

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: P331240-940

Luminaire Tested: **SA2XXDIP-C290D330U940-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331240-940
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-C290D330U940-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 330 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

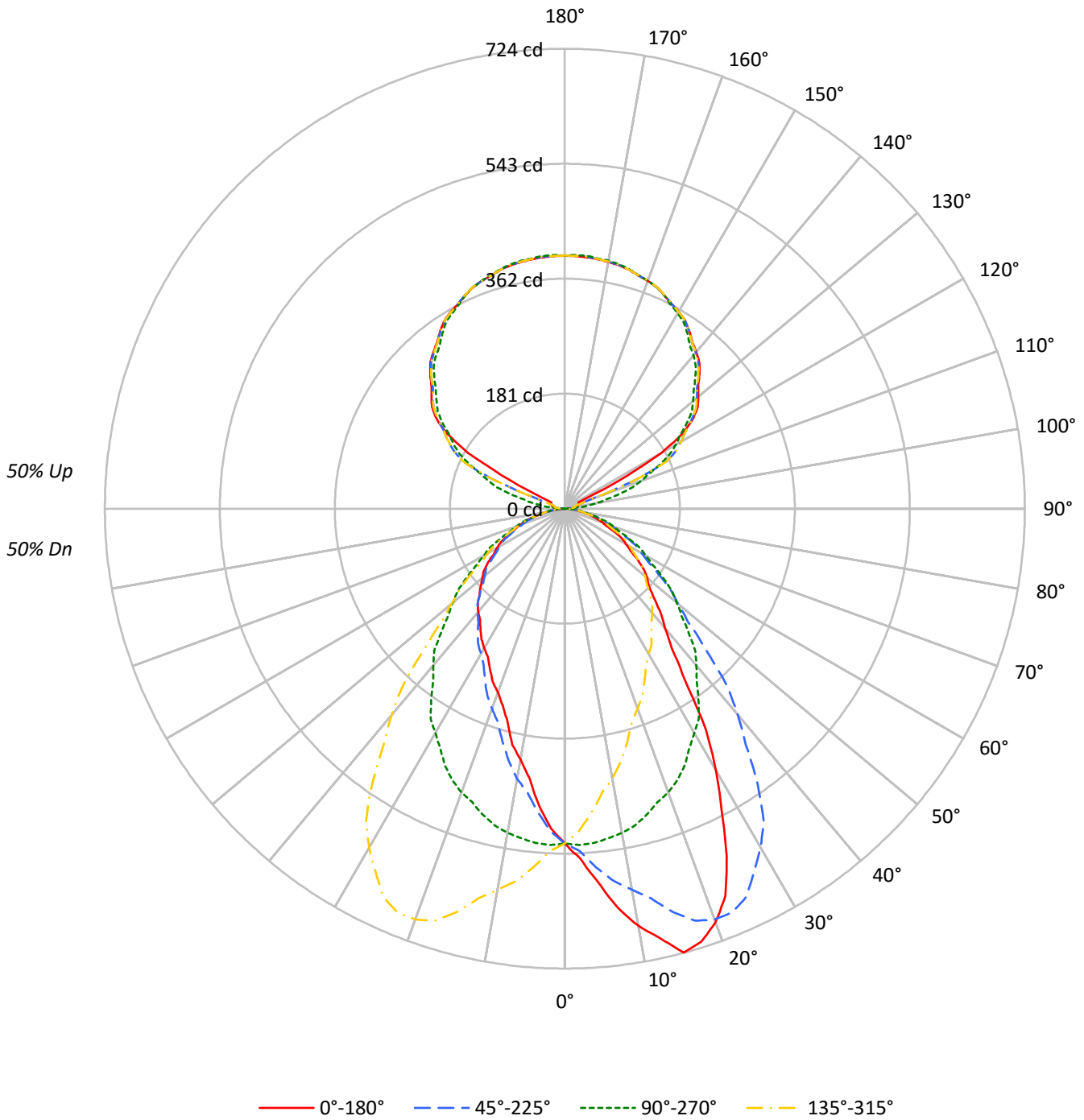
Lumens per Lamp: N/A
Luminaire Lumens: 2331.5 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48	43
2	90	83	77	72	83	77	72	67	65	61	58	55	52	50	45	43	41	37
3	82	73	66	60	76	68	62	57	58	53	49	49	45	43	40	38	36	32
4	75	65	57	52	69	60	54	49	52	47	43	44	40	37	36	33	31	28
5	69	58	50	45	64	54	47	42	47	41	37	39	35	32	33	30	28	24
6	64	52	45	39	59	49	42	37	42	37	33	36	32	28	30	27	24	22
7	59	47	40	34	55	44	37	32	38	33	29	33	29	25	28	24	22	19
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20	17
9	52	40	32	27	48	37	30	26	32	27	23	28	24	21	24	20	18	16
10	48	36	29	25	45	34	28	23	30	25	21	26	22	19	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8510	8510	8510	8510
5°	9540	8566	7590	8566
10°	10932	8496	6568	8496
15°	12094	8339	5804	8339
20°	11911	8172	5290	8172
25°	10739	7949	4965	7949
30°	8874	7594	4728	7594
35°	6467	7222	4559	7222
40°	5166	6785	4466	6785
45°	4514	6277	4338	6277
50°	4245	5785	4253	5785
55°	3910	5286	4138	5286
60°	3584	4753	3965	4753
65°	3266	4279	3790	4279
70°	2965	3814	3541	3814
75°	2633	3300	3132	3300
80°	2259	2724	2520	2724
85°	2038	2038	1501	2038



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	2.2
10°-20°	145.9	6.3
20°-30°	211.8	9.1
30°-40°	223.5	9.6
40°-50°	197.9	8.5
50°-60°	157.9	6.8
60°-70°	107.3	4.6
70°-80°	55.0	2.4
80°-90°	14.2	0.6
90°-100°	13.3	0.6
100°-110°	48.7	2.1
110°-120°	130.3	5.6
120°-130°	215.1	9.2
130°-140°	228.7	9.8
140°-150°	212.6	9.1
150°-160°	170.9	7.3
160°-170°	110.1	4.7
170°-180°	37.9	1.6
0°-30°	407.9	17.5
0°-40°	631.4	27.1
0°-60°	987.2	42.3
0°-90°	1163.8	49.9
90°-120°	192.3	8.2
90°-150°	848.7	36.4
90°-180°	1168.0	50.1
0°-180°	2331.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	527	527	527	527	527	
5°	589	528	468	528	589	59
15°	724	499	347	499	724	200
25°	603	446	279	446	603	272
35°	328	366	231	366	328	213
45°	198	275	190	275	198	155
55°	139	188	147	188	139	125
65°	86	112	99	112	86	85
75°	42	53	50	53	42	45
85°	11	11	8	11	11	12
90°	8	0	8	0	8	4
95°	12	19	12	19	12	12
105°	22	88	22	88	22	23
115°	24	166	24	166	24	59
125°	246	234	246	234	246	213
135°	300	290	300	290	300	231
145°	342	336	342	336	342	214
155°	371	370	371	370	371	171
165°	390	390	390	390	390	110
175°	397	399	397	399	397	38
180°	398	398	398	398	398	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	551.3	551.5	551.9	549.3	548.9	548.9	546.7	544.7	542.4	539.4	539.8
5°	588.6	590.8	591.7	589.2	585.6	585.2	581.8	576.1	570.8	566.6	563.6
7.5°	633.1	634.0	632.0	628.8	626.2	621.3	614.8	608.6	599.8	591.7	585.8
10°	666.8	668.1	664.6	660.0	656.1	650.4	641.1	631.6	620.1	608.9	600.0
12.5°	692.4	695.4	691.0	690.5	683.9	676.0	664.9	660.1	643.9	628.4	618.8
15°	723.5	723.4	723.8	719.9	715.1	713.8	702.1	689.3	666.5	657.3	641.5
17.5°	714.5	717.6	719.1	719.0	718.9	718.1	714.3	706.3	694.8	680.0	661.8
20°	693.2	697.2	697.9	702.5	705.2	708.6	710.0	707.8	700.7	688.3	672.5
22.5°	660.1	661.3	663.2	670.4	676.1	684.7	689.2	696.8	694.0	688.0	674.8
25°	602.8	600.8	607.9	611.5	624.7	638.5	648.5	659.3	669.1	674.9	671.1
27.5°	534.0	531.0	541.6	551.3	562.0	576.9	592.4	610.6	625.8	644.9	651.4
30°	476.0	477.9	487.9	498.3	514.5	535.6	553.0	573.0	594.8	616.0	630.8
32.5°	413.5	420.4	426.9	442.7	457.0	480.5	506.0	531.1	558.1	582.3	605.2
35°	328.1	336.3	345.2	356.7	376.7	400.0	425.0	458.8	495.7	528.7	555.8
37.5°	276.3	274.9	280.0	288.4	304.6	323.4	352.1	385.5	428.9	467.7	506.0
40°	245.1	244.3	247.9	255.7	268.0	281.8	306.9	336.3	376.6	424.0	469.6
42.5°	223.7	224.2	226.2	231.7	240.1	251.5	270.3	295.2	332.2	376.8	425.8
45°	197.7	199.1	201.3	204.0	208.8	218.2	228.7	246.6	275.7	313.0	361.1
47.5°	179.0	179.1	181.3	183.6	186.5	191.7	200.4	211.5	232.1	262.4	303.9
50°	169.0	167.6	169.2	170.9	174.0	177.6	183.3	193.9	207.6	232.1	266.8
52.5°	156.6	156.7	158.1	158.8	161.5	165.1	170.3	177.6	190.1	209.3	237.7
55°	138.9	140.0	140.8	142.0	144.5	147.0	151.1	156.0	165.7	180.0	201.2
57.5°	122.3	122.7	123.5	125.8	127.3	129.7	133.6	138.0	144.4	155.0	170.9
60°	111.0	111.0	112.6	113.6	115.7	118.1	121.1	125.4	131.1	139.7	152.6
62.5°	100.7	100.5	101.1	102.8	104.3	106.6	109.6	113.2	118.6	126.4	136.8
65°	85.5	85.1	86.3	86.7	88.3	90.5	93.0	96.8	101.1	106.7	116.1
67.5°	70.9	71.4	72.1	72.8	73.7	76.1	77.7	80.3	84.0	88.7	95.0
70°	62.8	62.8	62.8	63.4	64.6	65.8	67.4	69.6	73.1	77.1	82.8
72.5°	53.7	54.4	55.0	54.7	56.2	56.9	58.9	60.1	63.4	66.0	71.0
75°	42.2	42.2	42.2	43.2	43.8	44.3	45.6	46.8	48.4	51.6	54.3
77.5°	31.5	31.4	31.6	31.8	32.5	33.2	33.5	34.6	36.1	37.6	39.9
80°	24.3	24.7	24.9	25.3	25.3	25.7	25.9	27.4	28.4	29.3	30.8
82.5°	18.8	18.9	18.9	19.0	19.2	19.4	20.0	20.4	20.8	21.6	22.6
85°	11.0	10.7	10.7	11.1	11.0	11.0	11.3	11.8	11.8	11.9	12.6
87.5°	5.8	5.7	5.9	5.7	5.7	5.8	5.7	5.5	5.6	5.7	5.7
90°	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4	6.1	5.8	5.3
92.5°	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0	6.9	6.7	6.4
95°	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9	11.6	11.2	10.8
97.5°	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6	15.3	15.1	14.0
100°	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5	16.9	16.4	15.3
102.5°	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2	17.6	16.9	26.0
105°	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0	18.3	17.6	35.0
107.5°	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2	23.9	24.6	45.6
110°	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6	44.1	50.5	68.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5	103.9	127.2	131.8
115°	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6	148.2	177.9	176.3
117.5°	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7	189.8	197.1	195.9
120°	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9	212.1	211.3	210.2
122.5°	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9	225.4	225.0	223.7
125°	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5	244.1	243.6	242.4
127.5°	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8	261.1	260.5	259.6
130°	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7	272.0	271.3	270.6
132.5°	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4	282.8	282.1	281.4
135°	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5	297.9	297.3	296.7
137.5°	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6	312.0	311.4	310.8
140°	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7	321.2	320.6	319.9
142.5°	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2	329.7	329.1	328.3
145°	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0	341.5	341.1	340.0
147.5°	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2	351.9	351.6	350.5
150°	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6	358.2	357.8	356.8
152.5°	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4	363.9	363.6	362.6
155°	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1	371.8	371.3	370.6
157.5°	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7	378.3	377.8	377.3
160°	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5	382.1	381.7	381.4
162.5°	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0	385.7	385.2	384.9
165°	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4	389.9	389.5	389.3
167.5°	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0	393.6	393.2	393.0
170°	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9	395.5	395.0	394.8
172.5°	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3	396.8	396.4	396.3
175°	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8	398.3	397.9	397.8
177.5°	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0	398.6	398.2	398.1
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	540.8	539.6	538.8	535.8	533.2	530.7	529.9	530.1	526.6	523.2	521.7
5°	562.0	557.9	554.0	548.6	542.1	534.9	531.4	528.5	521.4	513.7	509.3
7.5°	580.8	575.0	567.6	557.3	547.9	536.7	529.6	523.3	513.0	502.1	495.4
10°	592.3	584.4	574.9	562.3	550.8	537.2	527.7	518.2	506.0	493.0	484.9
12.5°	602.2	591.6	582.2	566.1	552.4	535.4	524.1	510.7	497.9	482.5	474.6
15°	625.7	606.1	588.3	570.0	553.2	529.5	516.9	498.9	482.1	463.1	454.0
17.5°	643.9	621.8	593.8	570.6	551.0	524.7	506.3	484.7	464.8	443.1	430.7
20°	654.2	628.9	598.8	571.2	547.8	517.7	497.7	475.6	452.4	427.8	414.5
22.5°	660.4	633.8	604.0	568.8	541.3	512.1	486.9	462.6	439.1	412.6	398.6
25°	662.4	638.1	606.5	566.8	533.2	500.2	469.8	446.2	417.7	393.0	372.6
27.5°	652.7	635.3	604.9	562.9	523.8	485.2	451.3	424.7	394.6	367.7	347.1
30°	640.9	630.8	601.2	559.1	516.3	474.8	437.6	407.3	377.4	350.3	329.1
32.5°	622.6	620.5	594.4	553.6	508.4	461.7	423.1	392.6	359.4	332.7	312.6
35°	586.7	596.4	580.0	541.3	493.5	443.0	401.3	366.4	332.0	306.5	287.7
37.5°	538.4	562.6	558.3	523.3	473.2	422.7	376.6	340.2	307.4	281.6	263.1
40°	505.2	536.0	540.5	509.4	459.1	407.0	358.1	321.9	289.9	266.4	247.7
42.5°	469.6	505.5	517.7	492.9	443.4	390.4	341.6	304.1	272.3	249.5	233.0
45°	409.8	457.4	479.5	465.3	417.5	363.2	313.0	274.9	246.1	224.6	211.9
47.5°	353.9	405.9	435.6	430.6	388.6	334.8	285.2	248.6	220.6	203.5	192.1
50°	314.4	367.8	403.7	405.4	367.8	314.6	264.7	230.3	204.6	188.6	179.2
52.5°	280.0	331.1	370.1	378.8	344.6	293.6	246.5	212.1	189.5	174.8	166.5
55°	235.1	278.3	321.6	337.5	310.1	261.5	217.9	187.8	166.5	156.4	149.1
57.5°	195.6	231.5	271.5	289.0	272.2	230.5	189.7	163.5	146.2	137.3	131.7
60°	174.6	203.0	238.6	259.5	244.9	207.9	172.2	147.2	133.0	125.2	119.9
62.5°	155.2	180.3	210.4	229.5	221.6	186.6	154.7	132.7	120.5	113.1	109.2
65°	128.0	147.8	171.2	188.8	183.5	157.0	130.8	112.0	102.3	96.4	93.4
67.5°	105.4	119.8	135.9	151.3	147.1	128.3	107.4	92.6	85.4	80.3	78.5
70°	91.1	102.1	116.5	128.9	125.4	110.0	93.4	80.8	74.5	70.3	68.5
72.5°	77.6	86.5	97.6	107.6	105.3	92.5	78.6	69.2	64.3	60.4	58.9
75°	58.6	65.5	72.1	78.8	78.2	68.3	60.2	52.9	49.0	46.0	45.4
77.5°	43.2	47.1	51.6	55.6	54.5	48.8	42.4	38.3	35.5	33.4	33.1
80°	33.0	35.2	38.5	41.3	39.9	37.5	32.4	29.3	27.4	25.3	24.5
82.5°	24.0	26.1	28.1	29.7	28.5	26.3	23.2	21.1	19.9	18.5	18.2
85°	12.6	13.7	14.6	15.0	14.6	13.2	11.8	11.0	9.9	9.3	9.1
87.5°	5.8	5.7	5.6	5.8	5.2	5.1	4.3	3.7	3.6	3.6	3.4
90°	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3	1.0	1.7	2.4
92.5°	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8	5.8	5.7	5.6
95°	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7	16.6	14.5	12.4
97.5°	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2	31.2	25.2	19.4
100°	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0	42.3	33.4	24.7
102.5°	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3	64.4	62.5	60.7
105°	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7	89.5	91.5	93.5
107.5°	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0	113.6	115.1	116.7
110°	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7	129.0	130.5	131.8



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5	143.7	144.9	146.1
115°	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8	166.8	168.0	169.1
117.5°	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6	187.8	189.0	190.3
120°	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8	202.8	203.8	204.7
122.5°	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7	215.8	216.8	217.8
125°	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4	235.2	236.0	236.9
127.5°	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2	253.2	254.0	255.0
130°	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5	264.6	265.6	266.6
132.5°	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1	275.9	276.8	277.7
135°	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1	291.1	292.1	293.1
137.5°	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2	305.9	306.7	307.4
140°	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1	315.7	316.1	316.6
142.5°	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4	323.9	324.3	324.9
145°	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4	336.4	336.4	336.3
147.5°	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9	347.6	347.3	347.1
150°	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2	354.7	354.3	353.8
152.5°	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4	361.0	360.4	359.9
155°	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5	369.9	369.3	368.7
157.5°	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6	377.1	376.6	376.1
160°	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	381.4	380.9	380.6
162.5°	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4	385.0	384.7	384.2
165°	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4	390.0	389.6	389.2
167.5°	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0	393.7	393.3	392.9
170°	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2	395.7	395.4	395.0
172.5°	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5	397.2	396.7	396.4
175°	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3	398.9	398.4	398.0
177.5°	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6	399.2	398.9	398.5
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	520.1	519.2	515.8	514.0	511.0	508.3	506.5	507.3	507.9	507.7	507.1
5°	505.2	501.3	495.4	490.4	486.8	480.1	477.2	475.8	474.6	473.2	471.8
7.5°	487.4	481.3	473.0	465.7	459.0	450.6	445.9	443.1	440.1	436.9	434.1
10°	474.8	466.3	457.4	447.3	439.2	431.7	425.0	420.5	416.4	412.6	409.8
12.5°	461.5	451.7	440.7	426.9	417.9	407.2	406.2	398.3	392.0	389.6	386.3
15°	440.4	426.6	412.6	396.2	389.1	379.4	373.4	367.2	361.8	357.9	357.0
17.5°	416.3	398.5	384.6	372.8	361.2	351.2	345.6	340.8	336.3	331.2	330.5
20°	398.1	382.6	367.5	357.1	345.2	335.0	328.1	323.3	319.4	316.4	313.8
22.5°	380.7	363.8	349.9	338.7	326.9	318.7	313.3	308.5	305.3	302.0	299.5
25°	352.8	339.7	324.5	311.7	302.0	296.8	292.3	288.3	286.2	284.0	281.2
27.5°	328.5	313.9	299.7	289.8	281.2	276.6	273.4	270.6	268.8	267.4	265.8
30°	311.4	296.6	285.4	275.7	268.6	263.9	261.9	260.3	258.1	257.3	256.5
32.5°	294.8	281.5	272.0	263.5	256.8	253.7	251.9	250.4	248.7	247.9	246.2
35°	271.4	260.3	251.0	246.3	240.9	238.2	236.8	234.8	233.2	232.4	232.1
37.5°	249.4	239.8	233.6	227.7	225.3	223.7	221.8	220.4	219.9	219.8	219.5
40°	235.1	227.3	221.8	217.0	216.0	213.5	211.9	210.7	210.7	210.9	210.7
42.5°	222.2	215.1	210.3	206.1	204.9	203.5	201.8	201.8	202.1	202.8	202.1
45°	202.6	197.5	194.0	192.1	189.8	188.4	188.2	188.8	189.0	189.2	189.8
47.5°	184.5	181.1	178.0	175.8	174.8	174.6	174.3	175.4	176.4	176.7	177.6
50°	173.8	170.0	167.3	165.9	165.1	164.7	165.1	166.3	167.1	168.1	168.7
52.5°	161.8	159.1	157.3	156.1	155.9	156.1	156.1	157.6	158.8	159.3	159.5
55°	145.3	143.2	142.9	141.0	141.8	141.6	142.6	143.4	144.6	145.9	146.1
57.5°	128.7	127.1	126.0	126.2	126.4	127.3	128.1	129.6	130.8	132.2	132.2
60°	117.7	116.9	116.3	116.3	116.6	117.9	118.9	120.3	121.1	122.0	122.5
62.5°	107.6	106.8	106.2	106.6	107.6	108.3	109.5	110.3	111.1	111.9	112.2
65°	91.8	91.4	91.9	92.4	92.6	93.5	95.0	95.6	96.4	96.8	98.3
67.5°	77.1	77.2	77.1	77.7	78.9	79.1	80.4	81.9	82.0	82.8	83.7
70°	67.2	67.7	68.0	68.5	69.5	69.9	70.9	71.5	72.3	72.9	73.6
72.5°	58.1	58.2	58.7	58.6	59.5	60.3	61.2	61.8	62.6	63.4	63.9
75°	44.8	44.8	45.2	45.4	46.4	47.4	47.2	47.6	48.4	49.2	49.7
77.5°	32.7	32.3	32.7	32.9	33.3	34.1	34.2	34.8	35.8	35.5	35.9
80°	24.9	24.3	24.9	25.1	25.1	26.1	26.1	26.6	27.1	26.6	27.1
82.5°	17.7	17.5	17.9	18.0	18.3	18.4	18.6	18.7	19.4	19.1	19.4
85°	8.9	8.7	8.9	8.7	8.9	9.1	9.1	8.9	8.9	9.3	8.7
87.5°	3.4	3.3	3.3	3.4	3.3	3.3	3.1	3.2	3.3	3.0	3.0
90°	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4	6.7	7.0	7.3
92.5°	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0	7.2	7.3	7.5
95°	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9	12.2	12.5	12.7
97.5°	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6	15.8	16.1	16.2
100°	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5	18.0	18.5	18.8
102.5°	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2	18.9	19.5	20.0
105°	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0	19.7	20.4	20.9
107.5°	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2	22.5	21.8	21.5
110°	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6	31.2	24.8	21.8



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5	57.2	33.8	22.2
115°	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6	88.9	59.2	42.1
117.5°	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7	175.5	168.4	157.2
120°	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9	213.7	214.4	210.4
122.5°	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9	226.3	226.8	226.1
125°	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5	245.0	245.4	245.8
127.5°	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8	262.4	263.1	263.4
130°	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7	273.4	274.1	274.5
132.5°	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4	283.9	284.5	284.8
135°	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5	299.2	299.8	300.1
137.5°	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6	313.3	313.9	314.1
140°	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7	322.4	322.9	323.1
142.5°	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2	330.7	331.3	331.4
145°	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0	342.4	342.9	343.0
147.5°	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2	352.6	352.9	352.9
150°	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6	358.9	359.4	359.4
152.5°	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4	364.7	365.1	365.1
155°	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1	372.5	372.9	372.8
157.5°	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7	379.2	379.5	379.5
160°	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5	382.9	383.3	383.3
162.5°	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0	386.5	386.9	386.9
165°	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4	390.8	391.3	391.3
167.5°	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0	394.5	394.9	394.8
170°	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9	396.4	396.8	396.7
172.5°	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3	397.7	398.1	398.1
175°	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8	399.2	399.7	399.6
177.5°	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0	399.3	399.7	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331240-940
 CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	505.5	505.2	505.2	503.7	505.2	505.2	505.5	507.1	507.7	507.9	507.3
5°	469.0	468.3	467.3	468.3	467.3	468.3	469.0	471.8	473.2	474.6	475.8
7.5°	432.7	430.3	430.0	427.6	430.0	430.3	432.7	434.1	436.9	440.1	443.1
10°	406.4	404.7	404.5	400.6	404.5	404.7	406.4	409.8	412.6	416.4	420.5
12.5°	386.3	382.4	383.2	380.9	383.2	382.4	386.3	386.3	389.6	392.0	398.3
15°	351.4	351.4	350.6	347.2	350.6	351.4	351.4	357.0	357.9	361.8	367.2
17.5°	326.5	326.0	324.1	325.1	324.1	326.0	326.5	330.5	331.2	336.3	340.8
20°	311.6	310.3	307.9	307.9	307.9	310.3	311.6	313.8	316.4	319.4	323.3
22.5°	297.5	297.4	294.8	295.6	294.8	297.4	297.5	299.5	302.0	305.3	308.5
25°	281.0	279.4	278.1	278.7	278.1	279.4	281.0	281.2	284.0	286.2	288.3
27.5°	265.3	264.4	264.3	262.7	264.3	264.4	265.3	265.8	267.4	268.8	270.6
30°	256.3	254.2	254.6	253.6	254.6	254.2	256.3	256.5	257.3	258.1	260.3
32.5°	245.8	245.1	244.8	243.9	244.8	245.1	245.8	246.2	247.9	248.7	250.4
35°	231.8	231.9	231.0	231.3	231.0	231.9	231.8	232.1	232.4	233.2	234.8
37.5°	219.4	220.0	219.5	219.6	219.5	220.0	219.4	219.5	219.8	219.9	220.4
40°	211.2	211.2	211.2	211.9	211.2	211.2	211.2	210.7	210.9	210.7	210.7
42.5°	203.5	203.1	202.9	202.8	202.9	203.1	203.5	202.1	202.8	202.1	201.8
45°	190.2	190.8	191.0	190.0	191.0	190.8	190.2	189.8	189.2	189.0	188.8
47.5°	178.2	178.3	178.2	179.1	178.2	178.3	178.2	177.6	176.7	176.4	175.4
50°	169.8	169.3	169.8	169.3	169.8	169.3	169.8	168.7	168.1	167.1	166.3
52.5°	160.9	161.0	160.7	160.6	160.7	161.0	160.9	159.5	159.3	158.8	157.6
55°	146.9	147.2	147.0	147.0	147.0	147.2	146.9	146.1	145.9	144.6	143.4
57.5°	132.4	132.8	133.0	132.2	133.0	132.8	132.4	132.2	132.2	130.8	129.6
60°	122.3	123.3	123.1	122.8	123.1	123.3	122.3	122.5	122.0	121.1	120.3
62.5°	113.1	113.5	113.4	113.3	113.4	113.5	113.1	112.2	111.9	111.1	110.3
65°	98.9	99.2	98.6	99.2	98.6	99.2	98.9	98.3	96.8	96.4	95.6
67.5°	83.5	83.6	84.1	84.4	84.1	83.6	83.5	83.7	82.8	82.0	81.9
70°	73.9	73.7	74.4	75.0	74.4	73.7	73.9	73.6	72.9	72.3	71.5
72.5°	63.8	64.3	64.1	64.6	64.1	64.3	63.8	63.9	63.4	62.6	61.8
75°	49.2	49.8	49.7	50.2	49.7	49.8	49.2	49.7	49.2	48.4	47.6
77.5°	35.6	35.7	35.6	35.9	35.6	35.7	35.6	35.9	35.5	35.8	34.8
80°	27.1	26.8	26.3	27.1	26.3	26.8	27.1	27.1	26.6	27.1	26.6
82.5°	18.9	19.1	18.7	18.7	18.7	19.1	18.9	19.4	19.1	19.4	18.7
85°	8.7	8.5	8.1	8.1	8.1	8.5	8.7	8.7	9.3	8.9	8.9
87.5°	3.1	2.9	3.0	2.9	3.0	2.9	3.1	3.0	3.0	3.3	3.2
90°	7.4	7.5	7.7	7.8	7.7	7.5	7.4	7.3	7.0	6.7	6.4
92.5°	7.6	7.7	7.7	7.8	7.7	7.7	7.6	7.5	7.3	7.2	7.0
95°	12.6	12.5	12.5	12.4	12.5	12.5	12.6	12.7	12.5	12.2	11.9
97.5°	16.3	16.4	16.5	16.6	16.5	16.4	16.3	16.2	16.1	15.8	15.6
100°	18.9	19.1	19.2	19.4	19.2	19.1	18.9	18.8	18.5	18.0	17.5
102.5°	20.2	20.3	20.5	20.7	20.5	20.3	20.2	20.0	19.5	18.9	18.2
105°	21.1	21.4	21.7	21.9	21.7	21.4	21.1	20.9	20.4	19.7	19.0
107.5°	21.8	22.0	22.3	22.6	22.3	22.0	21.8	21.5	21.8	22.5	23.2
110°	22.0	22.3	22.6	22.7	22.6	22.3	22.0	21.8	24.8	31.2	37.6



TEST NUMBER: P331240-940
 CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	22.4	22.6	22.8	23.0	22.8	22.6	22.4	22.2	33.8	57.2	80.5
115°	37.5	32.9	28.3	23.6	28.3	32.9	37.5	42.1	59.2	88.9	118.6
117.5°	142.0	126.9	111.7	96.6	111.7	126.9	142.0	157.2	168.4	175.5	182.7
120°	201.8	193.1	184.5	175.8	184.5	193.1	201.8	210.4	214.4	213.7	212.9
122.5°	224.5	222.8	221.1	219.5	221.1	222.8	224.5	226.1	226.8	226.3	225.9
125°	245.9	246.1	246.3	246.5	246.3	246.1	245.9	245.8	245.4	245.0	244.5
127.5°	263.5	263.5	263.5	263.6	263.5	263.5	263.5	263.4	263.1	262.4	261.8
130°	274.4	274.3	274.3	274.2	274.3	274.3	274.4	274.5	274.1	273.4	272.7
132.5°	284.7	284.7	284.6	284.5	284.6	284.7	284.7	284.8	284.5	283.9	283.4
135°	300.0	299.8	299.7	299.5	299.7	299.8	300.0	300.1	299.8	299.2	298.5
137.5°	313.9	313.7	313.4	313.3	313.4	313.7	313.9	314.1	313.9	313.3	312.6
140°	322.7	322.4	322.1	321.7	322.1	322.4	322.7	323.1	322.9	322.4	321.7
142.5°	331.0	330.7	330.4	330.0	330.4	330.7	331.0	331.4	331.3	330.7	330.2
145°	342.6	342.3	342.0	341.6	342.0	342.3	342.6	343.0	342.9	342.4	342.0
147.5°	352.7	352.4	352.1	351.9	352.1	352.4	352.7	352.9	352.9	352.6	352.2
150°	359.1	358.7	358.4	358.1	358.4	358.7	359.1	359.4	359.4	358.9	358.6
152.5°	364.6	364.3	363.8	363.4	363.8	364.3	364.6	365.1	365.1	364.7	364.4
155°	372.3	371.8	371.3	370.8	371.3	371.8	372.3	372.8	372.9	372.5	372.1
157.5°	379.0	378.5	378.0	377.6	378.0	378.5	379.0	379.5	379.5	379.2	378.7
160°	382.8	382.4	381.9	381.5	381.9	382.4	382.8	383.3	383.3	382.9	382.5
162.5°	386.3	385.8	385.2	384.7	385.2	385.8	386.3	386.9	386.9	386.5	386.0
165°	390.8	390.4	389.9	389.5	389.9	390.4	390.8	391.3	391.3	390.8	390.4
167.5°	394.3	393.7	393.2	392.5	393.2	393.7	394.3	394.8	394.9	394.5	394.0
170°	396.2	395.6	395.0	394.4	395.0	395.6	396.2	396.7	396.8	396.4	395.9
172.5°	397.5	397.0	396.4	395.8	396.4	397.0	397.5	398.1	398.1	397.7	397.3
175°	399.0	398.3	397.6	397.0	397.6	398.3	399.0	399.6	399.7	399.2	398.8
177.5°	399.1	398.7	398.2	397.8	398.2	398.7	399.1	399.6	399.7	399.3	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	506.5	508.3	511.0	514.0	515.8	519.2	520.1	521.7	523.2	526.6	530.1
5°	477.2	480.1	486.8	490.4	495.4	501.3	505.2	509.3	513.7	521.4	528.5
7.5°	445.9	450.6	459.0	465.7	473.0	481.3	487.4	495.4	502.1	513.0	523.3
10°	425.0	431.7	439.2	447.3	457.4	466.3	474.8	484.9	493.0	506.0	518.2
12.5°	406.2	407.2	417.9	426.9	440.7	451.7	461.5	474.6	482.5	497.9	510.7
15°	373.4	379.4	389.1	396.2	412.6	426.6	440.4	454.0	463.1	482.1	498.9
17.5°	345.6	351.2	361.2	372.8	384.6	398.5	416.3	430.7	443.1	464.8	484.7
20°	328.1	335.0	345.2	357.1	367.5	382.6	398.1	414.5	427.8	452.4	475.6
22.5°	313.3	318.7	326.9	338.7	349.9	363.8	380.7	398.6	412.6	439.1	462.6
25°	292.3	296.8	302.0	311.7	324.5	339.7	352.8	372.6	393.0	417.7	446.2
27.5°	273.4	276.6	281.2	289.8	299.7	313.9	328.5	347.1	367.7	394.6	424.7
30°	261.9	263.9	268.6	275.7	285.4	296.6	311.4	329.1	350.3	377.4	407.3
32.5°	251.9	253.7	256.8	263.5	272.0	281.5	294.8	312.6	332.7	359.4	392.6
35°	236.8	238.2	240.9	246.3	251.0	260.3	271.4	287.7	306.5	332.0	366.4
37.5°	221.8	223.7	225.3	227.7	233.6	239.8	249.4	263.1	281.6	307.4	340.2
40°	211.9	213.5	216.0	217.0	221.8	227.3	235.1	247.7	266.4	289.9	321.9
42.5°	201.8	203.5	204.9	206.1	210.3	215.1	222.2	233.0	249.5	272.3	304.1
45°	188.2	188.4	189.8	192.1	194.0	197.5	202.6	211.9	224.6	246.1	274.9
47.5°	174.3	174.6	174.8	175.8	178.0	181.1	184.5	192.1	203.5	220.6	248.6
50°	165.1	164.7	165.1	165.9	167.3	170.0	173.8	179.2	188.6	204.6	230.3
52.5°	156.1	156.1	155.9	156.1	157.3	159.1	161.8	166.5	174.8	189.5	212.1
55°	142.6	141.6	141.8	141.0	142.9	143.2	145.3	149.1	156.4	166.5	187.8
57.5°	128.1	127.3	126.4	126.2	126.0	127.1	128.7	131.7	137.3	146.2	163.5
60°	118.9	117.9	116.6	116.3	116.3	116.9	117.7	119.9	125.2	133.0	147.2
62.5°	109.5	108.3	107.6	106.6	106.2	106.8	107.6	109.2	113.1	120.5	132.7
65°	95.0	93.5	92.6	92.4	91.9	91.4	91.8	93.4	96.4	102.3	112.0
67.5°	80.4	79.1	78.9	77.7	77.1	77.2	77.1	78.5	80.3	85.4	92.6
70°	70.9	69.9	69.5	68.5	68.0	67.7	67.2	68.5	70.3	74.5	80.8
72.5°	61.2	60.3	59.5	58.6	58.7	58.2	58.1	58.9	60.4	64.3	69.2
75°	47.2	47.4	46.4	45.4	45.2	44.8	44.8	45.4	46.0	49.0	52.9
77.5°	34.2	34.1	33.3	32.9	32.7	32.3	32.7	33.1	33.4	35.5	38.3
80°	26.1	26.1	25.1	25.1	24.9	24.3	24.9	24.5	25.3	27.4	29.3
82.5°	18.6	18.4	18.3	18.0	17.9	17.5	17.7	18.2	18.5	19.9	21.1
85°	9.1	9.1	8.9	8.7	8.9	8.7	8.9	9.1	9.3	9.9	11.0
87.5°	3.1	3.3	3.3	3.4	3.3	3.3	3.4	3.4	3.6	3.6	3.7
90°	6.1	5.8	5.3	4.7	4.2	3.7	3.1	2.4	1.7	1.0	0.3
92.5°	6.9	6.7	6.4	6.2	5.9	5.7	5.5	5.6	5.7	5.8	5.8
95°	11.6	11.2	10.8	10.3	9.9	9.5	10.3	12.4	14.5	16.6	18.7
97.5°	15.3	15.1	14.0	12.9	11.9	10.9	13.4	19.4	25.2	31.2	37.2
100°	16.9	16.4	15.3	14.3	13.2	12.0	16.0	24.7	33.4	42.3	51.0
102.5°	17.6	16.9	26.0	35.1	44.2	53.3	58.9	60.7	62.5	64.4	66.3
105°	18.3	17.6	35.0	52.6	70.1	87.6	95.3	93.5	91.5	89.5	87.7
107.5°	23.9	24.6	45.6	66.6	87.6	108.5	118.2	116.7	115.1	113.6	112.0
110°	44.1	50.5	68.9	87.5	106.0	124.5	133.1	131.8	130.5	129.0	127.7



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	103.9	127.2	131.8	136.4	141.0	145.5	147.2	146.1	144.9	143.7	142.5
115°	148.2	177.9	176.3	174.7	173.1	171.5	170.1	169.1	168.0	166.8	165.8
117.5°	189.8	197.1	195.9	194.8	193.8	192.6	191.5	190.3	189.0	187.8	186.6
120°	212.1	211.3	210.2	209.0	207.9	206.7	205.6	204.7	203.8	202.8	201.8
122.5°	225.4	225.0	223.7	222.4	221.1	219.9	218.8	217.8	216.8	215.8	214.7
125°	244.1	243.6	242.4	241.2	240.0	238.8	237.7	236.9	236.0	235.2	234.4
127.5°	261.1	260.5	259.6	258.7	257.7	256.8	255.9	255.0	254.0	253.2	252.2
130°	272.0	271.3	270.6	269.9	269.2	268.5	267.6	266.6	265.6	264.6	263.5
132.5°	282.8	282.1	281.4	280.7	280.0	279.3	278.6	277.7	276.8	275.9	275.1
135°	297.9	297.3	296.7	296.1	295.5	295.0	294.2	293.1	292.1	291.1	290.1
137.5°	312.0	311.4	310.8	310.0	309.4	308.8	308.1	307.4	306.7	305.9	305.2
140°	321.2	320.6	319.9	319.2	318.5	317.8	317.2	316.6	316.1	315.7	315.1
142.5°	329.7	329.1	328.3	327.5	326.7	325.9	325.3	324.9	324.3	323.9	323.4
145°	341.5	341.1	340.0	338.9	337.8	336.7	336.2	336.3	336.4	336.4	336.4
147.5°	351.9	351.6	350.5	349.5	348.3	347.2	346.9	347.1	347.3	347.6	347.9
150°	358.2	357.8	356.8	355.8	354.7	353.7	353.4	353.8	354.3	354.7	355.2
152.5°	363.9	363.6	362.6	361.6	360.6	359.6	359.4	359.9	360.4	361.0	361.4
155°	371.8	371.3	370.6	369.8	369.1	368.3	368.2	368.7	369.3	369.9	370.5
157.5°	378.3	377.8	377.3	376.7	376.2	375.7	375.6	376.1	376.6	377.1	377.6
160°	382.1	381.7	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7
162.5°	385.7	385.2	384.9	384.5	384.1	383.9	383.9	384.2	384.7	385.0	385.4
165°	389.9	389.5	389.3	389.1	389.0	388.8	388.9	389.2	389.6	390.0	390.4
167.5°	393.6	393.2	393.0	392.8	392.6	392.4	392.5	392.9	393.3	393.7	394.0
170°	395.5	395.0	394.8	394.8	394.6	394.5	394.6	395.0	395.4	395.7	396.2
172.5°	396.8	396.4	396.3	396.1	396.0	395.8	396.0	396.4	396.7	397.2	397.5
175°	398.3	397.9	397.8	397.6	397.5	397.3	397.5	398.0	398.4	398.9	399.3
177.5°	398.6	398.2	398.1	398.1	398.1	398.1	398.1	398.5	398.9	399.2	399.6
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	529.9	530.7	533.2	535.8	538.8	539.6	540.8	539.8	539.4	542.4	544.7
5°	531.4	534.9	542.1	548.6	554.0	557.9	562.0	563.6	566.6	570.8	576.1
7.5°	529.6	536.7	547.9	557.3	567.6	575.0	580.8	585.8	591.7	599.8	608.6
10°	527.7	537.2	550.8	562.3	574.9	584.4	592.3	600.0	608.9	620.1	631.6
12.5°	524.1	535.4	552.4	566.1	582.2	591.6	602.2	618.8	628.4	643.9	660.1
15°	516.9	529.5	553.2	570.0	588.3	606.1	625.7	641.5	657.3	666.5	689.3
17.5°	506.3	524.7	551.0	570.6	593.8	621.8	643.9	661.8	680.0	694.8	706.3
20°	497.7	517.7	547.8	571.2	598.8	628.9	654.2	672.5	688.3	700.7	707.8
22.5°	486.9	512.1	541.3	568.8	604.0	633.8	660.4	674.8	688.0	694.0	696.8
25°	469.8	500.2	533.2	566.8	606.5	638.1	662.4	671.1	674.9	669.1	659.3
27.5°	451.3	485.2	523.8	562.9	604.9	635.3	652.7	651.4	644.9	625.8	610.6
30°	437.6	474.8	516.3	559.1	601.2	630.8	640.9	630.8	616.0	594.8	573.0
32.5°	423.1	461.7	508.4	553.6	594.4	620.5	622.6	605.2	582.3	558.1	531.1
35°	401.3	443.0	493.5	541.3	580.0	596.4	586.7	555.8	528.7	495.7	458.8
37.5°	376.6	422.7	473.2	523.3	558.3	562.6	538.4	506.0	467.7	428.9	385.5
40°	358.1	407.0	459.1	509.4	540.5	536.0	505.2	469.6	424.0	376.6	336.3
42.5°	341.6	390.4	443.4	492.9	517.7	505.5	469.6	425.8	376.8	332.2	295.2
45°	313.0	363.2	417.5	465.3	479.5	457.4	409.8	361.1	313.0	275.7	246.6
47.5°	285.2	334.8	388.6	430.6	435.6	405.9	353.9	303.9	262.4	232.1	211.5
50°	264.7	314.6	367.8	405.4	403.7	367.8	314.4	266.8	232.1	207.6	193.9
52.5°	246.5	293.6	344.6	378.8	370.1	331.1	280.0	237.7	209.3	190.1	177.6
55°	217.9	261.5	310.1	337.5	321.6	278.3	235.1	201.2	180.0	165.7	156.0
57.5°	189.7	230.5	272.2	289.0	271.5	231.5	195.6	170.9	155.0	144.4	138.0
60°	172.2	207.9	244.9	259.5	238.6	203.0	174.6	152.6	139.7	131.1	125.4
62.5°	154.7	186.6	221.6	229.5	210.4	180.3	155.2	136.8	126.4	118.6	113.2
65°	130.8	157.0	183.5	188.8	171.2	147.8	128.0	116.1	106.7	101.1	96.8
67.5°	107.4	128.3	147.1	151.3	135.9	119.8	105.4	95.0	88.7	84.0	80.3
70°	93.4	110.0	125.4	128.9	116.5	102.1	91.1	82.8	77.1	73.1	69.6
72.5°	78.6	92.5	105.3	107.6	97.6	86.5	77.6	71.0	66.0	63.4	60.1
75°	60.2	68.3	78.2	78.8	72.1	65.5	58.6	54.3	51.6	48.4	46.8
77.5°	42.4	48.8	54.5	55.6	51.6	47.1	43.2	39.9	37.6	36.1	34.6
80°	32.4	37.5	39.9	41.3	38.5	35.2	33.0	30.8	29.3	28.4	27.4
82.5°	23.2	26.3	28.5	29.7	28.1	26.1	24.0	22.6	21.6	20.8	20.4
85°	11.8	13.2	14.6	15.0	14.6	13.7	12.6	12.6	11.9	11.8	11.8
87.5°	4.3	5.1	5.2	5.8	5.6	5.7	5.8	5.7	5.7	5.6	5.5
90°	1.0	1.7	2.4	3.1	3.7	4.2	4.7	5.3	5.8	6.1	6.4
92.5°	5.8	5.7	5.6	5.5	5.7	5.9	6.2	6.4	6.7	6.9	7.0
95°	16.6	14.5	12.4	10.3	9.5	9.9	10.3	10.8	11.2	11.6	11.9
97.5°	31.2	25.2	19.4	13.4	10.9	11.9	12.9	14.0	15.1	15.3	15.6
100°	42.3	33.4	24.7	16.0	12.0	13.2	14.3	15.3	16.4	16.9	17.5
102.5°	64.4	62.5	60.7	58.9	53.3	44.2	35.1	26.0	16.9	17.6	18.2
105°	89.5	91.5	93.5	95.3	87.6	70.1	52.6	35.0	17.6	18.3	19.0
107.5°	113.6	115.1	116.7	118.2	108.5	87.6	66.6	45.6	24.6	23.9	23.2
110°	129.0	130.5	131.8	133.1	124.5	106.0	87.5	68.9	50.5	44.1	37.6



TEST NUMBER: P331240-940

CATALOG NUMBER: SA2XXDIP-C290D330U940-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	143.7	144.9	146.1	147.2	145.5	141.0	136.4	131.8	127.2	103.9	80.5
115°	166.8	168.0	169.1	170.1	171.5	173.1	174.7	176.3	177.9	148.2	118.6
117.5°	187.8	189.0	190.3	191.5	192.6	193.8	194.8	195.9	197.1	189.8	182.7
120°	202.8	203.8	204.7	205.6	206.7	207.9	209.0	210.2	211.3	212.1	212.9
122.5°	215.8	216.8	217.8	218.8	219.9	221.1	222.4	223.7	225.0	225.4	225.9
125°	235.2	236.0	236.9	237.7	238.8	240.0	241.2	242.4	243.6	244.1	244.5
127.5°	253.2	254.0	255.0	255.9	256.8	257.7	258.7	259.6	260.5	261.1	261.8
130°	264.6	265.6	266.6	267.6	268.5	269.2	269.9	270.6	271.3	272.0	272.7
132.5°	275.9	276.8	277.7	278.6	279.3	280.0	280.7	281.4	282.1	282.8	283.4
135°	291.1	292.1	293.1	294.2	295.0	295.5	296.1	296.7	297.3	297.9	298.5
137.5°	305.9	306.7	307.4	308.1	308.8	309.4	310.0	310.8	311.4	312.0	312.6
140°	315.7	316.1	316.6	317.2	317.8	318.5	319.2	319.9	320.6	321.2	321.7
142.5°	323.9	324.3	324.9	325.3	325.9	326.7	327.5	328.3	329.1	329.7	330.2
145°	336.4	336.4	336.3	336.2	336.7	337.8	338.9	340.0	341.1	341.5	342.0
147.5°	347.6	347.3	347.1	346.9	347.2	348.3	349.5	350.5	351.6	351.9	352.2
150°	354.7	354.3	353.8	353.4	353.7	354.7	355.8	356.8	357.8	358.2	358.6
152.5°	361.0	360.4	359.9	359.4	359.6	360.6	361.6	362.6	363.6	363.9	364.4
155°	369.9	369.3	368.7	368.2	368.3	369.1	369.8	370.6	371.3	371.8	372.1
157.5°	377.1	376.6	376.1	375.6	375.7	376.2	376.7	377.3	377.8	378.3	378.7
160°	381.4	380.9	380.6	380.2	380.2	380.6	380.9	381.4	381.7	382.1	382.5
162.5°	385.0	384.7	384.2	383.9	383.9	384.1	384.5	384.9	385.2	385.7	386.0
165°	390.0	389.6	389.2	388.9	388.8	389.0	389.1	389.3	389.5	389.9	390.4
167.5°	393.7	393.3	392.9	392.5	392.4	392.6	392.8	393.0	393.2	393.6	394.0
170°	395.7	395.4	395.0	394.6	394.5	394.6	394.8	394.8	395.0	395.5	395.9
172.5°	397.2	396.7	396.4	396.0	395.8	396.0	396.1	396.3	396.4	396.8	397.3
175°	398.9	398.4	398.0	397.5	397.3	397.5	397.6	397.8	397.9	398.3	398.8
177.5°	399.2	398.9	398.5	398.1	398.1	398.1	398.1	398.1	398.2	398.6	399.0
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4	398.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	546.7	548.9	548.9	549.3	551.9	551.5	551.3
5°	581.8	585.2	585.6	589.2	591.7	590.8	588.6
7.5°	614.8	621.3	626.2	628.8	632.0	634.0	633.1
10°	641.1	650.4	656.1	660.0	664.6	668.1	666.8
12.5°	664.9	676.0	683.9	690.5	691.0	695.4	692.4
15°	702.1	713.8	715.1	719.9	723.8	723.4	723.5
17.5°	714.3	718.1	718.9	719.0	719.1	717.6	714.5
20°	710.0	708.6	705.2	702.5	697.9	697.2	693.2
22.5°	689.2	684.7	676.1	670.4	663.2	661.3	660.1
25°	648.5	638.5	624.7	611.5	607.9	600.8	602.8
27.5°	592.4	576.9	562.0	551.3	541.6	531.0	534.0
30°	553.0	535.6	514.5	498.3	487.9	477.9	476.0
32.5°	506.0	480.5	457.0	442.7	426.9	420.4	413.5
35°	425.0	400.0	376.7	356.7	345.2	336.3	328.1
37.5°	352.1	323.4	304.6	288.4	280.0	274.9	276.3
40°	306.9	281.8	268.0	255.7	247.9	244.3	245.1
42.5°	270.3	251.5	240.1	231.7	226.2	224.2	223.7
45°	228.7	218.2	208.8	204.0	201.3	199.1	197.7
47.5°	200.4	191.7	186.5	183.6	181.3	179.1	179.0
50°	183.3	177.6	174.0	170.9	169.2	167.6	169.0
52.5°	170.3	165.1	161.5	158.8	158.1	156.7	156.6
55°	151.1	147.0	144.5	142.0	140.8	140.0	138.9
57.5°	133.6	129.7	127.3	125.8	123.5	122.7	122.3
60°	121.1	118.1	115.7	113.6	112.6	111.0	111.0
62.5°	109.6	106.6	104.3	102.8	101.1	100.5	100.7
65°	93.0	90.5	88.3	86.7	86.3	85.1	85.5
67.5°	77.7	76.1	73.7	72.8	72.1	71.4	70.9
70°	67.4	65.8	64.6	63.4	62.8	62.8	62.8
72.5°	58.9	56.9	56.2	54.7	55.0	54.4	53.7
75°	45.6	44.3	43.8	43.2	42.2	42.2	42.2
77.5°	33.5	33.2	32.5	31.8	31.6	31.4	31.5
80°	25.9	25.7	25.3	25.3	24.9	24.7	24.3
82.5°	20.0	19.4	19.2	19.0	18.9	18.9	18.8
85°	11.3	11.0	11.0	11.1	10.7	10.7	11.0
87.5°	5.7	5.8	5.7	5.7	5.9	5.7	5.8
90°	6.7	7.0	7.3	7.4	7.5	7.7	7.8
92.5°	7.2	7.3	7.5	7.6	7.7	7.7	7.8
95°	12.2	12.5	12.7	12.6	12.5	12.5	12.4
97.5°	15.8	16.1	16.2	16.3	16.4	16.5	16.6
100°	18.0	18.5	18.8	18.9	19.1	19.2	19.4
102.5°	18.9	19.5	20.0	20.2	20.3	20.5	20.7
105°	19.7	20.4	20.9	21.1	21.4	21.7	21.9
107.5°	22.5	21.8	21.5	21.8	22.0	22.3	22.6
110°	31.2	24.8	21.8	22.0	22.3	22.6	22.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	57.2	33.8	22.2	22.4	22.6	22.8	23.0
115°	88.9	59.2	42.1	37.5	32.9	28.3	23.6
117.5°	175.5	168.4	157.2	142.0	126.9	111.7	96.6
120°	213.7	214.4	210.4	201.8	193.1	184.5	175.8
122.5°	226.3	226.8	226.1	224.5	222.8	221.1	219.5
125°	245.0	245.4	245.8	245.9	246.1	246.3	246.5
127.5°	262.4	263.1	263.4	263.5	263.5	263.5	263.6
130°	273.4	274.1	274.5	274.4	274.3	274.3	274.2
132.5°	283.9	284.5	284.8	284.7	284.7	284.6	284.5
135°	299.2	299.8	300.1	300.0	299.8	299.7	299.5
137.5°	313.3	313.9	314.1	313.9	313.7	313.4	313.3
140°	322.4	322.9	323.1	322.7	322.4	322.1	321.7
142.5°	330.7	331.3	331.4	331.0	330.7	330.4	330.0
145°	342.4	342.9	343.0	342.6	342.3	342.0	341.6
147.5°	352.6	352.9	352.9	352.7	352.4	352.1	351.9
150°	358.9	359.4	359.4	359.1	358.7	358.4	358.1
152.5°	364.7	365.1	365.1	364.6	364.3	363.8	363.4
155°	372.5	372.9	372.8	372.3	371.8	371.3	370.8
157.5°	379.2	379.5	379.5	379.0	378.5	378.0	377.6
160°	382.9	383.3	383.3	382.8	382.4	381.9	381.5
162.5°	386.5	386.9	386.9	386.3	385.8	385.2	384.7
165°	390.8	391.3	391.3	390.8	390.4	389.9	389.5
167.5°	394.5	394.9	394.8	394.3	393.7	393.2	392.5
170°	396.4	396.8	396.7	396.2	395.6	395.0	394.4
172.5°	397.7	398.1	398.1	397.5	397.0	396.4	395.8
175°	399.2	399.7	399.6	399.0	398.3	397.6	397.0
177.5°	399.3	399.7	399.6	399.1	398.7	398.2	397.8
180°	398.4	398.4	398.4	398.4	398.4	398.4	398.4

(END OF REPORT)