

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: P331251-940

Luminaire Tested: **SA2XXDIP-C290D530U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331251-940
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-C290D530U940-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

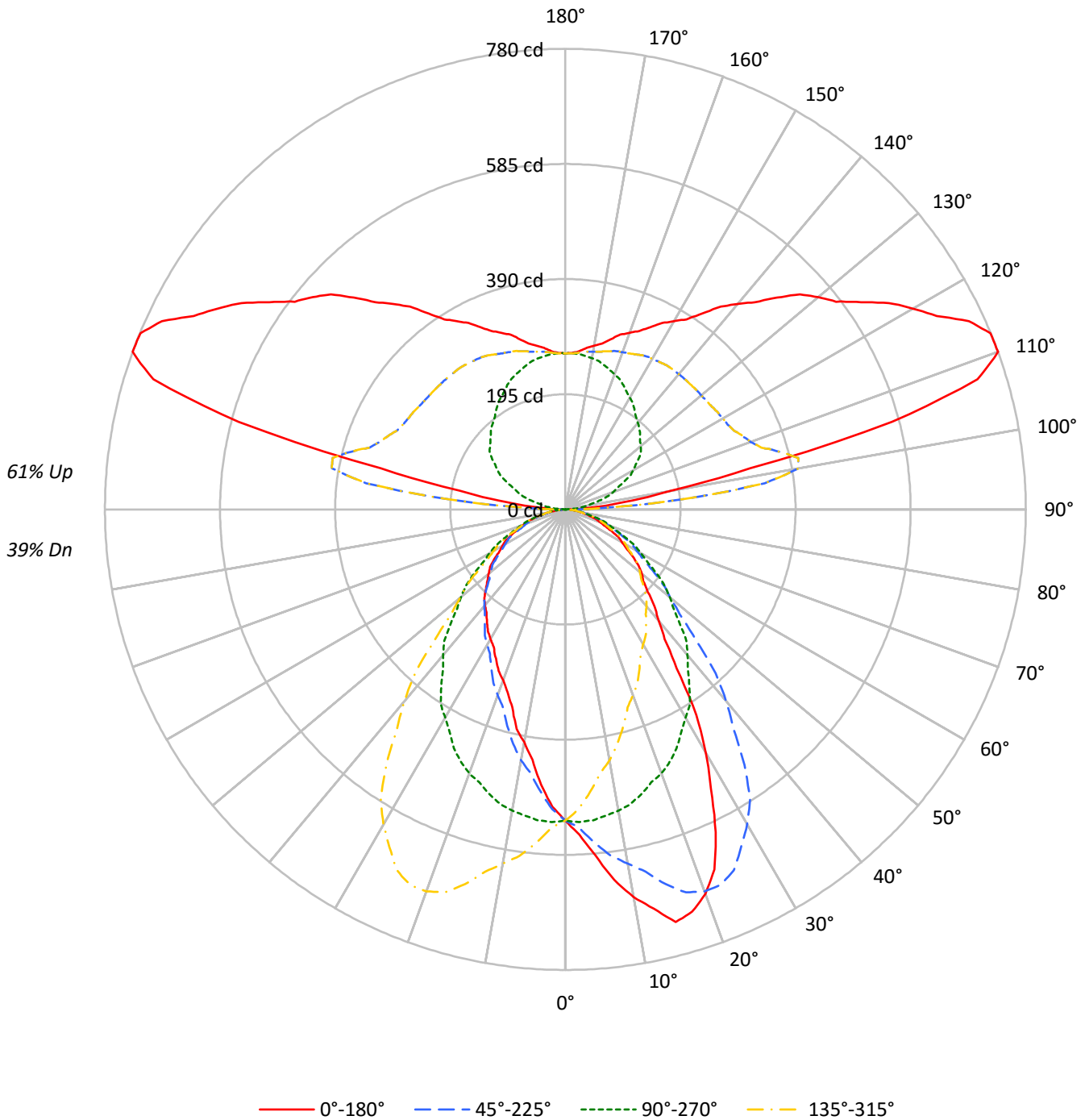
Lumens per Lamp: N/A
Luminaire Lumens: 3005.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	61	61	61	46	46	46	39
1	96	92	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	80	74	70	79	73	68	64	60	57	53	48	45	43	37	35	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	29	27	25	21
5	67	56	48	43	61	51	45	40	43	38	34	34	31	28	27	24	22	19
6	62	50	43	37	56	46	40	35	39	33	30	31	27	25	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	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

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	1.7
10°-20°	145.9	4.9
20°-30°	211.8	7.0
30°-40°	223.5	7.4
40°-50°	197.9	6.6
50°-60°	157.9	5.3
60°-70°	107.3	3.6
70°-80°	55.0	1.8
80°-90°	15.6	0.5
90°-100°	105.7	3.5
100°-110°	358.8	11.9
110°-120°	381.2	12.7
120°-130°	313.8	10.4
130°-140°	252.0	8.4
140°-150°	190.4	6.3
150°-160°	133.8	4.5
160°-170°	78.8	2.6
170°-180°	25.6	0.9
0°-30°	407.9	13.6
0°-40°	631.4	21.0
0°-60°	987.2	32.8
0°-90°	1165.2	38.8
90°-120°	845.7	28.1
90°-150°	1601.9	53.3
90°-180°	1840.0	61.2
0°-180°	3005.3	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°	17	0	17	0	17	10
95°	58	18	58	18	58	75
105°	573	62	573	62	573	555
115°	754	109	754	109	754	738
125°	612	153	612	153	612	553
135°	507	179	507	179	507	394
145°	405	204	405	204	405	257
155°	340	232	340	232	340	159
165°	298	253	298	253	298	85
175°	269	264	269	264	269	26
180°	264	264	264	264	264	



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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°	7.6	7.6	7.8	7.6	7.6	7.7	7.4	7.5	7.8	8.0	8.0
90°	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2	16.8	17.3	16.8
92.5°	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3	55.8	66.1	65.2
95°	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2	174.4	199.4	176.5
97.5°	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9	357.0	340.3	256.3
100°	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3	474.9	401.7	276.6
102.5°	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8	518.9	403.8	268.9
105°	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9	512.1	376.8	253.8
107.5°	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6	467.4	347.9	246.2
110°	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7	439.3	334.1	244.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6	419.8	325.1	245.0
115°	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6	395.7	315.3	247.2
117.5°	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7	380.4	310.5	250.8
120°	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8	372.3	307.6	253.2
122.5°	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9	365.3	306.0	256.1
125°	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9	355.4	303.1	260.4
127.5°	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1	346.3	301.4	264.7
130°	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0	340.2	300.5	268.0
132.5°	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2	335.3	300.1	271.3
135°	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6	328.5	299.5	275.1
137.5°	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7	323.7	299.4	278.6
140°	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8	320.9	299.0	280.2
142.5°	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0	318.1	299.0	281.4
145°	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0	314.2	298.0	282.8
147.5°	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9	310.4	296.1	283.1
150°	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3	307.2	295.0	282.8
152.5°	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9	304.3	292.9	282.0
155°	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7	299.0	289.4	280.7
157.5°	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5	294.0	285.7	278.4
160°	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9	290.3	283.3	277.1
162.5°	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5	287.1	281.2	275.9
165°	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8	281.7	277.1	273.6
167.5°	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4	276.4	273.6	271.3
170°	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2	273.6	271.5	270.0
172.5°	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5	270.7	269.1	268.4
175°	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5	267.0	266.4	266.0
177.5°	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6	264.8	264.4	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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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°	7.6	6.9	6.4	6.4	5.7	5.5	4.5	3.7	3.8	4.0	3.9
90°	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5	2.1	4.1	5.1
92.5°	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2	8.9	12.6	14.9
95°	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8	19.8	24.9	29.5
97.5°	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0	31.7	37.1	44.1
100°	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1	40.7	45.3	53.4
102.5°	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5	49.7	54.2	62.3
105°	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1	64.1	67.6	75.3
107.5°	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7	78.3	81.8	88.8
110°	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4	88.5	91.6	98.2



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4	97.5	100.9	107.1
115°	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3	111.9	114.9	121.0
117.5°	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8	125.8	128.9	134.3
120°	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7	134.7	137.8	142.4
122.5°	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2	142.9	146.0	151.0
125°	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6	154.1	157.1	163.3
127.5°	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5	163.5	167.8	174.5
130°	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8	168.8	173.9	181.0
132.5°	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7	174.2	179.6	187.2
135°	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0	181.0	187.2	194.7
137.5°	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9	188.3	194.5	202.6
140°	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2	193.2	199.4	207.5
142.5°	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5	198.1	203.8	212.0
145°	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5	206.4	211.5	219.2
147.5°	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9	214.5	219.4	226.4
150°	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6	220.2	224.3	230.9
152.5°	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4	225.1	229.2	235.0
155°	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4	232.9	235.9	241.6
157.5°	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1	239.6	242.1	246.9
160°	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6	244.1	246.1	250.2
162.5°	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1	247.7	249.8	253.1
165°	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2	252.7	253.8	256.8
167.5°	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5	256.9	257.8	259.8
170°	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4	259.3	259.8	261.4
172.5°	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0	261.4	261.1	262.6
175°	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9	263.4	262.9	263.9
177.5°	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8	264.0	263.6	264.4
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

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°	4.0	4.1	4.5	5.2	5.6	5.5	5.3	5.2	5.0	4.9	5.0
90°	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2	15.2	16.2	16.8
92.5°	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3	38.1	33.8	30.6
95°	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2	102.2	80.9	69.6
97.5°	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9	254.4	199.4	162.6
100°	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3	401.3	331.5	270.0
102.5°	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8	550.5	499.6	434.4
105°	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9	675.3	682.0	665.1
107.5°	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6	666.2	719.1	743.7
110°	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7	637.7	702.8	744.5



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6	604.0	673.5	721.3
115°	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6	557.9	624.5	676.9
117.5°	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7	520.4	580.9	630.0
120°	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8	500.9	554.8	601.1
122.5°	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9	484.6	535.7	577.5
125°	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9	463.2	508.0	546.2
127.5°	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1	442.6	484.7	520.0
130°	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0	428.7	468.9	502.4
132.5°	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2	415.7	452.6	484.1
135°	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6	395.1	428.7	457.2
137.5°	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7	378.8	405.4	430.3
140°	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8	368.2	391.6	413.9
142.5°	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0	358.8	379.0	397.7
145°	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0	346.8	362.6	377.4
147.5°	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9	337.1	349.4	360.2
150°	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3	330.6	341.3	350.4
152.5°	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9	325.3	334.3	342.2
155°	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7	316.8	324.4	330.0
157.5°	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5	308.3	314.7	319.1
160°	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9	302.6	308.2	311.7
162.5°	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5	297.3	302.1	304.8
165°	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8	289.4	292.9	295.0
167.5°	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4	282.1	284.5	286.4
170°	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2	277.7	279.7	280.7
172.5°	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5	273.6	275.2	275.8
175°	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5	269.0	269.6	270.0
177.5°	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6	265.6	266.1	266.1
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

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°	5.0	4.8	4.8	4.6	4.8	4.8	5.0	5.0	4.9	5.0	5.2
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2
92.5°	30.2	28.6	29.0	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3
95°	63.0	59.0	57.4	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2
97.5°	138.3	125.8	118.4	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9
100°	227.8	206.0	191.2	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3
102.5°	388.5	351.2	332.8	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8
105°	633.6	602.1	580.2	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9
107.5°	747.6	745.9	741.5	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6
110°	766.3	776.1	780.6	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	751.7	767.9	776.5	779.3	776.5	767.9	751.7	721.3	673.5	604.0	516.6
115°	712.9	736.4	749.6	754.1	749.6	736.4	712.9	676.9	624.5	557.9	479.6
117.5°	666.8	691.5	705.4	709.3	705.4	691.5	666.8	630.0	580.9	520.4	451.7
120°	636.7	660.6	675.3	680.4	675.3	660.6	636.7	601.1	554.8	500.9	437.8
122.5°	609.4	632.9	646.0	650.3	646.0	632.9	609.4	577.5	535.7	484.6	426.9
125°	575.7	594.9	607.7	611.8	607.7	594.9	575.7	546.2	508.0	463.2	410.9
127.5°	545.6	563.7	574.7	578.0	574.7	563.7	545.6	520.0	484.7	442.6	395.1
130°	527.4	544.7	554.8	558.8	554.8	544.7	527.4	502.4	468.9	428.7	385.0
132.5°	508.6	525.9	535.3	539.0	535.3	525.9	508.6	484.1	452.6	415.7	375.2
135°	479.0	495.8	505.0	507.0	505.0	495.8	479.0	457.2	428.7	395.1	361.6
137.5°	450.1	464.6	472.6	475.6	472.6	464.6	450.1	430.3	405.4	378.8	350.7
140°	430.3	443.4	451.0	454.1	451.0	443.4	430.3	413.9	391.6	368.2	343.8
142.5°	413.1	425.2	431.9	432.6	431.9	425.2	413.1	397.7	379.0	358.8	338.0
145°	389.5	398.1	403.2	404.7	403.2	398.1	389.5	377.4	362.6	346.8	330.0
147.5°	370.2	377.1	380.6	381.5	380.6	377.1	370.2	360.2	349.4	337.1	323.9
150°	358.0	364.1	367.1	367.7	367.1	364.1	358.0	350.4	341.3	330.6	319.3
152.5°	348.2	353.6	355.8	355.9	355.8	353.6	348.2	342.2	334.3	325.3	314.9
155°	335.6	339.2	341.3	340.2	341.3	339.2	335.6	330.0	324.4	316.8	308.7
157.5°	323.0	326.0	326.9	326.9	326.9	326.0	323.0	319.1	314.7	308.3	301.5
160°	315.3	317.8	318.3	318.3	318.3	317.8	315.3	311.7	308.2	302.6	296.9
162.5°	308.4	310.1	310.6	310.2	310.6	310.1	308.4	304.8	302.1	297.3	292.5
165°	296.9	299.0	299.0	298.5	299.0	299.0	296.9	295.0	292.9	289.4	285.8
167.5°	287.3	288.5	288.4	287.8	288.4	288.5	287.3	286.4	284.5	282.1	279.4
170°	281.2	282.8	282.2	281.2	282.2	282.8	281.2	280.7	279.7	277.7	276.2
172.5°	276.3	277.1	276.5	275.9	276.5	277.1	276.3	275.8	275.2	273.6	272.5
175°	270.0	270.5	270.0	269.0	270.0	270.5	270.0	270.0	269.6	269.0	268.5
177.5°	266.1	266.1	265.6	264.8	265.6	266.1	266.1	266.1	266.1	265.6	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

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°	5.3	5.5	5.6	5.2	4.5	4.1	4.0	3.9	4.0	3.8	3.7
90°	16.8	17.3	16.8	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5
92.5°	55.8	66.1	65.2	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2
95°	174.4	199.4	176.5	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8
97.5°	357.0	340.3	256.3	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0
100°	474.9	401.7	276.6	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1
102.5°	518.9	403.8	268.9	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5
105°	512.1	376.8	253.8	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1
107.5°	467.4	347.9	246.2	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7
110°	439.3	334.1	244.6	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	419.8	325.1	245.0	188.7	154.1	132.5	117.3	107.1	100.9	97.5	95.4
115°	395.7	315.3	247.2	197.8	166.8	144.9	131.2	121.0	114.9	111.9	109.3
117.5°	380.4	310.5	250.8	207.6	178.5	158.3	144.0	134.3	128.9	125.8	123.8
120°	372.3	307.6	253.2	214.1	186.6	166.8	152.6	142.4	137.8	134.7	132.7
122.5°	365.3	306.0	256.1	219.8	194.4	175.8	161.1	151.0	146.0	142.9	141.2
125°	355.4	303.1	260.4	228.8	206.0	187.6	173.4	163.3	157.1	154.1	152.6
127.5°	346.3	301.4	264.7	237.3	216.8	198.9	184.3	174.5	167.8	163.5	161.5
130°	340.2	300.5	268.0	242.5	223.3	205.5	191.2	181.0	173.9	168.8	166.8
132.5°	335.3	300.1	271.3	247.9	228.9	212.0	197.7	187.2	179.6	174.2	171.7
135°	328.5	299.5	275.1	254.8	237.0	220.7	206.4	194.7	187.2	181.0	179.0
137.5°	323.7	299.4	278.6	260.0	243.5	227.4	214.2	202.6	194.5	188.3	185.9
140°	320.9	299.0	280.2	262.9	247.2	231.9	218.6	207.5	199.4	193.2	191.2
142.5°	318.1	299.0	281.4	265.4	250.0	235.1	222.7	212.0	203.8	198.1	196.5
145°	314.2	298.0	282.8	268.5	254.2	240.5	229.3	219.2	211.5	206.4	204.5
147.5°	310.4	296.1	283.1	270.3	257.7	244.8	234.9	226.4	219.4	214.5	212.9
150°	307.2	295.0	282.8	271.1	259.3	247.6	238.5	230.9	224.3	220.2	218.6
152.5°	304.3	292.9	282.0	271.4	261.0	250.5	242.2	235.0	229.2	225.1	224.4
155°	299.0	289.4	280.7	272.1	263.4	254.8	247.2	241.6	235.9	232.9	232.4
157.5°	294.0	285.7	278.4	272.1	265.1	257.8	251.5	246.9	242.1	239.6	239.1
160°	290.3	283.3	277.1	272.1	266.0	259.8	254.2	250.2	246.1	244.1	243.6
162.5°	287.1	281.2	275.9	271.6	266.4	261.1	256.7	253.1	249.8	247.7	248.1
165°	281.7	277.1	273.6	270.5	267.0	262.4	259.3	256.8	253.8	252.7	253.2
167.5°	276.4	273.6	271.3	269.8	266.9	263.5	261.6	259.8	257.8	256.9	257.5
170°	273.6	271.5	270.0	269.0	266.4	263.9	262.4	261.4	259.8	259.3	260.4
172.5°	270.7	269.1	268.4	267.8	266.1	264.3	263.2	262.6	261.1	261.4	262.0
175°	267.0	266.4	266.0	266.4	265.5	264.4	263.9	263.9	262.9	263.4	263.9
177.5°	264.8	264.4	264.8	265.6	264.8	264.4	264.4	264.4	263.6	264.0	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

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°	4.5	5.5	5.7	6.4	6.4	6.9	7.6	8.0	8.0	7.8	7.5
90°	2.1	4.1	5.1	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2
92.5°	8.9	12.6	14.9	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3
95°	19.8	24.9	29.5	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2
97.5°	31.7	37.1	44.1	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9
100°	40.7	45.3	53.4	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3
102.5°	49.7	54.2	62.3	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8
105°	64.1	67.6	75.3	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9
107.5°	78.3	81.8	88.8	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6
110°	88.5	91.6	98.2	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7



TEST NUMBER: P331251-940

CATALOG NUMBER: SA2XXDIP-C290D530U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	97.5	100.9	107.1	117.3	132.5	154.1	188.7	245.0	325.1	419.8	516.6
115°	111.9	114.9	121.0	131.2	144.9	166.8	197.8	247.2	315.3	395.7	479.6
117.5°	125.8	128.9	134.3	144.0	158.3	178.5	207.6	250.8	310.5	380.4	451.7
120°	134.7	137.8	142.4	152.6	166.8	186.6	214.1	253.2	307.6	372.3	437.8
122.5°	142.9	146.0	151.0	161.1	175.8	194.4	219.8	256.1	306.0	365.3	426.9
125°	154.1	157.1	163.3	173.4	187.6	206.0	228.8	260.4	303.1	355.4	410.9
127.5°	163.5	167.8	174.5	184.3	198.9	216.8	237.3	264.7	301.4	346.3	395.1
130°	168.8	173.9	181.0	191.2	205.5	223.3	242.5	268.0	300.5	340.2	385.0
132.5°	174.2	179.6	187.2	197.7	212.0	228.9	247.9	271.3	300.1	335.3	375.2
135°	181.0	187.2	194.7	206.4	220.7	237.0	254.8	275.1	299.5	328.5	361.6
137.5°	188.3	194.5	202.6	214.2	227.4	243.5	260.0	278.6	299.4	323.7	350.7
140°	193.2	199.4	207.5	218.6	231.9	247.2	262.9	280.2	299.0	320.9	343.8
142.5°	198.1	203.8	212.0	222.7	235.1	250.0	265.4	281.4	299.0	318.1	338.0
145°	206.4	211.5	219.2	229.3	240.5	254.2	268.5	282.8	298.0	314.2	330.0
147.5°	214.5	219.4	226.4	234.9	244.8	257.7	270.3	283.1	296.1	310.4	323.9
150°	220.2	224.3	230.9	238.5	247.6	259.3	271.1	282.8	295.0	307.2	319.3
152.5°	225.1	229.2	235.0	242.2	250.5	261.0	271.4	282.0	292.9	304.3	314.9
155°	232.9	235.9	241.6	247.2	254.8	263.4	272.1	280.7	289.4	299.0	308.7
157.5°	239.6	242.1	246.9	251.5	257.8	265.1	272.1	278.4	285.7	294.0	301.5
160°	244.1	246.1	250.2	254.2	259.8	266.0	272.1	277.1	283.3	290.3	296.9
162.5°	247.7	249.8	253.1	256.7	261.1	266.4	271.6	275.9	281.2	287.1	292.5
165°	252.7	253.8	256.8	259.3	262.4	267.0	270.5	273.6	277.1	281.7	285.8
167.5°	256.9	257.8	259.8	261.6	263.5	266.9	269.8	271.3	273.6	276.4	279.4
170°	259.3	259.8	261.4	262.4	263.9	266.4	269.0	270.0	271.5	273.6	276.2
172.5°	261.4	261.1	262.6	263.2	264.3	266.1	267.8	268.4	269.1	270.7	272.5
175°	263.4	262.9	263.9	263.9	264.4	265.5	266.4	266.0	266.4	267.0	268.5
177.5°	264.0	263.6	264.4	264.4	264.4	264.8	265.6	264.8	264.4	264.8	265.6
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4	264.4



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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°	7.4	7.7	7.6	7.6	7.8	7.6	7.6
90°	15.2	16.2	16.8	16.8	16.8	16.8	16.8
92.5°	38.1	33.8	30.6	30.2	28.6	29.0	28.2
95°	102.2	80.9	69.6	63.0	59.0	57.4	58.0
97.5°	254.4	199.4	162.6	138.3	125.8	118.4	114.1
100°	401.3	331.5	270.0	227.8	206.0	191.2	182.1
102.5°	550.5	499.6	434.4	388.5	351.2	332.8	320.4
105°	675.3	682.0	665.1	633.6	602.1	580.2	573.1
107.5°	666.2	719.1	743.7	747.6	745.9	741.5	732.1
110°	637.7	702.8	744.5	766.3	776.1	780.6	780.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	604.0	673.5	721.3	751.7	767.9	776.5	779.3
115°	557.9	624.5	676.9	712.9	736.4	749.6	754.1
117.5°	520.4	580.9	630.0	666.8	691.5	705.4	709.3
120°	500.9	554.8	601.1	636.7	660.6	675.3	680.4
122.5°	484.6	535.7	577.5	609.4	632.9	646.0	650.3
125°	463.2	508.0	546.2	575.7	594.9	607.7	611.8
127.5°	442.6	484.7	520.0	545.6	563.7	574.7	578.0
130°	428.7	468.9	502.4	527.4	544.7	554.8	558.8
132.5°	415.7	452.6	484.1	508.6	525.9	535.3	539.0
135°	395.1	428.7	457.2	479.0	495.8	505.0	507.0
137.5°	378.8	405.4	430.3	450.1	464.6	472.6	475.6
140°	368.2	391.6	413.9	430.3	443.4	451.0	454.1
142.5°	358.8	379.0	397.7	413.1	425.2	431.9	432.6
145°	346.8	362.6	377.4	389.5	398.1	403.2	404.7
147.5°	337.1	349.4	360.2	370.2	377.1	380.6	381.5
150°	330.6	341.3	350.4	358.0	364.1	367.1	367.7
152.5°	325.3	334.3	342.2	348.2	353.6	355.8	355.9
155°	316.8	324.4	330.0	335.6	339.2	341.3	340.2
157.5°	308.3	314.7	319.1	323.0	326.0	326.9	326.9
160°	302.6	308.2	311.7	315.3	317.8	318.3	318.3
162.5°	297.3	302.1	304.8	308.4	310.1	310.6	310.2
165°	289.4	292.9	295.0	296.9	299.0	299.0	298.5
167.5°	282.1	284.5	286.4	287.3	288.5	288.4	287.8
170°	277.7	279.7	280.7	281.2	282.8	282.2	281.2
172.5°	273.6	275.2	275.8	276.3	277.1	276.5	275.9
175°	269.0	269.6	270.0	270.0	270.5	270.0	269.0
177.5°	265.6	266.1	266.1	266.1	266.1	265.6	264.8
180°	264.4	264.4	264.4	264.4	264.4	264.4	264.4

(END OF REPORT)