340.5
122.5°	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8	274.5	303.5	327.1
125°	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8	262.4	287.8	309.4
127.5°	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8	250.7	274.6	294.5
130°	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1	242.9	265.6	284.6
132.5°	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5	235.5	256.4	274.3
135°	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8	223.8	242.9	258.9
137.5°	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7	214.6	229.7	243.7
140°	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7	208.6	221.8	234.5
142.5°	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5	203.3	214.7	225.3
145°	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9	196.5	205.4	213.8
147.5°	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4	190.9	197.9	204.0
150°	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9	187.3	193.3	198.4
152.5°	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4	184.3	189.4	193.9
155°	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9	179.4	183.8	186.9
157.5°	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8	174.6	178.2	180.8
160°	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2	171.4	174.6	176.6
162.5°	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7	168.4	171.1	172.7
165°	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9	163.9	165.9	167.1
167.5°	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2	159.8	161.2	162.2
170°	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5	157.3	158.4	159.0
172.5°	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3	155.0	155.9	156.2
175°	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1	152.4	152.7	153.0
177.5°	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5	150.5	150.7	150.7
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	462.2	461.9	461.9	460.6	461.9	461.9	462.2	463.7	464.1	464.4	463.8
5°	428.8	428.2	427.3	428.2	427.3	428.2	428.8	431.4	432.7	433.9	435.0
7.5°	395.7	393.5	393.1	390.9	393.1	393.5	395.7	396.9	399.5	402.4	405.1
10°	371.5	370.1	369.8	366.3	369.8	370.1	371.5	374.7	377.2	380.7	384.5
12.5°	353.2	349.6	350.3	348.3	350.3	349.6	353.2	353.2	356.2	358.4	364.2
15°	321.3	321.3	320.6	317.5	320.6	321.3	321.3	326.4	327.3	330.8	335.7
17.5°	298.5	298.1	296.4	297.3	296.4	298.1	298.5	302.1	302.8	307.4	311.6
20°	284.9	283.7	281.5	281.5	281.5	283.7	284.9	286.9	289.3	292.0	295.6
22.5°	272.0	271.9	269.5	270.3	269.5	271.9	272.0	273.9	276.1	279.2	282.1
25°	256.9	255.4	254.3	254.9	254.3	255.4	256.9	257.1	259.7	261.7	263.6
27.5°	242.6	241.7	241.7	240.2	241.7	241.7	242.6	243.0	244.5	245.7	247.4
30°	234.3	232.4	232.8	231.9	232.8	232.4	234.3	234.5	235.2	235.9	238.0
32.5°	224.8	224.1	223.8	223.0	223.8	224.1	224.8	225.1	226.7	227.4	228.9
35°	211.9	212.1	211.2	211.5	211.2	212.1	211.9	212.2	212.5	213.2	214.7
37.5°	200.6	201.1	200.7	200.8	200.7	201.1	200.6	200.7	201.0	201.1	201.5
40°	193.1	193.1	193.1	193.7	193.1	193.1	193.1	192.7	192.8	192.7	192.7
42.5°	186.1	185.7	185.5	185.4	185.5	185.7	186.1	184.7	185.4	184.7	184.5
45°	173.9	174.5	174.6	173.7	174.6	174.5	173.9	173.6	173.0	172.8	172.6
47.5°	162.9	163.0	162.9	163.7	162.9	163.0	162.9	162.4	161.6	161.3	160.4
50°	155.2	154.8	155.2	154.8	155.2	154.8	155.2	154.3	153.7	152.8	152.1
52.5°	147.1	147.2	146.9	146.8	146.9	147.2	147.1	145.9	145.6	145.2	144.1
55°	134.3	134.6	134.4	134.4	134.4	134.6	134.3	133.5	133.4	132.2	131.1
57.5°	121.1	121.4	121.6	120.8	121.6	121.4	121.1	120.9	120.8	119.6	118.5
60°	111.9	112.8	112.6	112.3	112.6	112.8	111.9	112.0	111.5	110.7	110.0
62.5°	103.4	103.8	103.7	103.6	103.7	103.8	103.4	102.6	102.3	101.6	100.9
65°	90.4	90.7	90.2	90.7	90.2	90.7	90.4	89.8	88.5	88.1	87.4
67.5°	76.3	76.5	76.9	77.1	76.9	76.5	76.3	76.6	75.7	75.0	74.8
70°	67.6	67.4	68.0	68.6	68.0	67.4	67.6	67.3	66.7	66.1	65.4
72.5°	58.4	58.8	58.6	59.0	58.6	58.8	58.4	58.5	58.0	57.2	56.5
75°	45.0	45.6	45.4	45.9	45.4	45.6	45.0	45.4	45.0	44.3	43.5
77.5°	32.5	32.6	32.5	32.9	32.5	32.6	32.5	32.9	32.4	32.7	31.8
80°	24.8	24.5	24.1	24.8	24.1	24.5	24.8	24.8	24.3	24.8	24.3
82.5°	17.3	17.4	17.1	17.1	17.1	17.4	17.3	17.7	17.4	17.7	17.1
85°	8.0	7.7	7.4	7.4	7.4	7.7	8.0	8.0	8.5	8.2	8.2
87.5°	3.3	3.3	3.3	3.1	3.3	3.3	3.3	3.3	3.3	3.5	3.6
90°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.2	8.6	9.2
92.5°	17.1	16.2	16.4	16.0	16.4	16.2	17.1	17.4	19.2	21.5	25.1
95°	35.7	33.4	32.5	32.9	32.5	33.4	35.7	39.5	45.8	57.9	75.5
97.5°	78.4	71.3	67.1	64.7	67.1	71.3	78.4	92.1	112.9	144.1	176.1
100°	129.1	116.7	108.4	103.1	108.4	116.7	129.1	153.0	187.8	227.3	263.0
102.5°	220.0	198.9	188.5	181.5	188.5	198.9	220.0	246.1	283.0	311.9	319.9
105°	358.9	341.0	328.6	324.7	328.6	341.0	358.9	376.8	386.3	382.5	350.0
107.5°	423.5	422.6	420.0	414.7	420.0	422.6	423.5	421.3	407.3	377.4	328.3
110°	434.1	439.6	442.2	441.9	442.2	439.6	434.1	421.8	398.1	361.3	309.7



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	425.8	435.0	439.9	441.4	439.9	435.0	425.8	408.6	381.5	342.1	292.6
115°	403.9	417.1	424.6	427.2	424.6	417.1	403.9	383.4	353.8	316.0	271.7
117.5°	377.7	391.8	399.6	401.8	399.6	391.8	377.7	356.9	329.1	294.8	255.8
120°	360.7	374.2	382.5	385.5	382.5	374.2	360.7	340.5	314.3	283.7	248.0
122.5°	345.2	358.6	366.0	368.4	366.0	358.6	345.2	327.1	303.5	274.5	241.8
125°	326.1	337.0	344.2	346.6	344.2	337.0	326.1	309.4	287.8	262.4	232.8
127.5°	309.1	319.4	325.5	327.4	325.5	319.4	309.1	294.5	274.6	250.7	223.8
130°	298.7	308.5	314.3	316.6	314.3	308.5	298.7	284.6	265.6	242.9	218.1
132.5°	288.1	297.9	303.2	305.3	303.2	297.9	288.1	274.3	256.4	235.5	212.5
135°	271.3	280.9	286.1	287.2	286.1	280.9	271.3	258.9	242.9	223.8	204.8
137.5°	255.0	263.2	267.7	269.5	267.7	263.2	255.0	243.7	229.7	214.6	198.7
140°	243.7	251.2	255.5	257.2	255.5	251.2	243.7	234.5	221.8	208.6	194.7
142.5°	234.0	240.8	244.7	245.0	244.7	240.8	234.0	225.3	214.7	203.3	191.5
145°	220.6	225.6	228.4	229.3	228.4	225.6	220.6	213.8	205.4	196.5	186.9
147.5°	209.7	213.6	215.6	216.1	215.6	213.6	209.7	204.0	197.9	190.9	183.4
150°	202.8	206.3	208.0	208.3	208.0	206.3	202.8	198.4	193.3	187.3	180.9
152.5°	197.3	200.2	201.5	201.6	201.5	200.2	197.3	193.9	189.4	184.3	178.4
155°	190.1	192.2	193.3	192.7	193.3	192.2	190.1	186.9	183.8	179.4	174.9
157.5°	183.0	184.7	185.2	185.2	185.2	184.7	183.0	180.8	178.2	174.6	170.8
160°	178.6	180.0	180.3	180.3	180.3	180.0	178.6	176.6	174.6	171.4	168.2
162.5°	174.7	175.7	175.9	175.7	175.9	175.7	174.7	172.7	171.1	168.4	165.7
165°	168.2	169.4	169.4	169.1	169.4	169.4	168.2	167.1	165.9	163.9	161.9
167.5°	162.7	163.4	163.3	163.0	163.3	163.4	162.7	162.2	161.2	159.8	158.2
170°	159.3	160.1	159.9	159.3	159.9	160.1	159.3	159.0	158.4	157.3	156.5
172.5°	156.5	156.9	156.6	156.3	156.6	156.9	156.5	156.2	155.9	155.0	154.3
175°	153.0	153.3	153.0	152.4	153.0	153.3	153.0	153.0	152.7	152.4	152.1
177.5°	150.7	150.7	150.5	150.0	150.5	150.7	150.7	150.7	150.7	150.5	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331242-930
 CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	463.1	464.7	467.2	469.9	471.6	474.7	475.6	477.0	478.3	481.4	484.7
5°	436.3	439.0	445.1	448.4	453.0	458.4	461.9	465.6	469.7	476.7	483.2
7.5°	407.6	412.0	419.6	425.8	432.4	440.1	445.6	453.0	459.1	469.0	478.5
10°	388.6	394.7	401.5	409.0	418.2	426.3	434.1	443.4	450.8	462.7	473.8
12.5°	371.4	372.3	382.1	390.3	402.9	413.0	422.0	433.9	441.2	455.3	466.9
15°	341.4	346.9	355.8	362.2	377.2	390.0	402.7	415.1	423.4	440.8	456.2
17.5°	316.0	321.1	330.3	340.9	351.6	364.4	380.7	393.8	405.1	425.0	443.2
20°	300.0	306.3	315.6	326.5	336.0	349.8	363.9	379.0	391.2	413.6	434.9
22.5°	286.4	291.4	298.9	309.7	319.9	332.6	348.1	364.4	377.2	401.5	423.0
25°	267.3	271.3	276.1	285.0	296.7	310.6	322.6	340.6	359.3	381.9	408.0
27.5°	250.0	252.9	257.1	265.0	274.0	287.0	300.4	317.4	336.2	360.8	388.3
30°	239.5	241.3	245.6	252.1	261.0	271.2	284.7	300.9	320.2	345.0	372.4
32.5°	230.3	232.0	234.8	240.9	248.7	257.4	269.5	285.8	304.2	328.6	359.0
35°	216.5	217.8	220.2	225.2	229.5	238.0	248.2	263.0	280.2	303.5	335.0
37.5°	202.8	204.6	206.0	208.1	213.6	219.2	228.0	240.6	257.5	281.0	311.0
40°	193.7	195.2	197.5	198.4	202.8	207.8	215.0	226.5	243.5	265.1	294.3
42.5°	184.5	186.1	187.4	188.4	192.2	196.7	203.2	213.0	228.1	249.0	278.0
45°	172.0	172.3	173.6	175.6	177.4	180.6	185.2	193.7	205.4	225.0	251.4
47.5°	159.4	159.6	159.8	160.7	162.7	165.6	168.7	175.6	186.1	201.7	227.3
50°	150.9	150.6	150.9	151.6	153.0	155.4	158.9	163.9	172.4	187.0	210.6
52.5°	142.8	142.8	142.5	142.8	143.8	145.4	148.0	152.2	159.8	173.3	194.0
55°	130.4	129.5	129.6	128.9	130.6	130.9	132.8	136.3	143.0	152.2	171.7
57.5°	117.2	116.4	115.6	115.4	115.2	116.2	117.6	120.4	125.6	133.7	149.4
60°	108.7	107.8	106.6	106.3	106.3	106.9	107.6	109.7	114.5	121.6	134.6
62.5°	100.1	99.1	98.4	97.4	97.1	97.7	98.4	99.9	103.4	110.1	121.3
65°	86.8	85.5	84.6	84.5	84.1	83.6	83.9	85.4	88.1	93.5	102.4
67.5°	73.5	72.3	72.2	71.0	70.5	70.6	70.5	71.7	73.5	78.1	84.7
70°	64.8	63.9	63.5	62.6	62.2	61.9	61.5	62.6	64.2	68.2	73.9
72.5°	55.9	55.1	54.4	53.6	53.6	53.2	53.2	53.9	55.2	58.8	63.3
75°	43.1	43.4	42.4	41.5	41.3	40.9	40.9	41.5	42.1	44.8	48.3
77.5°	31.3	31.1	30.4	30.1	29.9	29.5	29.9	30.2	30.6	32.4	35.0
80°	23.9	23.9	23.0	23.0	22.7	22.3	22.7	22.4	23.2	25.0	26.8
82.5°	17.0	16.8	16.7	16.5	16.4	16.0	16.2	16.6	17.0	18.2	19.3
85°	8.3	8.3	8.2	8.0	8.2	8.0	8.2	8.3	8.5	9.0	10.0
87.5°	3.7	3.9	4.0	3.8	3.3	3.3	3.2	3.3	3.4	3.3	3.3
90°	9.5	9.8	9.5	7.7	5.8	4.3	3.4	2.9	2.3	1.1	0.3
92.5°	31.6	37.4	36.9	28.8	19.6	13.0	10.4	8.4	7.2	5.1	3.5
95°	98.8	112.9	100.0	66.5	41.5	28.2	21.3	16.7	14.1	11.3	10.1
97.5°	202.2	192.7	145.2	89.7	54.7	38.1	30.2	24.9	21.0	17.9	16.4
100°	269.0	227.6	156.7	94.5	59.4	44.1	36.0	30.2	25.6	23.1	22.2
102.5°	293.9	228.7	152.3	94.7	63.5	49.4	41.3	35.3	30.7	28.1	27.5
105°	290.1	213.4	143.7	96.2	70.6	57.1	49.0	42.6	38.3	36.3	35.1
107.5°	264.8	197.1	139.5	100.2	77.9	64.7	56.6	50.3	46.3	44.4	43.5
110°	248.9	189.2	138.6	103.4	82.7	70.0	61.6	55.6	51.9	50.1	49.0



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	237.8	184.2	138.8	106.9	87.3	75.1	66.4	60.7	57.2	55.2	54.1
115°	224.1	178.6	140.0	112.0	94.5	82.1	74.4	68.6	65.1	63.3	62.0
117.5°	215.5	175.9	142.1	117.6	101.1	89.7	81.6	76.1	73.0	71.3	70.1
120°	210.8	174.3	143.5	121.3	105.7	94.5	86.4	80.6	78.1	76.3	75.2
122.5°	206.9	173.3	145.0	124.5	110.1	99.5	91.2	85.5	82.7	81.0	80.1
125°	201.4	171.7	147.5	129.6	116.7	106.3	98.2	92.5	89.0	87.3	86.4
127.5°	196.2	170.7	149.9	134.4	122.8	112.7	104.4	98.9	95.1	92.6	91.5
130°	192.7	170.2	151.8	137.4	126.5	116.3	108.4	102.6	98.5	95.6	94.5
132.5°	190.0	170.0	153.7	140.4	129.7	120.1	112.0	106.0	101.7	98.7	97.3
135°	186.1	169.7	155.9	144.3	134.3	125.0	117.0	110.3	106.0	102.6	101.4
137.5°	183.4	169.6	157.8	147.3	137.9	128.8	121.3	114.8	110.1	106.7	105.3
140°	181.7	169.4	158.7	149.0	140.0	131.3	123.8	117.6	112.9	109.5	108.4
142.5°	180.2	169.4	159.4	150.3	141.6	133.2	126.2	120.1	115.4	112.3	111.3
145°	178.1	168.8	160.1	152.1	144.1	136.2	130.0	124.2	119.8	117.0	115.8
147.5°	175.9	167.8	160.4	153.1	146.0	138.7	133.1	128.2	124.3	121.5	120.7
150°	174.0	167.1	160.1	153.5	146.9	140.3	135.1	130.8	127.0	124.7	123.8
152.5°	172.4	165.9	159.7	153.8	147.8	141.9	137.2	133.1	129.8	127.5	127.1
155°	169.4	163.9	159.0	154.1	149.2	144.3	140.0	136.8	133.6	131.9	131.7
157.5°	166.6	161.8	157.7	154.1	150.2	146.0	142.4	139.9	137.1	135.7	135.4
160°	164.4	160.5	157.0	154.1	150.7	147.2	144.1	141.7	139.4	138.3	137.9
162.5°	162.7	159.3	156.3	153.8	150.9	147.9	145.4	143.3	141.5	140.3	140.6
165°	159.6	157.0	155.0	153.3	151.2	148.6	146.9	145.4	143.7	143.2	143.5
167.5°	156.6	155.0	153.7	152.9	151.2	149.3	148.2	147.2	146.0	145.5	145.9
170°	155.0	153.8	153.0	152.4	150.9	149.5	148.6	148.1	147.2	146.9	147.5
172.5°	153.4	152.5	152.1	151.7	150.7	149.8	149.1	148.8	147.9	148.1	148.4
175°	151.2	150.9	150.7	150.9	150.3	149.8	149.5	149.5	149.0	149.2	149.5
177.5°	150.0	149.8	150.0	150.5	150.0	149.8	149.8	149.8	149.8	149.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



TEST NUMBER: P331242-930

CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	484.5	485.2	487.5	489.9	492.6	493.3	494.5	493.5	493.2	495.9	498.1
5°	485.8	489.1	495.6	501.6	506.5	510.1	513.8	515.3	518.0	521.9	526.8
7.5°	484.2	490.7	500.9	509.6	518.9	525.7	531.0	535.6	541.0	548.4	556.4
10°	482.5	491.1	503.6	514.1	525.6	534.3	541.5	548.6	556.8	567.0	577.5
12.5°	479.2	489.5	505.1	517.6	532.3	540.9	550.6	565.7	574.5	588.7	603.6
15°	472.6	484.1	505.8	521.1	537.9	554.2	572.1	586.5	601.0	609.4	630.2
17.5°	462.9	479.7	503.8	521.7	542.9	568.5	588.7	605.1	621.7	635.3	645.8
20°	455.0	473.4	500.8	522.3	547.5	575.0	598.2	614.9	629.3	640.7	647.1
22.5°	445.2	468.2	494.9	520.1	552.2	579.5	603.8	616.9	629.0	634.5	637.1
25°	429.5	457.3	487.5	518.2	554.5	583.4	605.6	613.6	617.1	611.7	602.8
27.5°	412.6	443.6	478.9	514.7	553.1	580.9	596.8	595.6	589.6	572.2	558.3
30°	400.1	434.1	472.1	511.2	549.7	576.7	586.0	576.7	563.2	543.8	523.9
32.5°	386.9	422.2	464.8	506.1	543.5	567.3	569.2	553.3	532.4	510.3	485.6
35°	366.9	405.0	451.2	494.9	530.3	545.3	536.4	508.2	483.4	453.2	419.5
37.5°	344.3	386.5	432.7	478.4	510.5	514.4	492.3	462.7	427.6	392.2	352.5
40°	327.4	372.1	419.7	465.8	494.2	490.1	461.9	429.3	387.7	344.3	307.4
42.5°	312.3	356.9	405.4	450.7	473.4	462.2	429.3	389.3	344.5	303.7	269.9
45°	286.2	332.1	381.7	425.4	438.4	418.2	374.7	330.2	286.2	252.1	225.4
47.5°	260.7	306.1	355.3	393.7	398.3	371.1	323.6	277.9	239.9	212.2	193.4
50°	242.1	287.6	336.3	370.6	369.1	336.3	287.5	243.9	212.2	189.8	177.2
52.5°	225.3	268.4	315.1	346.3	338.4	302.7	256.0	217.4	191.4	173.8	162.4
55°	199.3	239.1	283.6	308.6	294.1	254.5	215.0	183.9	164.6	151.5	142.6
57.5°	173.4	210.8	248.8	264.2	248.3	211.7	178.8	156.2	141.7	132.0	126.2
60°	157.4	190.0	223.9	237.3	218.2	185.6	159.6	139.5	127.8	119.8	114.6
62.5°	141.5	170.6	202.6	209.9	192.4	164.9	141.9	125.1	115.5	108.4	103.5
65°	119.6	143.6	167.8	172.6	156.5	135.2	117.1	106.2	97.6	92.5	88.5
67.5°	98.2	117.3	134.5	138.4	124.3	109.5	96.4	86.8	81.1	76.8	73.5
70°	85.4	100.6	114.6	117.8	106.5	93.4	83.3	75.7	70.5	66.9	63.7
72.5°	71.9	84.5	96.3	98.4	89.2	79.1	70.9	64.9	60.3	58.0	55.0
75°	55.0	62.5	71.5	72.1	66.0	59.8	53.6	49.7	47.2	44.3	42.8
77.5°	38.8	44.6	49.8	50.8	47.2	43.0	39.5	36.4	34.4	33.0	31.6
80°	29.6	34.2	36.5	37.7	35.2	32.2	30.2	28.1	26.8	25.9	25.0
82.5°	21.2	24.1	26.1	27.1	25.7	23.9	21.9	20.7	19.7	19.0	18.7
85°	10.8	12.1	13.4	13.7	13.4	12.6	11.5	11.5	10.9	10.8	10.8
87.5°	3.9	4.7	4.9	5.5	5.3	5.6	6.0	6.2	6.1	5.9	5.7
90°	1.1	2.3	2.9	3.4	4.3	5.8	7.7	9.5	9.8	9.5	9.2
92.5°	5.1	7.2	8.4	10.4	13.0	19.6	28.8	36.9	37.4	31.6	25.1
95°	11.3	14.1	16.7	21.3	28.2	41.5	66.5	100.0	112.9	98.8	75.5
97.5°	17.9	21.0	24.9	30.2	38.1	54.7	89.7	145.2	192.7	202.2	176.1
100°	23.1	25.6	30.2	36.0	44.1	59.4	94.5	156.7	227.6	269.0	263.0
102.5°	28.1	30.7	35.3	41.3	49.4	63.5	94.7	152.3	228.7	293.9	319.9
105°	36.3	38.3	42.6	49.0	57.1	70.6	96.2	143.7	213.4	290.1	350.0
107.5°	44.4	46.3	50.3	56.6	64.7	77.9	100.2	139.5	197.1	264.8	328.3
110°	50.1	51.9	55.6	61.6	70.0	82.7	103.4	138.6	189.2	248.9	309.7



TEST NUMBER: P331242-930
 CATALOG NUMBER: SA2XXDIP-C290D330U930-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	55.2	57.2	60.7	66.4	75.1	87.3	106.9	138.8	184.2	237.8	292.6
115°	63.3	65.1	68.6	74.4	82.1	94.5	112.0	140.0	178.6	224.1	271.7
117.5°	71.3	73.0	76.1	81.6	89.7	101.1	117.6	142.1	175.9	215.5	255.8
120°	76.3	78.1	80.6	86.4	94.5	105.7	121.3	143.5	174.3	210.8	248.0
122.5°	81.0	82.7	85.5	91.2	99.5	110.1	124.5	145.0	173.3	206.9	241.8
125°	87.3	89.0	92.5	98.2	106.3	116.7	129.6	147.5	171.7	201.4	232.8
127.5°	92.6	95.1	98.9	104.4	112.7	122.8	134.4	149.9	170.7	196.2	223.8
130°	95.6	98.5	102.6	108.4	116.3	126.5	137.4	151.8	170.2	192.7	218.1
132.5°	98.7	101.7	106.0	112.0	120.1	129.7	140.4	153.7	170.0	190.0	212.5
135°	102.6	106.0	110.3	117.0	125.0	134.3	144.3	155.9	169.7	186.1	204.8
137.5°	106.7	110.1	114.8	121.3	128.8	137.9	147.3	157.8	169.6	183.4	198.7
140°	109.5	112.9	117.6	123.8	131.3	140.0	149.0	158.7	169.4	181.7	194.7
142.5°	112.3	115.4	120.1	126.2	133.2	141.6	150.3	159.4	169.4	180.2	191.5
145°	117.0	119.8	124.2	130.0	136.2	144.1	152.1	160.1	168.8	178.1	186.9
147.5°	121.5	124.3	128.2	133.1	138.7	146.0	153.1	160.4	167.8	175.9	183.4
150°	124.7	127.0	130.8	135.1	140.3	146.9	153.5	160.1	167.1	174.0	180.9
152.5°	127.5	129.8	133.1	137.2	141.9	147.8	153.8	159.7	165.9	172.4	178.4
155°	131.9	133.6	136.8	140.0	144.3	149.2	154.1	159.0	163.9	169.4	174.9
157.5°	135.7	137.1	139.9	142.4	146.0	150.2	154.1	157.7	161.8	166.6	170.8
160°	138.3	139.4	141.7	144.1	147.2	150.7	154.1	157.0	160.5	164.4	168.2
162.5°	140.3	141.5	143.3	145.4	147.9	150.9	153.8	156.3	159.3	162.7	165.7
165°	143.2	143.7	145.4	146.9	148.6	151.2	153.3	155.0	157.0	159.6	161.9
167.5°	145.5	146.0	147.2	148.2	149.3	151.2	152.9	153.7	155.0	156.6	158.2
170°	146.9	147.2	148.1	148.6	149.5	150.9	152.4	153.0	153.8	155.0	156.5
172.5°	148.1	147.9	148.8	149.1	149.8	150.7	151.7	152.1	152.5	153.4	154.3
175°	149.2	149.0	149.5	149.5	149.8	150.3	150.9	150.7	150.9	151.2	152.1
177.5°	149.5	149.4	149.8	149.8	149.8	150.0	150.5	150.0	149.8	150.0	150.5
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8	149.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	481.9	481.9	481.9	481.9	481.9	481.9	481.9
2.5°	499.9	501.9	501.9	502.2	504.6	504.3	504.1
5°	531.9	535.1	535.4	538.7	541.0	540.2	538.2
7.5°	562.1	568.0	572.5	574.9	577.9	579.7	578.9
10°	586.2	594.7	599.9	603.4	607.6	610.8	609.7
12.5°	608.0	618.1	625.3	631.3	631.8	635.9	633.1
15°	642.0	652.6	653.8	658.2	661.8	661.4	661.5
17.5°	653.1	656.6	657.3	657.4	657.5	656.2	653.3
20°	649.1	647.8	644.7	642.3	638.1	637.5	633.8
22.5°	630.1	626.1	618.2	612.9	606.3	604.6	603.6
25°	592.9	583.8	571.2	559.1	555.8	549.3	551.1
27.5°	541.6	527.5	513.8	504.1	495.2	485.5	488.3
30°	505.6	489.7	470.4	455.6	446.1	436.9	435.2
32.5°	462.7	439.3	417.8	404.8	390.3	384.4	378.1
35°	388.6	365.7	344.5	326.1	315.6	307.4	300.0
37.5°	322.0	295.7	278.5	263.7	256.0	251.4	252.6
40°	280.6	257.6	245.0	233.7	226.7	223.4	224.1
42.5°	247.1	229.9	219.6	211.8	206.8	205.0	204.6
45°	209.1	199.5	190.9	186.5	184.1	182.1	180.8
47.5°	183.2	175.3	170.5	167.9	165.8	163.7	163.6
50°	167.6	162.4	159.1	156.3	154.7	153.2	154.5
52.5°	155.7	151.0	147.7	145.2	144.6	143.2	143.2
55°	138.2	134.4	132.1	129.8	128.7	128.0	127.0
57.5°	122.1	118.6	116.4	115.0	112.9	112.2	111.9
60°	110.7	107.9	105.7	103.9	103.0	101.5	101.5
62.5°	100.2	97.4	95.4	94.0	92.5	91.9	92.0
65°	85.0	82.8	80.7	79.2	78.9	77.8	78.2
67.5°	71.0	69.5	67.3	66.5	65.9	65.3	64.8
70°	61.6	60.2	59.1	58.0	57.4	57.4	57.4
72.5°	53.8	52.0	51.4	50.0	50.3	49.7	49.1
75°	41.7	40.5	40.0	39.5	38.6	38.6	38.6
77.5°	30.7	30.3	29.7	29.1	28.9	28.7	28.8
80°	23.7	23.5	23.2	23.2	22.7	22.6	22.3
82.5°	18.3	17.8	17.5	17.4	17.3	17.3	17.2
85°	10.4	10.0	10.0	10.2	9.8	9.8	10.0
87.5°	5.7	5.9	5.8	5.8	5.9	5.8	5.8
90°	8.6	9.2	9.5	9.5	9.5	9.5	9.5
92.5°	21.5	19.2	17.4	17.1	16.2	16.4	16.0
95°	57.9	45.8	39.5	35.7	33.4	32.5	32.9
97.5°	144.1	112.9	92.1	78.4	71.3	67.1	64.7
100°	227.3	187.8	153.0	129.1	116.7	108.4	103.1
102.5°	311.9	283.0	246.1	220.0	198.9	188.5	181.5
105°	382.5	386.3	376.8	358.9	341.0	328.6	324.7
107.5°	377.4	407.3	421.3	423.5	422.6	420.0	414.7
110°	361.3	398.1	421.8	434.1	439.6	442.2	441.9



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	342.1	381.5	408.6	425.8	435.0	439.9	441.4
115°	316.0	353.8	383.4	403.9	417.1	424.6	427.2
117.5°	294.8	329.1	356.9	377.7	391.8	399.6	401.8
120°	283.7	314.3	340.5	360.7	374.2	382.5	385.5
122.5°	274.5	303.5	327.1	345.2	358.6	366.0	368.4
125°	262.4	287.8	309.4	326.1	337.0	344.2	346.6
127.5°	250.7	274.6	294.5	309.1	319.4	325.5	327.4
130°	242.9	265.6	284.6	298.7	308.5	314.3	316.6
132.5°	235.5	256.4	274.3	288.1	297.9	303.2	305.3
135°	223.8	242.9	258.9	271.3	280.9	286.1	287.2
137.5°	214.6	229.7	243.7	255.0	263.2	267.7	269.5
140°	208.6	221.8	234.5	243.7	251.2	255.5	257.2
142.5°	203.3	214.7	225.3	234.0	240.8	244.7	245.0
145°	196.5	205.4	213.8	220.6	225.6	228.4	229.3
147.5°	190.9	197.9	204.0	209.7	213.6	215.6	216.1
150°	187.3	193.3	198.4	202.8	206.3	208.0	208.3
152.5°	184.3	189.4	193.9	197.3	200.2	201.5	201.6
155°	179.4	183.8	186.9	190.1	192.2	193.3	192.7
157.5°	174.6	178.2	180.8	183.0	184.7	185.2	185.2
160°	171.4	174.6	176.6	178.6	180.0	180.3	180.3
162.5°	168.4	171.1	172.7	174.7	175.7	175.9	175.7
165°	163.9	165.9	167.1	168.2	169.4	169.4	169.1
167.5°	159.8	161.2	162.2	162.7	163.4	163.3	163.0
170°	157.3	158.4	159.0	159.3	160.1	159.9	159.3
172.5°	155.0	155.9	156.2	156.5	156.9	156.6	156.3
175°	152.4	152.7	153.0	153.0	153.3	153.0	152.4
177.5°	150.5	150.7	150.7	150.7	150.7	150.5	150.0
180°	149.8	149.8	149.8	149.8	149.8	149.8	149.8

(END OF REPORT)