

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: P331622-927

Luminaire Tested: **SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331622-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 530 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

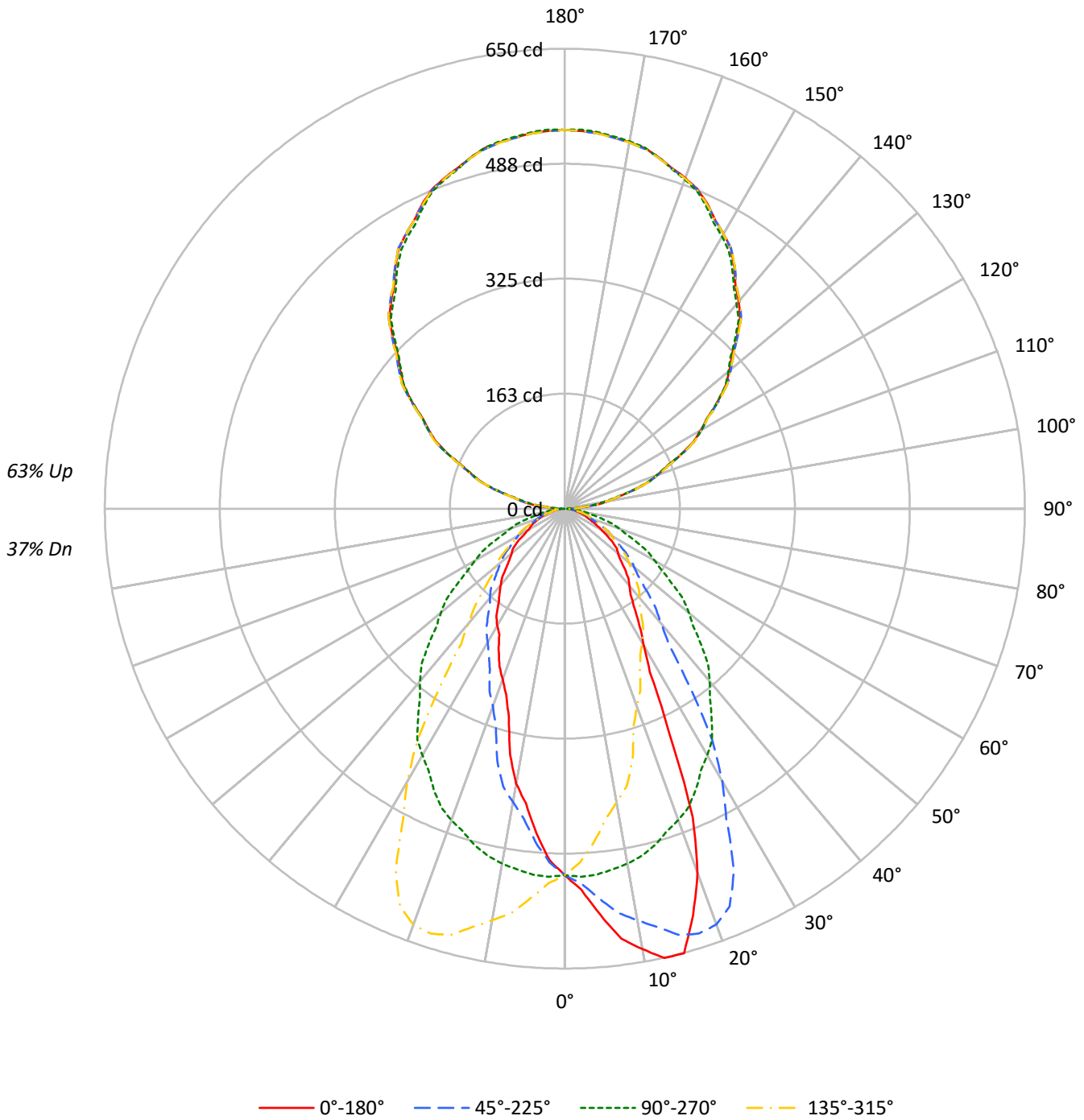
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	96	91	88	85	87	83	80	77	68	66	64	53	52	51	40	39	39	33
2	87	81	75	70	79	73	69	64	60	57	54	48	45	43	36	35	34	28
3	80	71	65	59	73	65	59	55	53	49	46	43	40	37	33	31	29	25
4	74	64	56	51	67	58	52	47	48	43	40	38	35	33	30	28	26	22
5	68	57	49	44	61	52	46	41	43	38	35	35	31	29	27	25	23	19
6	63	51	44	38	57	47	40	36	39	34	30	32	28	25	25	22	21	17
7	58	46	39	34	53	43	36	31	36	31	27	29	25	23	23	20	19	16
8	54	42	35	30	49	39	33	28	33	28	24	27	23	21	21	19	17	14
9	50	39	32	27	46	36	29	25	30	25	22	25	21	19	20	17	15	13
10	47	36	29	24	43	33	27	23	28	23	20	23	19	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	2.1
10°-20°	136.8	5.7
20°-30°	176.3	7.4
30°-40°	167.5	7.0
40°-50°	143.5	6.0
50°-60°	109.3	4.6
60°-70°	69.1	2.9
70°-80°	34.5	1.4
80°-90°	11.1	0.5
90°-100°	33.9	1.4
100°-110°	105.4	4.4
110°-120°	180.1	7.5
120°-130°	236.8	9.9
130°-140°	265.8	11.1
140°-150°	260.6	10.9
150°-160°	218.6	9.1
160°-170°	145.0	6.1
170°-180°	50.7	2.1
0°-30°	362.2	15.1
0°-40°	529.7	22.1
0°-60°	782.5	32.7
0°-90°	897.2	37.5
90°-120°	319.4	13.3
90°-150°	1082.6	45.2
90°-180°	1497.0	62.5
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	7
90°	15	0	15	0	15	7
95°	28	24	28	24	28	31
105°	100	97	100	97	100	105
115°	181	181	181	181	181	178
125°	264	263	264	263	264	235
135°	344	340	344	340	344	265
145°	417	413	417	413	417	261
155°	476	472	476	472	476	219
165°	514	514	514	514	514	145
175°	533	534	533	534	533	51
180°	535	535	535	535	535	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	5.4	5.5	5.5	5.5	5.5	5.5	5.5	5.7	5.5	5.8	5.1
90°	15.4	15.3	15.1	15.1	15.0	15.0	15.2	15.4	15.6	15.8	13.6
92.5°	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.4	14.4	14.3	13.9
95°	28.0	28.2	28.4	28.6	28.8	28.9	28.9	28.9	28.9	28.9	28.7
97.5°	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.6	48.2
100°	61.9	62.0	62.1	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.0
102.5°	77.1	77.2	77.2	77.4	77.5	77.5	77.4	77.3	77.2	77.2	76.8
105°	100.3	100.3	100.3	100.3	100.3	100.2	100.0	99.8	99.6	99.4	99.2
107.5°	122.2	122.6	123.1	123.5	124.0	124.2	124.1	124.1	124.0	123.9	123.9
110°	139.1	139.4	139.7	140.1	140.4	140.5	140.5	140.5	140.5	140.5	140.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	155.4	155.6	155.8	156.1	156.3	156.5	156.8	157.0	157.2	157.5	157.6
115°	180.7	181.0	181.3	181.6	181.9	182.1	182.2	182.3	182.4	182.5	182.7
117.5°	204.8	205.1	205.4	205.7	206.0	206.3	206.5	206.8	207.0	207.2	207.8
120°	221.8	222.1	222.4	222.7	223.0	223.2	223.2	223.2	223.2	223.2	223.9
122.5°	238.4	238.7	238.8	239.1	239.3	239.6	239.8	240.0	240.3	240.5	241.1
125°	263.8	263.9	264.0	264.1	264.2	264.4	264.7	265.0	265.3	265.6	265.9
127.5°	286.9	287.2	287.6	287.9	288.2	288.6	288.9	289.3	289.6	290.0	290.4
130°	303.6	304.0	304.4	304.8	305.1	305.5	305.7	305.9	306.1	306.3	306.5
132.5°	319.5	319.8	320.1	320.4	320.8	321.2	321.5	322.0	322.5	322.9	322.9
135°	344.2	344.5	344.8	345.2	345.4	345.6	345.7	345.9	345.9	346.0	345.9
137.5°	366.6	367.0	367.4	367.8	368.2	368.4	368.5	368.6	368.7	368.8	368.5
140°	382.1	382.5	382.9	383.3	383.8	384.0	384.0	384.0	384.0	384.0	383.5
142.5°	396.2	396.6	397.0	397.4	397.8	398.0	397.9	397.8	397.8	397.7	397.4
145°	417.4	417.8	418.2	418.6	419.0	419.1	419.1	419.0	418.8	418.7	418.2
147.5°	436.3	436.7	437.0	437.4	437.8	437.9	437.7	437.4	437.2	437.0	436.6
150°	448.6	448.9	449.2	449.5	449.8	449.8	449.5	449.2	448.9	448.6	448.1
152.5°	460.2	460.5	460.9	461.3	461.7	461.7	461.3	460.9	460.5	460.2	459.6
155°	475.7	475.9	476.3	476.6	476.9	476.8	476.3	475.8	475.3	474.8	474.4
157.5°	489.0	489.6	490.0	490.5	491.0	490.9	490.2	489.5	488.9	488.1	488.0
160°	497.3	497.7	498.2	498.6	499.0	498.8	498.3	497.6	497.1	496.5	496.4
162.5°	504.6	505.1	505.6	506.0	506.5	506.4	505.7	505.0	504.4	503.7	503.6
165°	514.0	514.6	515.1	515.6	516.1	515.9	515.3	514.6	513.9	513.2	513.2
167.5°	521.8	522.4	522.9	523.4	523.9	523.9	523.2	522.4	521.7	521.0	521.0
170°	525.9	526.4	527.0	527.6	528.2	528.1	527.5	526.8	526.1	525.4	525.5
172.5°	529.1	529.7	530.3	530.9	531.5	531.4	530.8	530.0	529.3	528.6	528.7
175°	532.6	533.2	533.8	534.4	535.0	535.0	534.2	533.5	532.8	532.1	532.3
177.5°	534.2	534.7	535.2	535.7	536.1	536.1	535.7	535.2	534.7	534.2	534.4
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	4.8	4.4	4.0	3.5	3.4	3.3	3.8	4.3	4.0	3.7	3.7
90°	11.4	9.2	7.0	5.3	4.0	2.9	1.7	0.5	1.7	2.9	4.0
92.5°	13.3	12.8	12.3	11.6	10.7	9.8	9.0	8.1	9.0	9.8	10.7
95°	28.5	28.3	28.1	27.5	26.5	25.5	24.5	23.5	24.5	25.5	26.5
97.5°	47.8	47.5	47.1	46.4	45.6	44.7	43.8	42.9	43.8	44.7	45.6
100°	61.7	61.5	61.2	60.6	59.8	58.9	58.1	57.4	58.1	58.9	59.8
102.5°	76.4	76.0	75.7	75.1	74.5	73.8	73.2	72.6	73.2	73.8	74.5
105°	98.9	98.8	98.5	98.3	98.0	97.8	97.4	97.1	97.4	97.8	98.0
107.5°	123.9	123.9	123.9	123.7	123.2	122.8	122.3	121.9	122.3	122.8	123.2
110°	140.5	140.5	140.5	140.2	139.6	138.9	138.4	137.8	138.4	138.9	139.6



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	157.6	157.7	157.8	157.6	156.9	156.3	155.7	155.1	155.7	156.3	156.9
115°	182.9	183.1	183.3	183.1	182.5	181.9	181.3	180.7	181.3	181.9	182.5
117.5°	208.3	209.0	209.5	209.4	208.6	207.8	207.0	206.2	207.0	207.8	208.6
120°	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2	223.9	224.7	225.5
122.5°	241.6	242.2	242.7	242.6	241.6	240.7	239.6	238.7	239.6	240.7	241.6
125°	266.3	266.5	266.8	266.5	265.6	264.7	263.8	262.9	263.8	264.7	265.6
127.5°	290.7	291.1	291.4	291.0	289.9	288.8	287.6	286.5	287.6	288.8	289.9
130°	306.7	306.9	307.0	306.5	305.2	303.9	302.6	301.3	302.6	303.9	305.2
132.5°	322.8	322.8	322.7	322.2	321.2	320.0	319.0	317.9	319.0	320.0	321.2
135°	345.6	345.4	345.2	344.6	343.5	342.4	341.3	340.2	341.3	342.4	343.5
137.5°	368.3	368.0	367.7	367.2	366.3	365.4	364.5	363.5	364.5	365.4	366.3
140°	382.9	382.5	382.0	381.3	380.3	379.5	378.6	377.6	378.6	379.5	380.3
142.5°	397.0	396.7	396.3	395.7	394.8	394.0	393.0	392.1	393.0	394.0	394.8
145°	417.6	416.9	416.4	415.7	415.0	414.3	413.6	412.9	413.6	414.3	415.0
147.5°	436.2	435.8	435.4	434.7	434.0	433.1	432.2	431.4	432.2	433.1	434.0
150°	447.7	447.3	446.9	446.5	445.8	445.3	444.7	444.1	444.7	445.3	445.8
152.5°	459.1	458.7	458.2	457.6	457.1	456.5	455.9	455.3	455.9	456.5	457.1
155°	474.2	473.9	473.6	473.2	472.9	472.7	472.4	472.1	472.4	472.7	472.9
157.5°	487.8	487.6	487.4	487.3	487.0	486.8	486.6	486.4	486.6	486.8	487.0
160°	496.2	496.1	496.1	495.9	495.7	495.5	495.3	495.1	495.3	495.5	495.7
162.5°	503.5	503.4	503.3	503.2	503.2	503.1	503.1	503.0	503.1	503.1	503.2
165°	513.2	513.2	513.2	513.3	513.3	513.4	513.5	513.7	513.5	513.4	513.3
167.5°	521.1	521.1	521.1	521.3	521.6	521.9	522.2	522.4	522.2	521.9	521.6
170°	525.5	525.7	525.8	526.0	526.2	526.6	526.9	527.2	526.9	526.6	526.2
172.5°	528.9	528.9	529.0	529.3	529.5	529.8	530.1	530.4	530.1	529.8	529.5
175°	532.6	532.7	533.0	533.2	533.5	533.8	534.1	534.4	534.1	533.8	533.5
177.5°	534.6	534.7	534.9	535.0	535.3	535.5	535.8	536.1	535.8	535.5	535.3
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	3.8	4.0	4.1	4.6	5.0	5.3	5.3	5.1	5.1	5.0	4.8
90°	5.3	7.0	9.2	11.4	13.6	15.8	15.6	15.4	15.2	15.0	15.0
92.5°	11.6	12.3	12.8	13.3	13.9	14.3	14.4	14.4	14.5	14.5	14.6
95°	27.5	28.1	28.3	28.5	28.7	28.9	28.9	28.9	28.9	28.9	28.8
97.5°	46.4	47.1	47.5	47.8	48.2	48.6	48.6	48.6	48.6	48.6	48.6
100°	60.6	61.2	61.5	61.7	62.0	62.3	62.3	62.3	62.3	62.3	62.3
102.5°	75.1	75.7	76.0	76.4	76.8	77.2	77.2	77.3	77.4	77.5	77.5
105°	98.3	98.5	98.8	98.9	99.2	99.4	99.6	99.8	100.0	100.2	100.3
107.5°	123.7	123.9	123.9	123.9	123.9	123.9	124.0	124.1	124.1	124.2	124.0
110°	140.2	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.4



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	157.6	157.8	157.7	157.6	157.6	157.5	157.2	157.0	156.8	156.5	156.3
115°	183.1	183.3	183.1	182.9	182.7	182.5	182.4	182.3	182.2	182.1	181.9
117.5°	209.4	209.5	209.0	208.3	207.8	207.2	207.0	206.8	206.5	206.3	206.0
120°	226.4	226.4	225.5	224.7	223.9	223.2	223.2	223.2	223.2	223.2	223.0
122.5°	242.6	242.7	242.2	241.6	241.1	240.5	240.3	240.0	239.8	239.6	239.3
125°	266.5	266.8	266.5	266.3	265.9	265.6	265.3	265.0	264.7	264.4	264.2
127.5°	291.0	291.4	291.1	290.7	290.4	290.0	289.6	289.3	288.9	288.6	288.2
130°	306.5	307.0	306.9	306.7	306.5	306.3	306.1	305.9	305.7	305.5	305.1
132.5°	322.2	322.7	322.8	322.8	322.9	322.9	322.5	322.0	321.5	321.2	320.8
135°	344.6	345.2	345.4	345.6	345.9	346.0	345.9	345.9	345.7	345.6	345.4
137.5°	367.2	367.7	368.0	368.3	368.5	368.8	368.7	368.6	368.5	368.4	368.2
140°	381.3	382.0	382.5	382.9	383.5	384.0	384.0	384.0	384.0	384.0	383.8
142.5°	395.7	396.3	396.7	397.0	397.4	397.7	397.8	397.8	397.9	398.0	397.8
145°	415.7	416.4	416.9	417.6	418.2	418.7	418.8	419.0	419.1	419.1	419.0
147.5°	434.7	435.4	435.8	436.2	436.6	437.0	437.2	437.4	437.7	437.9	437.8
150°	446.5	446.9	447.3	447.7	448.1	448.6	448.9	449.2	449.5	449.8	449.8
152.5°	457.6	458.2	458.7	459.1	459.6	460.2	460.5	460.9	461.3	461.7	461.7
155°	473.2	473.6	473.9	474.2	474.4	474.8	475.3	475.8	476.3	476.8	476.9
157.5°	487.3	487.4	487.6	487.8	488.0	488.1	488.9	489.5	490.2	490.9	491.0
160°	495.9	496.1	496.1	496.2	496.4	496.5	497.1	497.6	498.3	498.8	499.0
162.5°	503.2	503.3	503.4	503.5	503.6	503.7	504.4	505.0	505.7	506.4	506.5
165°	513.3	513.2	513.2	513.2	513.2	513.2	513.9	514.6	515.3	515.9	516.1
167.5°	521.3	521.1	521.1	521.1	521.0	521.0	521.7	522.4	523.2	523.9	523.9
170°	526.0	525.8	525.7	525.5	525.5	525.4	526.1	526.8	527.5	528.1	528.2
172.5°	529.3	529.0	528.9	528.9	528.7	528.6	529.3	530.0	530.8	531.4	531.5
175°	533.2	533.0	532.7	532.6	532.3	532.1	532.8	533.5	534.2	535.0	535.0
177.5°	535.0	534.9	534.7	534.6	534.4	534.2	534.7	535.2	535.7	536.1	536.1
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	4.9	4.8	4.9	4.8	4.9	4.8	4.9	4.8	5.0	5.1	5.1
90°	15.1	15.1	15.3	15.4	15.3	15.1	15.1	15.0	15.0	15.2	15.4
92.5°	14.6	14.6	14.7	14.7	14.7	14.6	14.6	14.6	14.5	14.5	14.4
95°	28.6	28.4	28.2	28.0	28.2	28.4	28.6	28.8	28.9	28.9	28.9
97.5°	48.6	48.6	48.6	48.5	48.6	48.6	48.6	48.6	48.6	48.6	48.6
100°	62.2	62.1	62.0	61.9	62.0	62.1	62.2	62.3	62.3	62.3	62.3
102.5°	77.4	77.2	77.2	77.1	77.2	77.2	77.4	77.5	77.5	77.4	77.3
105°	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.2	100.0	99.8
107.5°	123.5	123.1	122.6	122.2	122.6	123.1	123.5	124.0	124.2	124.1	124.1
110°	140.1	139.7	139.4	139.1	139.4	139.7	140.1	140.4	140.5	140.5	140.5



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	156.1	155.8	155.6	155.4	155.6	155.8	156.1	156.3	156.5	156.8	157.0
115°	181.6	181.3	181.0	180.7	181.0	181.3	181.6	181.9	182.1	182.2	182.3
117.5°	205.7	205.4	205.1	204.8	205.1	205.4	205.7	206.0	206.3	206.5	206.8
120°	222.7	222.4	222.1	221.8	222.1	222.4	222.7	223.0	223.2	223.2	223.2
122.5°	239.1	238.8	238.7	238.4	238.7	238.8	239.1	239.3	239.6	239.8	240.0
125°	264.1	264.0	263.9	263.8	263.9	264.0	264.1	264.2	264.4	264.7	265.0
127.5°	287.9	287.6	287.2	286.9	287.2	287.6	287.9	288.2	288.6	288.9	289.3
130°	304.8	304.4	304.0	303.6	304.0	304.4	304.8	305.1	305.5	305.7	305.9
132.5°	320.4	320.1	319.8	319.5	319.8	320.1	320.4	320.8	321.2	321.5	322.0
135°	345.2	344.8	344.5	344.2	344.5	344.8	345.2	345.4	345.6	345.7	345.9
137.5°	367.8	367.4	367.0	366.6	367.0	367.4	367.8	368.2	368.4	368.5	368.6
140°	383.3	382.9	382.5	382.1	382.5	382.9	383.3	383.8	384.0	384.0	384.0
142.5°	397.4	397.0	396.6	396.2	396.6	397.0	397.4	397.8	398.0	397.9	397.8
145°	418.6	418.2	417.8	417.4	417.8	418.2	418.6	419.0	419.1	419.1	419.0
147.5°	437.4	437.0	436.7	436.3	436.7	437.0	437.4	437.8	437.9	437.7	437.4
150°	449.5	449.2	448.9	448.6	448.9	449.2	449.5	449.8	449.8	449.5	449.2
152.5°	461.3	460.9	460.5	460.2	460.5	460.9	461.3	461.7	461.7	461.3	460.9
155°	476.6	476.3	475.9	475.7	475.9	476.3	476.6	476.9	476.8	476.3	475.8
157.5°	490.5	490.0	489.6	489.0	489.6	490.0	490.5	491.0	490.9	490.2	489.5
160°	498.6	498.2	497.7	497.3	497.7	498.2	498.6	499.0	498.8	498.3	497.6
162.5°	506.0	505.6	505.1	504.6	505.1	505.6	506.0	506.5	506.4	505.7	505.0
165°	515.6	515.1	514.6	514.0	514.6	515.1	515.6	516.1	515.9	515.3	514.6
167.5°	523.4	522.9	522.4	521.8	522.4	522.9	523.4	523.9	523.9	523.2	522.4
170°	527.6	527.0	526.4	525.9	526.4	527.0	527.6	528.2	528.1	527.5	526.8
172.5°	530.9	530.3	529.7	529.1	529.7	530.3	530.9	531.5	531.4	530.8	530.0
175°	534.4	533.8	533.2	532.6	533.2	533.8	534.4	535.0	535.0	534.2	533.5
177.5°	535.7	535.2	534.7	534.2	534.7	535.2	535.7	536.1	536.1	535.7	535.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	5.3	5.3	5.0	4.6	4.1	4.0	3.8	3.7	3.7	4.0	4.3
90°	15.6	15.8	13.6	11.4	9.2	7.0	5.3	4.0	2.9	1.7	0.5
92.5°	14.4	14.3	13.9	13.3	12.8	12.3	11.6	10.7	9.8	9.0	8.1
95°	28.9	28.9	28.7	28.5	28.3	28.1	27.5	26.5	25.5	24.5	23.5
97.5°	48.6	48.6	48.2	47.8	47.5	47.1	46.4	45.6	44.7	43.8	42.9
100°	62.3	62.3	62.0	61.7	61.5	61.2	60.6	59.8	58.9	58.1	57.4
102.5°	77.2	77.2	76.8	76.4	76.0	75.7	75.1	74.5	73.8	73.2	72.6
105°	99.6	99.4	99.2	98.9	98.8	98.5	98.3	98.0	97.8	97.4	97.1
107.5°	124.0	123.9	123.9	123.9	123.9	123.9	123.7	123.2	122.8	122.3	121.9
110°	140.5	140.5	140.5	140.5	140.5	140.5	140.2	139.6	138.9	138.4	137.8



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	157.2	157.5	157.6	157.6	157.7	157.8	157.6	156.9	156.3	155.7	155.1
115°	182.4	182.5	182.7	182.9	183.1	183.3	183.1	182.5	181.9	181.3	180.7
117.5°	207.0	207.2	207.8	208.3	209.0	209.5	209.4	208.6	207.8	207.0	206.2
120°	223.2	223.2	223.9	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2
122.5°	240.3	240.5	241.1	241.6	242.2	242.7	242.6	241.6	240.7	239.6	238.7
125°	265.3	265.6	265.9	266.3	266.5	266.8	266.5	265.6	264.7	263.8	262.9
127.5°	289.6	290.0	290.4	290.7	291.1	291.4	291.0	289.9	288.8	287.6	286.5
130°	306.1	306.3	306.5	306.7	306.9	307.0	306.5	305.2	303.9	302.6	301.3
132.5°	322.5	322.9	322.9	322.8	322.8	322.7	322.2	321.2	320.0	319.0	317.9
135°	345.9	346.0	345.9	345.6	345.4	345.2	344.6	343.5	342.4	341.3	340.2
137.5°	368.7	368.8	368.5	368.3	368.0	367.7	367.2	366.3	365.4	364.5	363.5
140°	384.0	384.0	383.5	382.9	382.5	382.0	381.3	380.3	379.5	378.6	377.6
142.5°	397.8	397.7	397.4	397.0	396.7	396.3	395.7	394.8	394.0	393.0	392.1
145°	418.8	418.7	418.2	417.6	416.9	416.4	415.7	415.0	414.3	413.6	412.9
147.5°	437.2	437.0	436.6	436.2	435.8	435.4	434.7	434.0	433.1	432.2	431.4
150°	448.9	448.6	448.1	447.7	447.3	446.9	446.5	445.8	445.3	444.7	444.1
152.5°	460.5	460.2	459.6	459.1	458.7	458.2	457.6	457.1	456.5	455.9	455.3
155°	475.3	474.8	474.4	474.2	473.9	473.6	473.2	472.9	472.7	472.4	472.1
157.5°	488.9	488.1	488.0	487.8	487.6	487.4	487.3	487.0	486.8	486.6	486.4
160°	497.1	496.5	496.4	496.2	496.1	496.1	495.9	495.7	495.5	495.3	495.1
162.5°	504.4	503.7	503.6	503.5	503.4	503.3	503.2	503.2	503.1	503.1	503.0
165°	513.9	513.2	513.2	513.2	513.2	513.2	513.3	513.3	513.4	513.5	513.7
167.5°	521.7	521.0	521.0	521.1	521.1	521.1	521.3	521.6	521.9	522.2	522.4
170°	526.1	525.4	525.5	525.5	525.7	525.8	526.0	526.2	526.6	526.9	527.2
172.5°	529.3	528.6	528.7	528.9	528.9	529.0	529.3	529.5	529.8	530.1	530.4
175°	532.8	532.1	532.3	532.6	532.7	533.0	533.2	533.5	533.8	534.1	534.4
177.5°	534.7	534.2	534.4	534.6	534.7	534.9	535.0	535.3	535.5	535.8	536.1
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	3.8	3.3	3.4	3.5	4.0	4.4	4.8	5.1	5.8	5.5	5.7
90°	1.7	2.9	4.0	5.3	7.0	9.2	11.4	13.6	15.8	15.6	15.4
92.5°	9.0	9.8	10.7	11.6	12.3	12.8	13.3	13.9	14.3	14.4	14.4
95°	24.5	25.5	26.5	27.5	28.1	28.3	28.5	28.7	28.9	28.9	28.9
97.5°	43.8	44.7	45.6	46.4	47.1	47.5	47.8	48.2	48.6	48.6	48.6
100°	58.1	58.9	59.8	60.6	61.2	61.5	61.7	62.0	62.3	62.3	62.3
102.5°	73.2	73.8	74.5	75.1	75.7	76.0	76.4	76.8	77.2	77.2	77.3
105°	97.4	97.8	98.0	98.3	98.5	98.8	98.9	99.2	99.4	99.6	99.8
107.5°	122.3	122.8	123.2	123.7	123.9	123.9	123.9	123.9	123.9	124.0	124.1
110°	138.4	138.9	139.6	140.2	140.5	140.5	140.5	140.5	140.5	140.5	140.5



TEST NUMBER: P331622-927

CATALOG NUMBER: SA2XXRDIP-C290D530U927-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	155.7	156.3	156.9	157.6	157.8	157.7	157.6	157.6	157.5	157.2	157.0
115°	181.3	181.9	182.5	183.1	183.3	183.1	182.9	182.7	182.5	182.4	182.3
117.5°	207.0	207.8	208.6	209.4	209.5	209.0	208.3	207.8	207.2	207.0	206.8
120°	223.9	224.7	225.5	226.4	226.4	225.5	224.7	223.9	223.2	223.2	223.2
122.5°	239.6	240.7	241.6	242.6	242.7	242.2	241.6	241.1	240.5	240.3	240.0
125°	263.8	264.7	265.6	266.5	266.8	266.5	266.3	265.9	265.6	265.3	265.0
127.5°	287.6	288.8	289.9	291.0	291.4	291.1	290.7	290.4	290.0	289.6	289.3
130°	302.6	303.9	305.2	306.5	307.0	306.9	306.7	306.5	306.3	306.1	305.9
132.5°	319.0	320.0	321.2	322.2	322.7	322.8	322.8	322.9	322.9	322.5	322.0
135°	341.3	342.4	343.5	344.6	345.2	345.4	345.6	345.9	346.0	345.9	345.9
137.5°	364.5	365.4	366.3	367.2	367.7	368.0	368.3	368.5	368.8	368.7	368.6
140°	378.6	379.5	380.3	381.3	382.0	382.5	382.9	383.5	384.0	384.0	384.0
142.5°	393.0	394.0	394.8	395.7	396.3	396.7	397.0	397.4	397.7	397.8	397.8
145°	413.6	414.3	415.0	415.7	416.4	416.9	417.6	418.2	418.7	418.8	419.0
147.5°	432.2	433.1	434.0	434.7	435.4	435.8	436.2	436.6	437.0	437.2	437.4
150°	444.7	445.3	445.8	446.5	446.9	447.3	447.7	448.1	448.6	448.9	449.2
152.5°	455.9	456.5	457.1	457.6	458.2	458.7	459.1	459.6	460.2	460.5	460.9
155°	472.4	472.7	472.9	473.2	473.6	473.9	474.2	474.4	474.8	475.3	475.8
157.5°	486.6	486.8	487.0	487.3	487.4	487.6	487.8	488.0	488.1	488.9	489.5
160°	495.3	495.5	495.7	495.9	496.1	496.1	496.2	496.4	496.5	497.1	497.6
162.5°	503.1	503.1	503.2	503.2	503.3	503.4	503.5	503.6	503.7	504.4	505.0
165°	513.5	513.4	513.3	513.3	513.2	513.2	513.2	513.2	513.2	513.9	514.6
167.5°	522.2	521.9	521.6	521.3	521.1	521.1	521.1	521.0	521.0	521.7	522.4
170°	526.9	526.6	526.2	526.0	525.8	525.7	525.5	525.5	525.4	526.1	526.8
172.5°	530.1	529.8	529.5	529.3	529.0	528.9	528.9	528.7	528.6	529.3	530.0
175°	534.1	533.8	533.5	533.2	533.0	532.7	532.6	532.3	532.1	532.8	533.5
177.5°	535.8	535.5	535.3	535.0	534.9	534.7	534.6	534.4	534.2	534.7	535.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.4
90°	15.2	15.0	15.0	15.1	15.1	15.3	15.4
92.5°	14.5	14.5	14.6	14.6	14.6	14.7	14.7
95°	28.9	28.9	28.8	28.6	28.4	28.2	28.0
97.5°	48.6	48.6	48.6	48.6	48.6	48.6	48.5
100°	62.3	62.3	62.3	62.2	62.1	62.0	61.9
102.5°	77.4	77.5	77.5	77.4	77.2	77.2	77.1
105°	100.0	100.2	100.3	100.3	100.3	100.3	100.3
107.5°	124.1	124.2	124.0	123.5	123.1	122.6	122.2
110°	140.5	140.5	140.4	140.1	139.7	139.4	139.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	156.8	156.5	156.3	156.1	155.8	155.6	155.4
115°	182.2	182.1	181.9	181.6	181.3	181.0	180.7
117.5°	206.5	206.3	206.0	205.7	205.4	205.1	204.8
120°	223.2	223.2	223.0	222.7	222.4	222.1	221.8
122.5°	239.8	239.6	239.3	239.1	238.8	238.7	238.4
125°	264.7	264.4	264.2	264.1	264.0	263.9	263.8
127.5°	288.9	288.6	288.2	287.9	287.6	287.2	286.9
130°	305.7	305.5	305.1	304.8	304.4	304.0	303.6
132.5°	321.5	321.2	320.8	320.4	320.1	319.8	319.5
135°	345.7	345.6	345.4	345.2	344.8	344.5	344.2
137.5°	368.5	368.4	368.2	367.8	367.4	367.0	366.6
140°	384.0	384.0	383.8	383.3	382.9	382.5	382.1
142.5°	397.9	398.0	397.8	397.4	397.0	396.6	396.2
145°	419.1	419.1	419.0	418.6	418.2	417.8	417.4
147.5°	437.7	437.9	437.8	437.4	437.0	436.7	436.3
150°	449.5	449.8	449.8	449.5	449.2	448.9	448.6
152.5°	461.3	461.7	461.7	461.3	460.9	460.5	460.2
155°	476.3	476.8	476.9	476.6	476.3	475.9	475.7
157.5°	490.2	490.9	491.0	490.5	490.0	489.6	489.0
160°	498.3	498.8	499.0	498.6	498.2	497.7	497.3
162.5°	505.7	506.4	506.5	506.0	505.6	505.1	504.6
165°	515.3	515.9	516.1	515.6	515.1	514.6	514.0
167.5°	523.2	523.9	523.9	523.4	522.9	522.4	521.8
170°	527.5	528.1	528.2	527.6	527.0	526.4	525.9
172.5°	530.8	531.4	531.5	530.9	530.3	529.7	529.1
175°	534.2	535.0	535.0	534.4	533.8	533.2	532.6
177.5°	535.7	536.1	536.1	535.7	535.2	534.7	534.2
180°	535.3	535.3	535.3	535.3	535.3	535.3	535.3

(END OF REPORT)