

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: P331622-930

Luminaire Tested: **SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331622-930
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-C290D530U930-4F0-1E-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

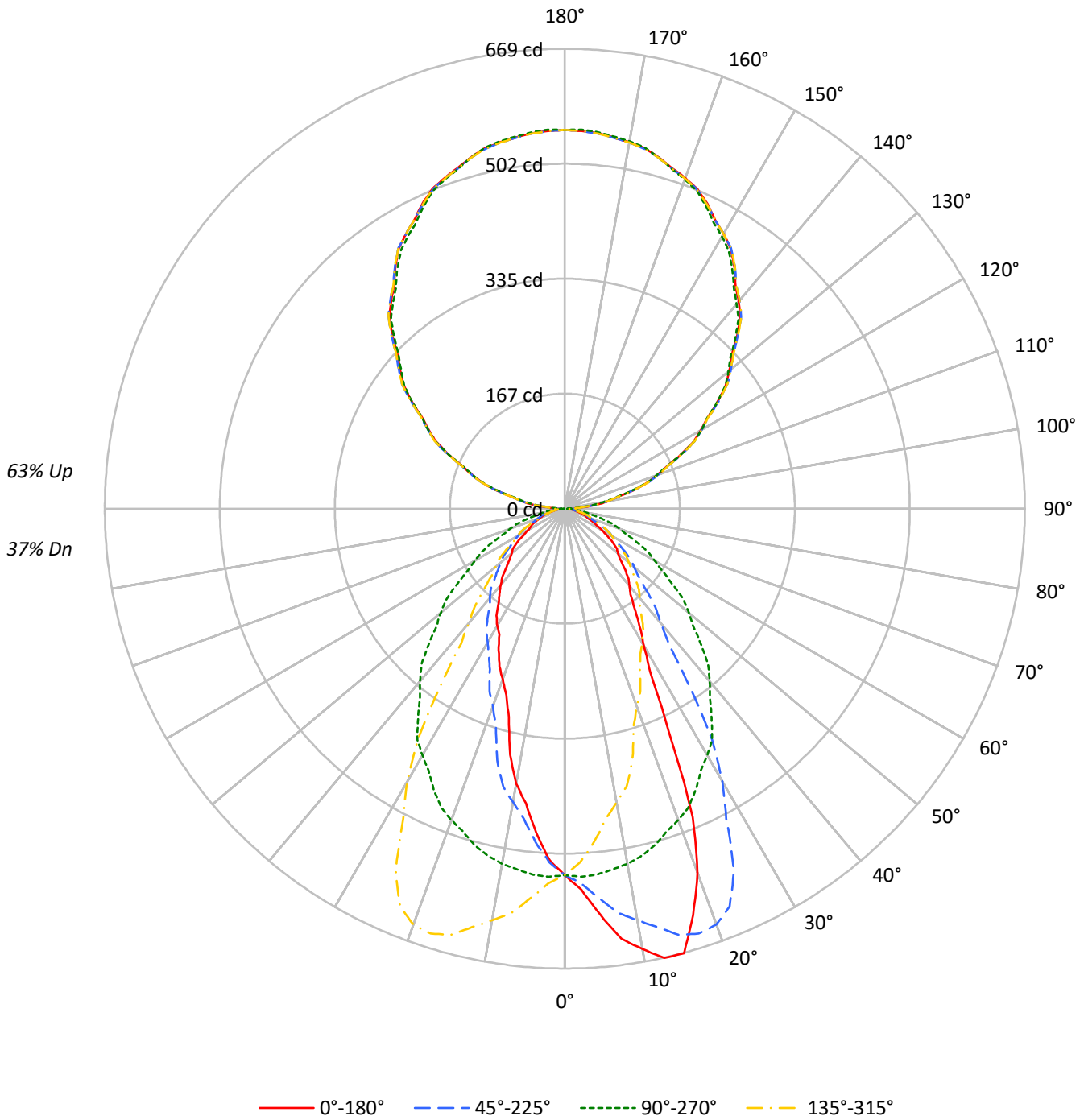
Lumens per Lamp: N/A
Luminaire Lumens: 2463.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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



TEST NUMBER: P331622-930
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	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°	8606	8606	8606	8606
5°	9611	8660	7679	8660
10°	10663	8599	6655	8599
15°	11188	8473	5244	8473
20°	9699	8285	4538	8285
25°	6360	8031	4051	8031
30°	4282	7720	3667	7720
35°	3467	7330	3307	7330
40°	3084	6905	3060	6905
45°	2790	6405	2731	6405
50°	2539	5913	2532	5913
55°	2387	5362	2356	5362
60°	1999	4863	1973	4863
65°	1685	4413	1910	4413
70°	1553	3942	1803	3942
75°	1454	3431	1666	3431
80°	1339	2827	1478	2827
85°	1241	2242	1297	2242



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	2.1
10°-20°	140.8	5.7
20°-30°	181.4	7.4
30°-40°	172.4	7.0
40°-50°	147.7	6.0
50°-60°	112.5	4.6
60°-70°	71.1	2.9
70°-80°	35.5	1.4
80°-90°	11.4	0.5
90°-100°	34.9	1.4
100°-110°	108.4	4.4
110°-120°	185.3	7.5
120°-130°	243.7	9.9
130°-140°	273.5	11.1
140°-150°	268.2	10.9
150°-160°	225.0	9.1
160°-170°	149.2	6.1
170°-180°	52.2	2.1
0°-30°	372.7	15.1
0°-40°	545.1	22.1
0°-60°	805.3	32.7
0°-90°	923.3	37.5
90°-120°	328.7	13.3
90°-150°	1114.2	45.2
90°-180°	1540.0	62.5
0°-180°	2463.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	533	533	533	533	533	
5°	593	534	474	534	593	59
15°	669	507	314	507	669	181
25°	357	451	227	451	357	169
35°	176	372	168	372	176	113
45°	122	280	120	280	122	95
55°	85	190	84	190	85	74
65°	44	116	50	116	44	45
75°	23	55	27	55	23	25
85°	7	12	7	12	7	8
90°	16	0	16	0	16	7
95°	29	24	29	24	29	32
105°	103	100	103	100	103	109
115°	186	186	186	186	186	184
125°	272	271	272	271	272	242
135°	354	350	354	350	354	273
145°	430	425	430	425	430	268
155°	490	486	490	486	490	225
165°	529	529	529	529	529	149
175°	548	550	548	550	548	52
180°	551	551	551	551	551	



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	554.6	555.1	555.5	554.5	554.5	553.6	551.6	550.2	546.0	545.4	545.4
5°	593.0	592.6	593.4	590.9	587.7	586.9	583.3	578.7	573.9	568.6	567.4
7.5°	631.1	630.6	629.1	628.7	626.1	620.5	614.9	608.9	600.9	593.0	589.1
10°	650.4	656.6	652.8	646.4	647.6	639.0	634.3	626.3	619.6	608.0	605.4
12.5°	669.4	671.8	670.6	666.9	665.3	659.3	653.0	646.0	633.7	623.3	614.2
15°	669.3	672.8	673.8	672.6	673.5	673.2	669.8	664.1	653.4	641.9	631.9
17.5°	619.9	622.3	628.4	632.5	637.7	648.7	654.1	656.2	654.6	648.0	641.0
20°	564.5	560.4	577.5	586.1	593.5	612.0	628.0	634.1	643.9	643.8	641.9
22.5°	485.9	486.9	503.0	513.4	535.0	553.6	571.7	594.7	613.7	626.2	633.6
25°	357.0	364.1	380.2	394.3	418.3	452.8	484.1	520.4	554.6	581.7	607.5
27.5°	268.2	268.7	281.4	294.5	308.8	337.0	376.4	419.7	468.6	508.9	555.2
30°	229.7	228.5	233.9	241.9	254.1	276.0	305.6	348.1	396.9	457.6	511.7
32.5°	202.4	202.4	206.5	212.4	222.5	237.3	257.6	292.2	338.2	397.9	461.3
35°	175.9	175.8	178.7	183.0	187.2	196.7	210.6	228.7	260.4	316.1	380.9
37.5°	156.9	157.8	159.2	161.9	166.6	171.9	180.2	192.4	214.9	247.9	302.4
40°	146.3	146.7	148.7	150.9	153.7	157.8	164.6	174.5	190.9	217.2	257.1
42.5°	136.6	136.9	138.4	140.4	142.6	146.7	152.4	160.9	174.2	194.7	227.6
45°	122.2	122.2	123.5	124.4	126.9	130.5	135.2	142.3	151.5	166.6	188.5
47.5°	108.8	108.8	109.7	111.3	112.8	115.7	120.3	126.0	132.7	144.5	163.1
50°	101.1	101.3	101.8	103.1	104.1	106.6	110.2	115.2	122.2	131.3	146.8
52.5°	94.9	94.8	95.5	96.0	96.7	98.5	101.2	105.6	111.9	119.8	132.6
55°	84.8	84.1	85.2	86.1	86.7	87.4	88.9	91.6	97.0	103.7	113.3
57.5°	72.2	71.9	72.7	73.5	75.3	77.3	78.6	80.3	83.1	87.9	97.4
60°	61.9	61.9	63.5	64.1	66.1	68.7	71.3	72.8	75.6	78.7	85.8
62.5°	52.7	52.8	53.6	54.1	55.3	58.5	62.1	65.4	68.0	71.0	75.7
65°	44.1	44.4	44.4	44.8	45.6	46.3	47.8	50.4	55.0	59.3	62.8
67.5°	37.4	37.5	37.7	38.0	38.2	39.0	39.6	40.8	41.8	45.8	50.2
70°	32.9	33.5	33.3	33.7	33.9	34.2	35.0	35.5	37.3	38.2	40.8
72.5°	28.8	29.2	29.2	29.4	29.9	30.0	30.6	31.1	32.2	32.9	34.4
75°	23.3	23.2	23.3	23.7	23.9	24.1	24.1	24.8	25.4	26.1	27.1
77.5°	18.0	18.2	18.2	18.2	18.3	18.6	18.5	18.8	19.4	19.8	20.2
80°	14.4	14.6	14.4	14.6	14.8	15.0	14.8	15.0	15.6	15.9	15.9
82.5°	11.2	11.3	11.3	11.3	11.4	11.4	11.7	11.7	12.1	12.1	12.2
85°	6.7	6.5	6.5	6.5	6.7	6.8	6.7	6.7	6.8	6.8	6.8
87.5°	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.9	5.7	6.0	5.3
90°	15.8	15.7	15.6	15.5	15.4	15.4	15.7	15.9	16.1	16.3	14.0
92.5°	15.1	15.1	15.0	15.0	15.0	14.9	14.9	14.8	14.8	14.8	14.3
95°	28.9	29.0	29.3	29.4	29.7	29.8	29.8	29.8	29.8	29.8	29.5
97.5°	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.1	50.1	50.1	49.7
100°	63.7	63.8	63.9	64.0	64.1	64.2	64.2	64.2	64.2	64.2	63.8
102.5°	79.3	79.4	79.5	79.7	79.7	79.7	79.7	79.6	79.5	79.4	79.0
105°	103.2	103.2	103.2	103.2	103.2	103.1	102.9	102.7	102.5	102.3	102.1
107.5°	125.7	126.2	126.7	127.1	127.6	127.8	127.8	127.7	127.6	127.5	127.5
110°	143.2	143.5	143.8	144.1	144.5	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	160.0	160.1	160.4	160.6	160.9	161.1	161.3	161.6	161.8	162.1	162.2
115°	186.0	186.3	186.6	186.9	187.2	187.4	187.5	187.6	187.8	187.8	188.0
117.5°	210.8	211.1	211.4	211.7	212.1	212.3	212.5	212.8	213.0	213.3	213.9
120°	228.3	228.6	228.9	229.2	229.5	229.7	229.7	229.7	229.7	229.7	230.5
122.5°	245.4	245.6	245.8	246.1	246.3	246.5	246.8	247.0	247.3	247.5	248.1
125°	271.5	271.6	271.7	271.8	271.9	272.1	272.5	272.7	273.0	273.4	273.7
127.5°	295.3	295.6	296.0	296.3	296.6	297.0	297.3	297.7	298.1	298.5	298.9
130°	312.4	312.8	313.2	313.6	314.1	314.4	314.6	314.8	315.0	315.2	315.4
132.5°	328.8	329.1	329.5	329.8	330.1	330.5	330.9	331.4	331.9	332.3	332.3
135°	354.2	354.6	354.9	355.2	355.5	355.7	355.8	356.0	356.0	356.1	356.0
137.5°	377.3	377.7	378.1	378.5	379.0	379.2	379.3	379.4	379.4	379.5	379.3
140°	393.3	393.7	394.1	394.5	395.0	395.2	395.2	395.2	395.2	395.2	394.7
142.5°	407.8	408.2	408.6	409.0	409.4	409.6	409.5	409.4	409.4	409.3	409.0
145°	429.6	430.0	430.4	430.8	431.2	431.4	431.3	431.2	431.0	431.0	430.4
147.5°	449.0	449.4	449.8	450.2	450.6	450.7	450.5	450.2	450.0	449.8	449.3
150°	461.7	461.9	462.3	462.6	462.9	462.9	462.6	462.3	461.9	461.7	461.2
152.5°	473.6	473.9	474.3	474.7	475.2	475.2	474.7	474.3	473.9	473.6	473.0
155°	489.6	489.8	490.2	490.5	490.8	490.7	490.2	489.7	489.2	488.6	488.3
157.5°	503.3	503.9	504.3	504.8	505.3	505.2	504.5	503.8	503.1	502.4	502.2
160°	511.8	512.3	512.7	513.1	513.6	513.4	512.8	512.2	511.6	510.9	510.9
162.5°	519.3	519.8	520.3	520.8	521.3	521.2	520.5	519.8	519.1	518.4	518.3
165°	529.0	529.6	530.1	530.6	531.2	531.0	530.4	529.6	528.9	528.2	528.2
167.5°	537.0	537.6	538.2	538.7	539.2	539.2	538.4	537.7	537.0	536.2	536.2
170°	541.2	541.8	542.4	543.0	543.6	543.6	542.9	542.2	541.4	540.7	540.8
172.5°	544.5	545.1	545.8	546.4	547.0	546.9	546.3	545.5	544.8	544.0	544.1
175°	548.1	548.8	549.3	550.0	550.7	550.6	549.8	549.1	548.4	547.6	547.9
177.5°	549.8	550.3	550.8	551.3	551.8	551.8	551.3	550.8	550.3	549.8	550.0
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	545.8	544.5	543.5	540.9	539.5	536.5	536.1	536.0	532.1	528.4	527.3
5°	564.5	561.5	557.1	551.9	546.5	541.0	537.3	534.3	526.8	519.8	515.8
7.5°	583.3	577.0	569.3	559.5	551.3	542.2	535.3	529.2	518.7	508.6	501.8
10°	597.5	587.1	576.9	563.4	552.8	542.4	532.8	524.5	512.7	499.3	489.8
12.5°	606.2	594.8	580.7	567.5	553.8	540.6	527.7	517.1	503.1	489.3	478.2
15°	618.0	605.8	588.7	569.8	552.3	535.0	520.2	506.9	488.8	472.2	458.5
17.5°	627.7	610.8	592.6	570.7	550.3	528.5	509.4	492.4	472.1	452.2	436.1
20°	630.8	614.1	593.0	571.1	547.1	521.3	500.8	482.2	460.6	438.9	420.4
22.5°	628.8	615.9	592.4	566.2	541.6	514.7	491.5	469.9	445.9	423.8	402.4
25°	615.8	611.3	589.1	560.6	532.5	501.2	474.3	450.8	423.4	399.7	376.3
27.5°	585.3	594.9	581.1	550.7	519.4	485.9	455.7	428.9	400.5	373.8	350.6
30°	556.0	578.0	572.1	543.9	508.9	476.0	442.1	414.1	383.8	356.3	333.4
32.5°	515.8	552.2	558.0	534.4	498.2	462.0	426.5	398.7	367.0	338.1	315.7
35°	451.8	506.3	531.3	516.3	480.0	440.9	404.3	371.9	340.0	311.5	289.3
37.5°	375.6	449.8	491.5	492.5	459.2	418.6	378.6	346.4	313.8	285.8	261.8
40°	326.1	406.5	460.8	472.8	444.7	400.8	360.4	327.6	295.8	268.3	240.8
42.5°	281.7	361.7	428.4	449.4	427.1	383.4	342.9	308.7	277.7	251.8	223.6
45°	227.8	297.8	371.3	408.7	396.3	356.0	313.2	280.5	251.5	229.1	202.0
47.5°	192.2	241.5	312.7	363.2	363.1	326.2	284.1	252.9	225.9	204.9	183.0
50°	171.9	214.8	275.0	332.4	337.2	306.3	266.3	235.4	210.2	188.2	170.6
52.5°	153.6	189.1	243.1	298.2	311.9	285.1	246.3	217.8	193.3	173.0	158.0
55°	129.8	157.3	198.4	249.8	270.6	251.7	217.2	190.5	170.7	153.7	140.7
57.5°	109.8	130.4	163.4	204.8	228.9	217.1	188.7	167.0	150.0	134.6	124.4
60°	97.3	114.1	142.0	176.7	203.3	195.0	170.7	150.6	136.2	122.8	113.2
62.5°	85.4	99.9	123.8	152.0	176.3	172.9	153.1	136.2	123.5	111.4	103.2
65°	68.7	79.2	98.0	120.0	139.7	141.3	127.0	115.5	104.3	94.7	87.4
67.5°	54.7	61.6	74.8	93.4	108.0	113.3	104.6	95.8	86.8	79.4	73.1
70°	46.1	51.7	61.3	76.3	89.8	95.4	90.3	83.5	75.7	69.6	64.2
72.5°	37.3	42.8	49.9	60.9	72.5	78.5	76.7	71.8	65.6	60.4	55.4
75°	28.1	29.8	34.7	42.1	51.1	56.3	57.6	55.0	50.0	46.1	43.1
77.5°	20.8	21.9	24.1	28.0	33.9	38.6	40.4	40.1	36.7	34.5	31.6
80°	16.6	17.2	18.3	20.0	24.5	29.1	30.4	30.4	28.0	27.1	24.3
82.5°	12.6	13.0	13.8	14.7	16.7	20.8	22.3	22.5	21.0	19.8	17.6
85°	7.3	7.0	7.4	8.0	8.3	9.5	11.7	12.1	11.7	10.2	9.6
87.5°	4.9	4.6	4.1	3.6	3.5	3.4	3.9	4.4	4.1	3.8	3.8
90°	11.7	9.5	7.2	5.5	4.2	2.9	1.7	0.5	1.7	2.9	4.2
92.5°	13.7	13.2	12.6	11.9	11.0	10.1	9.2	8.3	9.2	10.1	11.0
95°	29.4	29.1	28.9	28.3	27.3	26.3	25.2	24.2	25.2	26.3	27.3
97.5°	49.2	48.8	48.4	47.8	46.9	46.0	45.1	44.2	45.1	46.0	46.9
100°	63.5	63.3	62.9	62.4	61.6	60.7	59.8	59.0	59.8	60.7	61.6
102.5°	78.6	78.3	77.9	77.3	76.6	76.0	75.3	74.7	75.3	76.0	76.6
105°	101.8	101.7	101.4	101.2	100.9	100.6	100.3	100.0	100.3	100.6	100.9
107.5°	127.5	127.5	127.5	127.3	126.8	126.4	125.9	125.5	125.9	126.4	126.8
110°	144.6	144.6	144.6	144.3	143.7	143.0	142.4	141.8	142.4	143.0	143.7



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	162.2	162.3	162.4	162.2	161.5	160.9	160.3	159.6	160.3	160.9	161.5
115°	188.3	188.4	188.7	188.4	187.8	187.2	186.6	186.0	186.6	187.2	187.8
117.5°	214.4	215.1	215.6	215.5	214.7	213.9	213.0	212.2	213.0	213.9	214.7
120°	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7	230.5	231.3	232.1
122.5°	248.7	249.2	249.8	249.6	248.7	247.7	246.6	245.6	246.6	247.7	248.7
125°	274.0	274.3	274.6	274.3	273.4	272.5	271.5	270.6	271.5	272.5	273.4
127.5°	299.2	299.6	299.9	299.5	298.4	297.2	296.0	294.8	296.0	297.2	298.4
130°	315.6	315.8	316.0	315.4	314.1	312.7	311.4	310.1	311.4	312.7	314.1
132.5°	332.2	332.2	332.2	331.6	330.5	329.4	328.3	327.2	328.3	329.4	330.5
135°	355.7	355.5	355.3	354.7	353.5	352.4	351.2	350.1	351.2	352.4	353.5
137.5°	379.0	378.8	378.5	377.9	377.0	376.0	375.1	374.1	375.1	376.0	377.0
140°	394.1	393.6	393.1	392.4	391.4	390.5	389.6	388.7	389.6	390.5	391.4
142.5°	408.6	408.3	407.9	407.2	406.3	405.4	404.5	403.6	404.5	405.4	406.3
145°	429.7	429.1	428.5	427.9	427.1	426.4	425.7	424.9	425.7	426.4	427.1
147.5°	448.9	448.5	448.1	447.4	446.6	445.7	444.8	444.0	444.8	445.7	446.6
150°	460.8	460.4	460.0	459.5	458.9	458.3	457.6	457.1	457.6	458.3	458.9
152.5°	472.5	472.1	471.6	471.0	470.4	469.8	469.2	468.6	469.2	469.8	470.4
155°	488.0	487.7	487.4	487.1	486.7	486.5	486.2	485.8	486.2	486.5	486.7
157.5°	502.1	501.8	501.7	501.5	501.2	501.0	500.8	500.6	500.8	501.0	501.2
160°	510.7	510.6	510.5	510.4	510.1	510.0	509.7	509.6	509.7	510.0	510.1
162.5°	518.2	518.0	518.0	517.9	517.9	517.8	517.8	517.7	517.8	517.8	517.9
165°	528.2	528.2	528.2	528.2	528.3	528.4	528.5	528.6	528.5	528.4	528.3
167.5°	536.3	536.3	536.3	536.5	536.8	537.1	537.4	537.7	537.4	537.1	536.8
170°	540.9	541.0	541.1	541.4	541.6	541.9	542.3	542.6	542.3	541.9	541.6
172.5°	544.3	544.4	544.5	544.7	544.9	545.3	545.6	545.9	545.6	545.3	544.9
175°	548.1	548.3	548.5	548.8	549.1	549.3	549.7	550.0	549.7	549.3	549.1
177.5°	550.2	550.3	550.5	550.7	550.9	551.1	551.4	551.7	551.4	551.1	550.9
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	525.5	524.4	522.4	519.5	517.7	514.6	512.6	513.7	514.0	513.7	513.5
5°	511.4	507.4	502.1	496.8	492.0	486.9	483.9	482.7	480.0	478.6	477.8
7.5°	494.2	487.5	480.0	470.9	463.3	455.2	451.1	449.1	443.8	440.9	438.4
10°	481.5	470.9	463.3	451.5	444.3	433.7	426.5	426.7	419.5	415.4	412.5
12.5°	467.4	455.8	443.2	432.5	422.5	414.0	405.3	401.8	394.1	390.2	382.2
15°	444.1	430.6	417.3	402.8	392.6	379.4	366.9	351.5	339.1	328.3	325.4
17.5°	418.7	401.9	388.5	371.5	354.1	332.0	317.4	308.4	301.0	295.3	291.1
20°	401.1	384.1	369.8	344.3	320.7	305.7	295.1	288.1	280.4	274.3	270.9
22.5°	382.8	365.0	345.5	317.0	298.6	286.7	277.1	269.2	263.9	259.2	256.1
25°	356.7	337.2	305.2	285.6	270.8	258.1	251.5	246.7	241.2	234.6	231.7
27.5°	329.1	298.2	275.2	260.6	246.5	238.3	232.3	225.1	220.1	217.2	214.1
30°	308.5	277.6	259.7	243.7	233.7	224.6	217.6	213.5	208.7	203.7	201.7
32.5°	285.6	260.9	243.6	230.4	220.2	212.5	206.9	200.3	196.9	193.8	189.6
35°	257.1	238.3	222.6	211.9	202.2	195.9	189.5	185.6	179.3	176.7	175.0
37.5°	232.9	216.7	205.0	193.6	186.0	179.0	175.0	168.8	166.2	162.5	159.0
40°	219.2	203.3	192.1	182.8	174.2	169.1	164.1	159.1	155.0	153.4	149.1
42.5°	205.4	192.4	181.1	171.0	165.3	159.7	153.4	149.8	145.5	142.8	140.2
45°	186.1	174.6	165.0	156.7	150.3	144.6	140.6	134.4	132.1	126.7	124.4
47.5°	169.3	158.6	149.4	141.5	135.3	131.6	125.6	120.8	117.0	113.7	110.8
50°	157.3	148.3	139.4	132.4	126.9	121.5	115.4	113.0	107.0	105.3	103.7
52.5°	146.3	137.8	129.7	122.8	117.2	112.0	106.6	103.5	99.5	97.8	96.6
55°	130.9	122.8	115.0	108.9	103.4	98.0	94.7	90.7	88.9	87.6	86.1
57.5°	115.5	108.2	102.2	96.0	90.4	86.2	82.3	80.0	78.1	76.4	74.6
60°	105.7	98.7	93.4	87.6	81.9	78.4	75.4	72.6	70.4	67.8	67.0
62.5°	95.4	89.2	84.3	78.7	73.7	70.5	67.7	65.1	62.4	58.6	57.6
65°	81.1	76.3	71.1	66.4	62.0	58.9	54.8	51.9	50.7	50.4	50.2
67.5°	68.2	63.7	59.2	54.5	50.5	47.5	45.4	45.0	44.2	44.0	43.5
70°	59.6	55.4	51.0	46.5	42.6	42.1	41.3	40.5	39.6	39.3	38.9
72.5°	51.9	47.5	43.0	39.5	37.8	37.2	36.4	35.6	35.1	34.7	34.5
75°	39.8	35.7	32.8	31.5	30.6	30.0	28.9	28.4	28.0	27.4	27.2
77.5°	28.7	26.3	25.0	24.2	23.2	22.7	22.0	21.4	21.0	21.0	20.6
80°	21.9	20.7	19.8	18.7	18.3	17.6	17.4	16.9	17.0	16.5	16.5
82.5°	17.0	15.6	14.8	14.3	13.9	13.3	13.1	12.9	12.9	12.5	12.5
85°	8.7	8.3	8.0	7.6	7.6	7.0	7.3	7.0	7.0	6.7	6.5
87.5°	3.9	4.1	4.2	4.7	5.1	5.5	5.5	5.2	5.2	5.1	5.0
90°	5.5	7.2	9.5	11.7	14.0	16.3	16.1	15.9	15.7	15.4	15.4
92.5°	11.9	12.6	13.2	13.7	14.3	14.8	14.8	14.8	14.9	14.9	15.0
95°	28.3	28.9	29.1	29.4	29.5	29.8	29.8	29.8	29.8	29.8	29.7
97.5°	47.8	48.4	48.8	49.2	49.7	50.1	50.1	50.1	50.1	50.1	50.0
100°	62.4	62.9	63.3	63.5	63.8	64.2	64.2	64.2	64.2	64.2	64.1
102.5°	77.3	77.9	78.3	78.6	79.0	79.4	79.5	79.6	79.7	79.7	79.7
105°	101.2	101.4	101.7	101.8	102.1	102.3	102.5	102.7	102.9	103.1	103.2
107.5°	127.3	127.5	127.5	127.5	127.5	127.5	127.6	127.7	127.8	127.8	127.6
110°	144.3	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.5



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	162.2	162.4	162.3	162.2	162.2	162.1	161.8	161.6	161.3	161.1	160.9
115°	188.4	188.7	188.4	188.3	188.0	187.8	187.8	187.6	187.5	187.4	187.2
117.5°	215.5	215.6	215.1	214.4	213.9	213.3	213.0	212.8	212.5	212.3	212.1
120°	233.0	233.0	232.1	231.3	230.5	229.7	229.7	229.7	229.7	229.7	229.5
122.5°	249.6	249.8	249.2	248.7	248.1	247.5	247.3	247.0	246.8	246.5	246.3
125°	274.3	274.6	274.3	274.0	273.7	273.4	273.0	272.7	272.5	272.1	271.9
127.5°	299.5	299.9	299.6	299.2	298.9	298.5	298.1	297.7	297.3	297.0	296.6
130°	315.4	316.0	315.8	315.6	315.4	315.2	315.0	314.8	314.6	314.4	314.1
132.5°	331.6	332.2	332.2	332.2	332.3	332.3	331.9	331.4	330.9	330.5	330.1
135°	354.7	355.3	355.5	355.7	356.0	356.1	356.0	356.0	355.8	355.7	355.5
137.5°	377.9	378.5	378.8	379.0	379.3	379.5	379.4	379.4	379.3	379.2	379.0
140°	392.4	393.1	393.6	394.1	394.7	395.2	395.2	395.2	395.2	395.2	395.0
142.5°	407.2	407.9	408.3	408.6	409.0	409.3	409.4	409.4	409.5	409.6	409.4
145°	427.9	428.5	429.1	429.7	430.4	431.0	431.0	431.2	431.3	431.4	431.2
147.5°	447.4	448.1	448.5	448.9	449.3	449.8	450.0	450.2	450.5	450.7	450.6
150°	459.5	460.0	460.4	460.8	461.2	461.7	461.9	462.3	462.6	462.9	462.9
152.5°	471.0	471.6	472.1	472.5	473.0	473.6	473.9	474.3	474.7	475.2	475.2
155°	487.1	487.4	487.7	488.0	488.3	488.6	489.2	489.7	490.2	490.7	490.8
157.5°	501.5	501.7	501.8	502.1	502.2	502.4	503.1	503.8	504.5	505.2	505.3
160°	510.4	510.5	510.6	510.7	510.9	510.9	511.6	512.2	512.8	513.4	513.6
162.5°	517.9	518.0	518.0	518.2	518.3	518.4	519.1	519.8	520.5	521.2	521.3
165°	528.2	528.2	528.2	528.2	528.2	528.2	528.9	529.6	530.4	531.0	531.2
167.5°	536.5	536.3	536.3	536.3	536.2	536.2	537.0	537.7	538.4	539.2	539.2
170°	541.4	541.1	541.0	540.9	540.8	540.7	541.4	542.2	542.9	543.6	543.6
172.5°	544.7	544.5	544.4	544.3	544.1	544.0	544.8	545.5	546.3	546.9	547.0
175°	548.8	548.5	548.3	548.1	547.9	547.6	548.4	549.1	549.8	550.6	550.7
177.5°	550.7	550.5	550.3	550.2	550.0	549.8	550.3	550.8	551.3	551.8	551.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	511.8	512.1	511.7	511.9	511.7	512.1	511.8	513.5	513.7	514.0	513.7
5°	476.9	474.7	474.3	473.8	474.3	474.7	476.9	477.8	478.6	480.0	482.7
7.5°	435.2	434.9	433.9	432.6	433.9	434.9	435.2	438.4	440.9	443.8	449.1
10°	408.4	407.4	407.2	405.9	407.2	407.4	408.4	412.5	415.4	419.5	426.7
12.5°	376.9	371.0	370.4	367.1	370.4	371.0	376.9	382.2	390.2	394.1	401.8
15°	321.0	319.8	316.1	313.7	316.1	319.8	321.0	325.4	328.3	339.1	351.5
17.5°	288.9	285.3	284.1	283.6	284.1	285.3	288.9	291.1	295.3	301.0	308.4
20°	268.3	265.1	264.5	264.1	264.5	265.1	268.3	270.9	274.3	280.4	288.1
22.5°	254.1	250.6	249.2	248.1	249.2	250.6	254.1	256.1	259.2	263.9	269.2
25°	229.8	228.5	227.8	227.4	227.8	228.5	229.8	231.7	234.6	241.2	246.7
27.5°	210.8	208.0	207.4	206.4	207.4	208.0	210.8	214.1	217.2	220.1	225.1
30°	200.0	199.1	197.8	196.7	197.8	199.1	200.0	201.7	203.7	208.7	213.5
32.5°	187.3	186.5	185.3	184.8	185.3	186.5	187.3	189.6	193.8	196.9	200.3
35°	173.2	170.6	169.4	167.8	169.4	170.6	173.2	175.0	176.7	179.3	185.6
37.5°	158.2	156.9	155.3	155.9	155.3	156.9	158.2	159.0	162.5	166.2	168.8
40°	146.7	145.8	145.4	145.2	145.4	145.8	146.7	149.1	153.4	155.0	159.1
42.5°	137.5	134.9	134.0	134.0	134.0	134.9	137.5	140.2	142.8	145.5	149.8
45°	123.5	121.2	119.4	119.6	119.4	121.2	123.5	124.4	126.7	132.1	134.4
47.5°	109.3	109.2	108.1	108.4	108.1	109.2	109.3	110.8	113.7	117.0	120.8
50°	102.4	101.3	100.5	100.8	100.5	101.3	102.4	103.7	105.3	107.0	113.0
52.5°	95.9	94.9	94.3	95.1	94.3	94.9	95.9	96.6	97.8	99.5	103.5
55°	85.2	84.1	83.9	83.7	83.9	84.1	85.2	86.1	87.6	88.9	90.7
57.5°	73.2	72.5	71.3	70.9	71.3	72.5	73.2	74.6	76.4	78.1	80.0
60°	64.7	63.2	61.3	61.1	61.3	63.2	64.7	67.0	67.8	70.4	72.6
62.5°	56.7	56.5	56.1	56.1	56.1	56.5	56.7	57.6	58.6	62.4	65.1
65°	49.8	49.7	49.8	50.0	49.8	49.7	49.8	50.2	50.4	50.7	51.9
67.5°	43.4	43.0	42.7	42.9	42.7	43.0	43.4	43.5	44.0	44.2	45.0
70°	38.5	38.3	38.2	38.2	38.2	38.3	38.5	38.9	39.3	39.6	40.5
72.5°	33.8	33.8	33.6	33.4	33.6	33.8	33.8	34.5	34.7	35.1	35.6
75°	27.1	26.7	26.7	26.7	26.7	26.7	27.1	27.2	27.4	28.0	28.4
77.5°	20.6	20.4	20.2	20.1	20.2	20.4	20.6	20.6	21.0	21.0	21.4
80°	16.3	16.1	15.9	15.9	15.9	16.1	16.3	16.5	16.5	17.0	16.9
82.5°	12.5	12.2	12.2	12.1	12.2	12.2	12.5	12.5	12.5	12.9	12.9
85°	6.7	6.8	6.7	7.0	6.7	6.8	6.7	6.5	6.7	7.0	7.0
87.5°	5.1	4.9	5.1	5.0	5.1	4.9	5.1	5.0	5.1	5.2	5.2
90°	15.5	15.6	15.7	15.8	15.7	15.6	15.5	15.4	15.4	15.7	15.9
92.5°	15.0	15.0	15.1	15.1	15.1	15.0	15.0	15.0	14.9	14.9	14.8
95°	29.4	29.3	29.0	28.9	29.0	29.3	29.4	29.7	29.8	29.8	29.8
97.5°	50.0	50.0	50.0	49.9	50.0	50.0	50.0	50.0	50.1	50.1	50.1
100°	64.0	63.9	63.8	63.7	63.8	63.9	64.0	64.1	64.2	64.2	64.2
102.5°	79.7	79.5	79.4	79.3	79.4	79.5	79.7	79.7	79.7	79.7	79.6
105°	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.2	103.1	102.9	102.7
107.5°	127.1	126.7	126.2	125.7	126.2	126.7	127.1	127.6	127.8	127.8	127.7
110°	144.1	143.8	143.5	143.2	143.5	143.8	144.1	144.5	144.6	144.6	144.6



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	160.6	160.4	160.1	160.0	160.1	160.4	160.6	160.9	161.1	161.3	161.6
115°	186.9	186.6	186.3	186.0	186.3	186.6	186.9	187.2	187.4	187.5	187.6
117.5°	211.7	211.4	211.1	210.8	211.1	211.4	211.7	212.1	212.3	212.5	212.8
120°	229.2	228.9	228.6	228.3	228.6	228.9	229.2	229.5	229.7	229.7	229.7
122.5°	246.1	245.8	245.6	245.4	245.6	245.8	246.1	246.3	246.5	246.8	247.0
125°	271.8	271.7	271.6	271.5	271.6	271.7	271.8	271.9	272.1	272.5	272.7
127.5°	296.3	296.0	295.6	295.3	295.6	296.0	296.3	296.6	297.0	297.3	297.7
130°	313.6	313.2	312.8	312.4	312.8	313.2	313.6	314.1	314.4	314.6	314.8
132.5°	329.8	329.5	329.1	328.8	329.1	329.5	329.8	330.1	330.5	330.9	331.4
135°	355.2	354.9	354.6	354.2	354.6	354.9	355.2	355.5	355.7	355.8	356.0
137.5°	378.5	378.1	377.7	377.3	377.7	378.1	378.5	379.0	379.2	379.3	379.4
140°	394.5	394.1	393.7	393.3	393.7	394.1	394.5	395.0	395.2	395.2	395.2
142.5°	409.0	408.6	408.2	407.8	408.2	408.6	409.0	409.4	409.6	409.5	409.4
145°	430.8	430.4	430.0	429.6	430.0	430.4	430.8	431.2	431.4	431.3	431.2
147.5°	450.2	449.8	449.4	449.0	449.4	449.8	450.2	450.6	450.7	450.5	450.2
150°	462.6	462.3	461.9	461.7	461.9	462.3	462.6	462.9	462.9	462.6	462.3
152.5°	474.7	474.3	473.9	473.6	473.9	474.3	474.7	475.2	475.2	474.7	474.3
155°	490.5	490.2	489.8	489.6	489.8	490.2	490.5	490.8	490.7	490.2	489.7
157.5°	504.8	504.3	503.9	503.3	503.9	504.3	504.8	505.3	505.2	504.5	503.8
160°	513.1	512.7	512.3	511.8	512.3	512.7	513.1	513.6	513.4	512.8	512.2
162.5°	520.8	520.3	519.8	519.3	519.8	520.3	520.8	521.3	521.2	520.5	519.8
165°	530.6	530.1	529.6	529.0	529.6	530.1	530.6	531.2	531.0	530.4	529.6
167.5°	538.7	538.2	537.6	537.0	537.6	538.2	538.7	539.2	539.2	538.4	537.7
170°	543.0	542.4	541.8	541.2	541.8	542.4	543.0	543.6	543.6	542.9	542.2
172.5°	546.4	545.8	545.1	544.5	545.1	545.8	546.4	547.0	546.9	546.3	545.5
175°	550.0	549.3	548.8	548.1	548.8	549.3	550.0	550.7	550.6	549.8	549.1
177.5°	551.3	550.8	550.3	549.8	550.3	550.8	551.3	551.8	551.8	551.3	550.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	512.6	514.6	517.7	519.5	522.4	524.4	525.5	527.3	528.4	532.1	536.0
5°	483.9	486.9	492.0	496.8	502.1	507.4	511.4	515.8	519.8	526.8	534.3
7.5°	451.1	455.2	463.3	470.9	480.0	487.5	494.2	501.8	508.6	518.7	529.2
10°	426.5	433.7	444.3	451.5	463.3	470.9	481.5	489.8	499.3	512.7	524.5
12.5°	405.3	414.0	422.5	432.5	443.2	455.8	467.4	478.2	489.3	503.1	517.1
15°	366.9	379.4	392.6	402.8	417.3	430.6	444.1	458.5	472.2	488.8	506.9
17.5°	317.4	332.0	354.1	371.5	388.5	401.9	418.7	436.1	452.2	472.1	492.4
20°	295.1	305.7	320.7	344.3	369.8	384.1	401.1	420.4	438.9	460.6	482.2
22.5°	277.1	286.7	298.6	317.0	345.5	365.0	382.8	402.4	423.8	445.9	469.9
25°	251.5	258.1	270.8	285.6	305.2	337.2	356.7	376.3	399.7	423.4	450.8
27.5°	232.3	238.3	246.5	260.6	275.2	298.2	329.1	350.6	373.8	400.5	428.9
30°	217.6	224.6	233.7	243.7	259.7	277.6	308.5	333.4	356.3	383.8	414.1
32.5°	206.9	212.5	220.2	230.4	243.6	260.9	285.6	315.7	338.1	367.0	398.7
35°	189.5	195.9	202.2	211.9	222.6	238.3	257.1	289.3	311.5	340.0	371.9
37.5°	175.0	179.0	186.0	193.6	205.0	216.7	232.9	261.8	285.8	313.8	346.4
40°	164.1	169.1	174.2	182.8	192.1	203.3	219.2	240.8	268.3	295.8	327.6
42.5°	153.4	159.7	165.3	171.0	181.1	192.4	205.4	223.6	251.8	277.7	308.7
45°	140.6	144.6	150.3	156.7	165.0	174.6	186.1	202.0	229.1	251.5	280.5
47.5°	125.6	131.6	135.3	141.5	149.4	158.6	169.3	183.0	204.9	225.9	252.9
50°	115.4	121.5	126.9	132.4	139.4	148.3	157.3	170.6	188.2	210.2	235.4
52.5°	106.6	112.0	117.2	122.8	129.7	137.8	146.3	158.0	173.0	193.3	217.8
55°	94.7	98.0	103.4	108.9	115.0	122.8	130.9	140.7	153.7	170.7	190.5
57.5°	82.3	86.2	90.4	96.0	102.2	108.2	115.5	124.4	134.6	150.0	167.0
60°	75.4	78.4	81.9	87.6	93.4	98.7	105.7	113.2	122.8	136.2	150.6
62.5°	67.7	70.5	73.7	78.7	84.3	89.2	95.4	103.2	111.4	123.5	136.2
65°	54.8	58.9	62.0	66.4	71.1	76.3	81.1	87.4	94.7	104.3	115.5
67.5°	45.4	47.5	50.5	54.5	59.2	63.7	68.2	73.1	79.4	86.8	95.8
70°	41.3	42.1	42.6	46.5	51.0	55.4	59.6	64.2	69.6	75.7	83.5
72.5°	36.4	37.2	37.8	39.5	43.0	47.5	51.9	55.4	60.4	65.6	71.8
75°	28.9	30.0	30.6	31.5	32.8	35.7	39.8	43.1	46.1	50.0	55.0
77.5°	22.0	22.7	23.2	24.2	25.0	26.3	28.7	31.6	34.5	36.7	40.1
80°	17.4	17.6	18.3	18.7	19.8	20.7	21.9	24.3	27.1	28.0	30.4
82.5°	13.1	13.3	13.9	14.3	14.8	15.6	17.0	17.6	19.8	21.0	22.5
85°	7.3	7.0	7.6	7.6	8.0	8.3	8.7	9.6	10.2	11.7	12.1
87.5°	5.5	5.5	5.1	4.7	4.2	4.1	3.9	3.8	3.8	4.1	4.4
90°	16.1	16.3	14.0	11.7	9.5	7.2	5.5	4.2	2.9	1.7	0.5
92.5°	14.8	14.8	14.3	13.7	13.2	12.6	11.9	11.0	10.1	9.2	8.3
95°	29.8	29.8	29.5	29.4	29.1	28.9	28.3	27.3	26.3	25.2	24.2
97.5°	50.1	50.1	49.7	49.2	48.8	48.4	47.8	46.9	46.0	45.1	44.2
100°	64.2	64.2	63.8	63.5	63.3	62.9	62.4	61.6	60.7	59.8	59.0
102.5°	79.5	79.4	79.0	78.6	78.3	77.9	77.3	76.6	76.0	75.3	74.7
105°	102.5	102.3	102.1	101.8	101.7	101.4	101.2	100.9	100.6	100.3	100.0
107.5°	127.6	127.5	127.5	127.5	127.5	127.5	127.3	126.8	126.4	125.9	125.5
110°	144.6	144.6	144.6	144.6	144.6	144.6	144.3	143.7	143.0	142.4	141.8



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	161.8	162.1	162.2	162.2	162.3	162.4	162.2	161.5	160.9	160.3	159.6
115°	187.8	187.8	188.0	188.3	188.4	188.7	188.4	187.8	187.2	186.6	186.0
117.5°	213.0	213.3	213.9	214.4	215.1	215.6	215.5	214.7	213.9	213.0	212.2
120°	229.7	229.7	230.5	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7
122.5°	247.3	247.5	248.1	248.7	249.2	249.8	249.6	248.7	247.7	246.6	245.6
125°	273.0	273.4	273.7	274.0	274.3	274.6	274.3	273.4	272.5	271.5	270.6
127.5°	298.1	298.5	298.9	299.2	299.6	299.9	299.5	298.4	297.2	296.0	294.8
130°	315.0	315.2	315.4	315.6	315.8	316.0	315.4	314.1	312.7	311.4	310.1
132.5°	331.9	332.3	332.3	332.2	332.2	332.2	331.6	330.5	329.4	328.3	327.2
135°	356.0	356.1	356.0	355.7	355.5	355.3	354.7	353.5	352.4	351.2	350.1
137.5°	379.4	379.5	379.3	379.0	378.8	378.5	377.9	377.0	376.0	375.1	374.1
140°	395.2	395.2	394.7	394.1	393.6	393.1	392.4	391.4	390.5	389.6	388.7
142.5°	409.4	409.3	409.0	408.6	408.3	407.9	407.2	406.3	405.4	404.5	403.6
145°	431.0	431.0	430.4	429.7	429.1	428.5	427.9	427.1	426.4	425.7	424.9
147.5°	450.0	449.8	449.3	448.9	448.5	448.1	447.4	446.6	445.7	444.8	444.0
150°	461.9	461.7	461.2	460.8	460.4	460.0	459.5	458.9	458.3	457.6	457.1
152.5°	473.9	473.6	473.0	472.5	472.1	471.6	471.0	470.4	469.8	469.2	468.6
155°	489.2	488.6	488.3	488.0	487.7	487.4	487.1	486.7	486.5	486.2	485.8
157.5°	503.1	502.4	502.2	502.1	501.8	501.7	501.5	501.2	501.0	500.8	500.6
160°	511.6	510.9	510.9	510.7	510.6	510.5	510.4	510.1	510.0	509.7	509.6
162.5°	519.1	518.4	518.3	518.2	518.0	518.0	517.9	517.9	517.8	517.8	517.7
165°	528.9	528.2	528.2	528.2	528.2	528.2	528.2	528.3	528.4	528.5	528.6
167.5°	537.0	536.2	536.2	536.3	536.3	536.3	536.5	536.8	537.1	537.4	537.7
170°	541.4	540.7	540.8	540.9	541.0	541.1	541.4	541.6	541.9	542.3	542.6
172.5°	544.8	544.0	544.1	544.3	544.4	544.5	544.7	544.9	545.3	545.6	545.9
175°	548.4	547.6	547.9	548.1	548.3	548.5	548.8	549.1	549.3	549.7	550.0
177.5°	550.3	549.8	550.0	550.2	550.3	550.5	550.7	550.9	551.1	551.4	551.7
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	536.1	536.5	539.5	540.9	543.5	544.5	545.8	545.4	545.4	546.0	550.2
5°	537.3	541.0	546.5	551.9	557.1	561.5	564.5	567.4	568.6	573.9	578.7
7.5°	535.3	542.2	551.3	559.5	569.3	577.0	583.3	589.1	593.0	600.9	608.9
10°	532.8	542.4	552.8	563.4	576.9	587.1	597.5	605.4	608.0	619.6	626.3
12.5°	527.7	540.6	553.8	567.5	580.7	594.8	606.2	614.2	623.3	633.7	646.0
15°	520.2	535.0	552.3	569.8	588.7	605.8	618.0	631.9	641.9	653.4	664.1
17.5°	509.4	528.5	550.3	570.7	592.6	610.8	627.7	641.0	648.0	654.6	656.2
20°	500.8	521.3	547.1	571.1	593.0	614.1	630.8	641.9	643.8	643.9	634.1
22.5°	491.5	514.7	541.6	566.2	592.4	615.9	628.8	633.6	626.2	613.7	594.7
25°	474.3	501.2	532.5	560.6	589.1	611.3	615.8	607.5	581.7	554.6	520.4
27.5°	455.7	485.9	519.4	550.7	581.1	594.9	585.3	555.2	508.9	468.6	419.7
30°	442.1	476.0	508.9	543.9	572.1	578.0	556.0	511.7	457.6	396.9	348.1
32.5°	426.5	462.0	498.2	534.4	558.0	552.2	515.8	461.3	397.9	338.2	292.2
35°	404.3	440.9	480.0	516.3	531.3	506.3	451.8	380.9	316.1	260.4	228.7
37.5°	378.6	418.6	459.2	492.5	491.5	449.8	375.6	302.4	247.9	214.9	192.4
40°	360.4	400.8	444.7	472.8	460.8	406.5	326.1	257.1	217.2	190.9	174.5
42.5°	342.9	383.4	427.1	449.4	428.4	361.7	281.7	227.6	194.7	174.2	160.9
45°	313.2	356.0	396.3	408.7	371.3	297.8	227.8	188.5	166.6	151.5	142.3
47.5°	284.1	326.2	363.1	363.2	312.7	241.5	192.2	163.1	144.5	132.7	126.0
50°	266.3	306.3	337.2	332.4	275.0	214.8	171.9	146.8	131.3	122.2	115.2
52.5°	246.3	285.1	311.9	298.2	243.1	189.1	153.6	132.6	119.8	111.9	105.6
55°	217.2	251.7	270.6	249.8	198.4	157.3	129.8	113.3	103.7	97.0	91.6
57.5°	188.7	217.1	228.9	204.8	163.4	130.4	109.8	97.4	87.9	83.1	80.3
60°	170.7	195.0	203.3	176.7	142.0	114.1	97.3	85.8	78.7	75.6	72.8
62.5°	153.1	172.9	176.3	152.0	123.8	99.9	85.4	75.7	71.0	68.0	65.4
65°	127.0	141.3	139.7	120.0	98.0	79.2	68.7	62.8	59.3	55.0	50.4
67.5°	104.6	113.3	108.0	93.4	74.8	61.6	54.7	50.2	45.8	41.8	40.8
70°	90.3	95.4	89.8	76.3	61.3	51.7	46.1	40.8	38.2	37.3	35.5
72.5°	76.7	78.5	72.5	60.9	49.9	42.8	37.3	34.4	32.9	32.2	31.1
75°	57.6	56.3	51.1	42.1	34.7	29.8	28.1	27.1	26.1	25.4	24.8
77.5°	40.4	38.6	33.9	28.0	24.1	21.9	20.8	20.2	19.8	19.4	18.8
80°	30.4	29.1	24.5	20.0	18.3	17.2	16.6	15.9	15.9	15.6	15.0
82.5°	22.3	20.8	16.7	14.7	13.8	13.0	12.6	12.2	12.1	12.1	11.7
85°	11.7	9.5	8.3	8.0	7.4	7.0	7.3	6.8	6.8	6.8	6.7
87.5°	3.9	3.4	3.5	3.6	4.1	4.6	4.9	5.3	6.0	5.7	5.9
90°	1.7	2.9	4.2	5.5	7.2	9.5	11.7	14.0	16.3	16.1	15.9
92.5°	9.2	10.1	11.0	11.9	12.6	13.2	13.7	14.3	14.8	14.8	14.8
95°	25.2	26.3	27.3	28.3	28.9	29.1	29.4	29.5	29.8	29.8	29.8
97.5°	45.1	46.0	46.9	47.8	48.4	48.8	49.2	49.7	50.1	50.1	50.1
100°	59.8	60.7	61.6	62.4	62.9	63.3	63.5	63.8	64.2	64.2	64.2
102.5°	75.3	76.0	76.6	77.3	77.9	78.3	78.6	79.0	79.4	79.5	79.6
105°	100.3	100.6	100.9	101.2	101.4	101.7	101.8	102.1	102.3	102.5	102.7
107.5°	125.9	126.4	126.8	127.3	127.5	127.5	127.5	127.5	127.5	127.6	127.7
110°	142.4	143.0	143.7	144.3	144.6	144.6	144.6	144.6	144.6	144.6	144.6



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	160.3	160.9	161.5	162.2	162.4	162.3	162.2	162.2	162.1	161.8	161.6
115°	186.6	187.2	187.8	188.4	188.7	188.4	188.3	188.0	187.8	187.8	187.6
117.5°	213.0	213.9	214.7	215.5	215.6	215.1	214.4	213.9	213.3	213.0	212.8
120°	230.5	231.3	232.1	233.0	233.0	232.1	231.3	230.5	229.7	229.7	229.7
122.5°	246.6	247.7	248.7	249.6	249.8	249.2	248.7	248.1	247.5	247.3	247.0
125°	271.5	272.5	273.4	274.3	274.6	274.3	274.0	273.7	273.4	273.0	272.7
127.5°	296.0	297.2	298.4	299.5	299.9	299.6	299.2	298.9	298.5	298.1	297.7
130°	311.4	312.7	314.1	315.4	316.0	315.8	315.6	315.4	315.2	315.0	314.8
132.5°	328.3	329.4	330.5	331.6	332.2	332.2	332.2	332.3	332.3	331.9	331.4
135°	351.2	352.4	353.5	354.7	355.3	355.5	355.7	356.0	356.1	356.0	356.0
137.5°	375.1	376.0	377.0	377.9	378.5	378.8	379.0	379.3	379.5	379.4	379.4
140°	389.6	390.5	391.4	392.4	393.1	393.6	394.1	394.7	395.2	395.2	395.2
142.5°	404.5	405.4	406.3	407.2	407.9	408.3	408.6	409.0	409.3	409.4	409.4
145°	425.7	426.4	427.1	427.9	428.5	429.1	429.7	430.4	431.0	431.0	431.2
147.5°	444.8	445.7	446.6	447.4	448.1	448.5	448.9	449.3	449.8	450.0	450.2
150°	457.6	458.3	458.9	459.5	460.0	460.4	460.8	461.2	461.7	461.9	462.3
152.5°	469.2	469.8	470.4	471.0	471.6	472.1	472.5	473.0	473.6	473.9	474.3
155°	486.2	486.5	486.7	487.1	487.4	487.7	488.0	488.3	488.6	489.2	489.7
157.5°	500.8	501.0	501.2	501.5	501.7	501.8	502.1	502.2	502.4	503.1	503.8
160°	509.7	510.0	510.1	510.4	510.5	510.6	510.7	510.9	510.9	511.6	512.2
162.5°	517.8	517.8	517.9	517.9	518.0	518.0	518.2	518.3	518.4	519.1	519.8
165°	528.5	528.4	528.3	528.2	528.2	528.2	528.2	528.2	528.2	528.9	529.6
167.5°	537.4	537.1	536.8	536.5	536.3	536.3	536.3	536.2	536.2	537.0	537.7
170°	542.3	541.9	541.6	541.4	541.1	541.0	540.9	540.8	540.7	541.4	542.2
172.5°	545.6	545.3	544.9	544.7	544.5	544.4	544.3	544.1	544.0	544.8	545.5
175°	549.7	549.3	549.1	548.8	548.5	548.3	548.1	547.9	547.6	548.4	549.1
177.5°	551.4	551.1	550.9	550.7	550.5	550.3	550.2	550.0	549.8	550.3	550.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9	550.9



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	533.0	533.0	533.0	533.0	533.0	533.0	533.0
2.5°	551.6	553.6	554.5	554.5	555.5	555.1	554.6
5°	583.3	586.9	587.7	590.9	593.4	592.6	593.0
7.5°	614.9	620.5	626.1	628.7	629.1	630.6	631.1
10°	634.3	639.0	647.6	646.4	652.8	656.6	650.4
12.5°	653.0	659.3	665.3	666.9	670.6	671.8	669.4
15°	669.8	673.2	673.5	672.6	673.8	672.8	669.3
17.5°	654.1	648.7	637.7	632.5	628.4	622.3	619.9
20°	628.0	612.0	593.5	586.1	577.5	560.4	564.5
22.5°	571.7	553.6	535.0	513.4	503.0	486.9	485.9
25°	484.1	452.8	418.3	394.3	380.2	364.1	357.0
27.5°	376.4	337.0	308.8	294.5	281.4	268.7	268.2
30°	305.6	276.0	254.1	241.9	233.9	228.5	229.7
32.5°	257.6	237.3	222.5	212.4	206.5	202.4	202.4
35°	210.6	196.7	187.2	183.0	178.7	175.8	175.9
37.5°	180.2	171.9	166.6	161.9	159.2	157.8	156.9
40°	164.6	157.8	153.7	150.9	148.7	146.7	146.3
42.5°	152.4	146.7	142.6	140.4	138.4	136.9	136.6
45°	135.2	130.5	126.9	124.4	123.5	122.2	122.2
47.5°	120.3	115.7	112.8	111.3	109.7	108.8	108.8
50°	110.2	106.6	104.1	103.1	101.8	101.3	101.1
52.5°	101.2	98.5	96.7	96.0	95.5	94.8	94.9
55°	88.9	87.4	86.7	86.1	85.2	84.1	84.8
57.5°	78.6	77.3	75.3	73.5	72.7	71.9	72.2
60°	71.3	68.7	66.1	64.1	63.5	61.9	61.9
62.5°	62.1	58.5	55.3	54.1	53.6	52.8	52.7
65°	47.8	46.3	45.6	44.8	44.4	44.4	44.1
67.5°	39.6	39.0	38.2	38.0	37.7	37.5	37.4
70°	35.0	34.2	33.9	33.7	33.3	33.5	32.9
72.5°	30.6	30.0	29.9	29.4	29.2	29.2	28.8
75°	24.1	24.1	23.9	23.7	23.3	23.2	23.3
77.5°	18.5	18.6	18.3	18.2	18.2	18.2	18.0
80°	14.8	15.0	14.8	14.6	14.4	14.6	14.4
82.5°	11.7	11.4	11.4	11.3	11.3	11.3	11.2
85°	6.7	6.8	6.7	6.5	6.5	6.5	6.7
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.5
90°	15.7	15.4	15.4	15.5	15.6	15.7	15.8
92.5°	14.9	14.9	15.0	15.0	15.0	15.1	15.1
95°	29.8	29.8	29.7	29.4	29.3	29.0	28.9
97.5°	50.1	50.1	50.0	50.0	50.0	50.0	49.9
100°	64.2	64.2	64.1	64.0	63.9	63.8	63.7
102.5°	79.7	79.7	79.7	79.7	79.5	79.4	79.3
105°	102.9	103.1	103.2	103.2	103.2	103.2	103.2
107.5°	127.8	127.8	127.6	127.1	126.7	126.2	125.7
110°	144.6	144.6	144.5	144.1	143.8	143.5	143.2



TEST NUMBER: P331622-930

CATALOG NUMBER: SA2XXRDIP-C290D530U930-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	161.3	161.1	160.9	160.6	160.4	160.1	160.0
115°	187.5	187.4	187.2	186.9	186.6	186.3	186.0
117.5°	212.5	212.3	212.1	211.7	211.4	211.1	210.8
120°	229.7	229.7	229.5	229.2	228.9	228.6	228.3
122.5°	246.8	246.5	246.3	246.1	245.8	245.6	245.4
125°	272.5	272.1	271.9	271.8	271.7	271.6	271.5
127.5°	297.3	297.0	296.6	296.3	296.0	295.6	295.3
130°	314.6	314.4	314.1	313.6	313.2	312.8	312.4
132.5°	330.9	330.5	330.1	329.8	329.5	329.1	328.8
135°	355.8	355.7	355.5	355.2	354.9	354.6	354.2
137.5°	379.3	379.2	379.0	378.5	378.1	377.7	377.3
140°	395.2	395.2	395.0	394.5	394.1	393.7	393.3
142.5°	409.5	409.6	409.4	409.0	408.6	408.2	407.8
145°	431.3	431.4	431.2	430.8	430.4	430.0	429.6
147.5°	450.5	450.7	450.6	450.2	449.8	449.4	449.0
150°	462.6	462.9	462.9	462.6	462.3	461.9	461.7
152.5°	474.7	475.2	475.2	474.7	474.3	473.9	473.6
155°	490.2	490.7	490.8	490.5	490.2	489.8	489.6
157.5°	504.5	505.2	505.3	504.8	504.3	503.9	503.3
160°	512.8	513.4	513.6	513.1	512.7	512.3	511.8
162.5°	520.5	521.2	521.3	520.8	520.3	519.8	519.3
165°	530.4	531.0	531.2	530.6	530.1	529.6	529.0
167.5°	538.4	539.2	539.2	538.7	538.2	537.6	537.0
170°	542.9	543.6	543.6	543.0	542.4	541.8	541.2
172.5°	546.3	546.9	547.0	546.4	545.8	545.1	544.5
175°	549.8	550.6	550.7	550.0	549.3	548.8	548.1
177.5°	551.3	551.8	551.8	551.3	550.8	550.3	549.8
180°	550.9	550.9	550.9	550.9	550.9	550.9	550.9

(END OF REPORT)