

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: P331617-927

Luminaire Tested: **SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331617-927
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: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 330 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

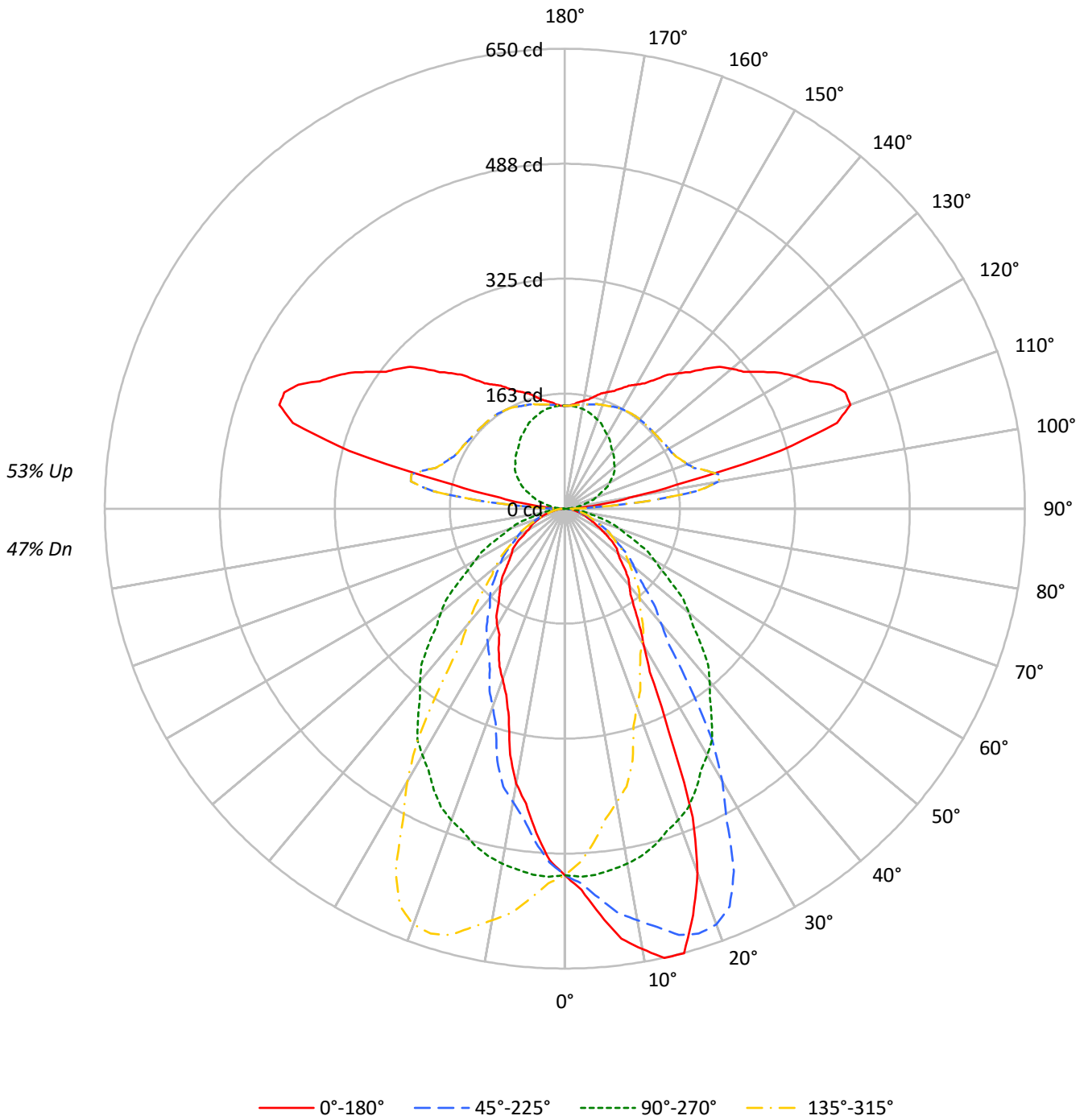
Lumens per Lamp: N/A
Luminaire Lumens: 1909.2 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	98	94	90	87	90	86	83	81	73	70	68	60	58	57	48	47	46	41
2	90	83	77	72	82	76	72	67	65	61	58	54	51	49	43	42	40	36
3	82	73	67	61	76	68	62	57	58	53	50	48	45	42	39	37	35	31
4	76	66	58	52	70	61	54	49	52	47	43	43	40	37	36	33	31	27
5	70	59	51	46	64	55	48	43	47	42	38	39	36	33	32	30	28	24
6	65	53	45	40	59	49	43	38	42	37	33	36	32	29	30	27	25	22
7	60	48	41	35	55	45	38	34	39	34	30	33	29	26	27	25	22	20
8	56	44	37	32	51	41	35	30	36	30	27	30	26	24	25	23	20	18
9	52	40	33	28	48	38	31	27	33	28	24	28	24	21	24	21	19	17
10	49	37	30	26	45	35	29	24	30	25	22	26	22	20	22	19	17	15

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	2.6
10°-20°	136.8	7.2
20°-30°	176.3	9.2
30°-40°	167.5	8.8
40°-50°	143.5	7.5
50°-60°	109.3	5.7
60°-70°	69.1	3.6
70°-80°	34.5	1.8
80°-90°	10.3	0.5
90°-100°	58.2	3.0
100°-110°	197.5	10.3
110°-120°	209.8	11.0
120°-130°	172.7	9.0
130°-140°	138.7	7.3
140°-150°	104.8	5.5
150°-160°	73.7	3.9
160°-170°	43.4	2.3
170°-180°	14.1	0.7
0°-30°	362.2	19.0
0°-40°	529.7	27.7
0°-60°	782.5	41.0
0°-90°	896.3	46.9
90°-120°	465.5	24.4
90°-150°	881.7	46.2
90°-180°	1013.0	53.1
0°-180°	1909.2	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°	9	0	9	0	9	5
95°	32	10	32	10	32	41
105°	315	34	315	34	315	305
115°	415	60	415	60	415	406
125°	337	84	337	84	337	304
135°	279	98	279	98	279	217
145°	223	112	223	112	223	142
155°	187	128	187	128	187	87
165°	164	139	164	139	164	47
175°	148	145	148	145	148	14
180°	146	146	146	146	146	



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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°	4.1	4.3	4.3	4.3	4.3	4.3	4.1	4.4	4.3	4.5	4.3
90°	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0	9.3	9.5	9.3
92.5°	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4	30.7	36.4	35.9
95°	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4	96.0	109.7	97.1
97.5°	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1	196.5	187.3	141.1
100°	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6	261.4	221.1	152.3
102.5°	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9	285.6	222.2	148.0
105°	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1	281.9	207.4	139.7
107.5°	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0	257.3	191.5	135.5
110°	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9	241.9	183.9	134.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3	231.1	179.0	134.8
115°	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0	217.8	173.6	136.0
117.5°	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6	209.4	170.9	138.1
120°	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0	204.9	169.4	139.4
122.5°	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0	201.1	168.4	140.9
125°	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2	195.7	166.8	143.3
127.5°	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5	190.6	165.9	145.7
130°	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9	187.3	165.4	147.5
132.5°	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5	184.6	165.2	149.3
135°	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0	180.8	164.9	151.5
137.5°	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1	178.2	164.8	153.4
140°	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2	176.6	164.6	154.2
142.5°	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1	175.1	164.6	154.9
145°	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6	173.0	164.0	155.6
147.5°	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2	170.9	163.0	155.8
150°	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8	169.1	162.3	155.6
152.5°	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3	167.5	161.2	155.2
155°	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9	164.6	159.2	154.5
157.5°	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0	161.8	157.2	153.2
160°	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4	159.8	155.9	152.6
162.5°	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0	158.0	154.8	151.9
165°	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3	155.0	152.6	150.6
167.5°	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8	152.2	150.6	149.3
170°	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0	150.6	149.5	148.6
172.5°	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0	149.0	148.1	147.7
175°	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8	146.9	146.6	146.4
177.5°	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2	145.8	145.5	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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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°	4.0	3.7	3.4	3.1	3.2	3.2	3.6	4.2	3.8	3.6	3.4
90°	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3	1.1	2.2	2.8
92.5°	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4	4.9	7.0	8.2
95°	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8	10.9	13.7	16.2
97.5°	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9	17.4	20.4	24.2
100°	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5	22.4	24.9	29.4
102.5°	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7	27.3	29.9	34.3
105°	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1	35.3	37.2	41.4
107.5°	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2	43.1	45.0	48.9
110°	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6	48.7	50.4	54.0



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5	53.6	55.5	58.9
115°	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2	61.6	63.3	66.6
117.5°	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1	69.2	70.9	73.9
120°	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0	74.1	75.9	78.3
122.5°	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8	78.7	80.3	83.1
125°	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0	84.8	86.5	89.8
127.5°	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9	90.0	92.4	96.1
130°	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8	92.9	95.7	99.7
132.5°	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5	95.9	98.9	103.0
135°	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5	99.7	103.0	107.2
137.5°	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3	103.7	107.0	111.5
140°	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3	106.4	109.7	114.2
142.5°	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1	109.1	112.2	116.7
145°	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5	113.7	116.5	120.6
147.5°	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2	118.0	120.7	124.6
150°	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3	121.2	123.4	127.1
152.5°	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5	123.9	126.1	129.3
155°	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9	128.2	129.8	132.9
157.5°	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6	131.9	133.2	135.9
160°	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0	134.4	135.5	137.7
162.5°	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6	136.3	137.5	139.3
165°	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4	139.1	139.7	141.3
167.5°	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7	141.4	141.9	143.0
170°	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3	142.8	143.1	143.9
172.5°	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2	143.9	143.7	144.6
175°	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3	145.0	144.7	145.3
177.5°	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8	145.3	145.1	145.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

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°	3.4	3.4	3.4	3.8	4.1	4.0	4.0	3.8	3.7	3.8	3.7
90°	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0	8.4	9.0	9.3
92.5°	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4	20.9	18.6	16.9
95°	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4	56.2	44.5	38.3
97.5°	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1	140.0	109.7	89.5
100°	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6	220.9	182.5	148.6
102.5°	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9	303.0	275.0	239.1
105°	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1	371.7	375.3	366.1
107.5°	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0	366.7	395.8	409.3
110°	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9	351.0	386.8	409.8



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3	332.4	370.7	397.0
115°	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0	307.0	343.7	372.6
117.5°	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6	286.5	319.7	346.7
120°	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0	275.7	305.4	330.8
122.5°	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0	266.7	294.9	317.8
125°	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2	255.0	279.6	300.6
127.5°	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5	243.6	266.8	286.1
130°	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9	236.0	258.1	276.6
132.5°	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5	228.8	249.1	266.5
135°	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0	217.5	236.0	251.6
137.5°	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1	208.5	223.2	236.8
140°	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2	202.6	215.6	227.8
142.5°	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1	197.5	208.6	218.9
145°	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6	190.9	199.6	207.7
147.5°	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2	185.5	192.3	198.2
150°	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8	182.0	187.8	192.8
152.5°	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3	179.0	184.0	188.4
155°	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9	174.4	178.6	181.6
157.5°	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0	169.7	173.2	175.6
160°	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4	166.5	169.6	171.6
162.5°	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0	163.7	166.3	167.8
165°	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3	159.2	161.2	162.3
167.5°	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8	155.3	156.6	157.6
170°	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0	152.8	153.9	154.5
172.5°	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0	150.6	151.5	151.8
175°	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8	148.1	148.4	148.6
177.5°	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2	146.2	146.5	146.5
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

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°	3.7	3.6	3.7	3.6	3.7	3.6	3.7	3.7	3.8	3.7	3.8
90°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.0	8.4	9.0
92.5°	16.6	15.8	15.9	15.5	15.9	15.8	16.6	16.9	18.6	20.9	24.4
95°	34.7	32.5	31.6	31.9	31.6	32.5	34.7	38.3	44.5	56.2	73.4
97.5°	76.1	69.2	65.2	62.8	65.2	69.2	76.1	89.5	109.7	140.0	171.1
100°	125.4	113.4	105.3	100.2	105.3	113.4	125.4	148.6	182.5	220.9	255.6
102.5°	213.8	193.3	183.2	176.3	183.2	193.3	213.8	239.1	275.0	303.0	310.9
105°	348.7	331.4	319.3	315.4	319.3	331.4	348.7	366.1	375.3	371.7	340.1
107.5°	411.5	410.6	408.1	403.0	408.1	410.6	411.5	409.3	395.8	366.7	319.0
110°	421.8	427.1	429.7	429.4	429.7	427.1	421.8	409.8	386.8	351.0	300.9



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	413.8	422.6	427.4	428.9	427.4	422.6	413.8	397.0	370.7	332.4	284.3
115°	392.4	405.3	412.6	415.1	412.6	405.3	392.4	372.6	343.7	307.0	264.0
117.5°	367.0	380.6	388.2	390.4	388.2	380.6	367.0	346.7	319.7	286.5	248.6
120°	350.5	363.6	371.7	374.5	371.7	363.6	350.5	330.8	305.4	275.7	241.0
122.5°	335.4	348.4	355.6	357.9	355.6	348.4	335.4	317.8	294.9	266.7	235.0
125°	316.9	327.5	334.5	336.8	334.5	327.5	316.9	300.6	279.6	255.0	226.2
127.5°	300.3	310.3	316.3	318.1	316.3	310.3	300.3	286.1	266.8	243.6	217.5
130°	290.3	299.8	305.4	307.6	305.4	299.8	290.3	276.6	258.1	236.0	211.9
132.5°	280.0	289.5	294.6	296.7	294.6	289.5	280.0	266.5	249.1	228.8	206.5
135°	263.6	272.9	278.0	279.1	278.0	272.9	263.6	251.6	236.0	217.5	199.0
137.5°	247.8	255.7	260.2	261.8	260.2	255.7	247.8	236.8	223.2	208.5	193.1
140°	236.8	244.1	248.3	249.9	248.3	244.1	236.8	227.8	215.6	202.6	189.2
142.5°	227.4	234.0	237.7	238.1	237.7	234.0	227.4	218.9	208.6	197.5	186.1
145°	214.4	219.2	222.0	222.8	222.0	219.2	214.4	207.7	199.6	190.9	181.6
147.5°	203.7	207.6	209.5	210.0	209.5	207.6	203.7	198.2	192.3	185.5	178.2
150°	197.0	200.4	202.1	202.4	202.1	200.4	197.0	192.8	187.8	182.0	175.8
152.5°	191.7	194.6	195.8	195.9	195.8	194.6	191.7	188.4	184.0	179.0	173.3
155°	184.7	186.7	187.8	187.3	187.8	186.7	184.7	181.6	178.6	174.4	169.9
157.5°	177.8	179.4	179.9	179.9	179.9	179.4	177.8	175.6	173.2	169.7	166.0
160°	173.6	174.9	175.2	175.2	175.2	174.9	173.6	171.6	169.6	166.5	163.4
162.5°	169.8	170.7	171.0	170.7	171.0	170.7	169.8	167.8	166.3	163.7	161.0
165°	163.4	164.6	164.6	164.3	164.6	164.6	163.4	162.3	161.2	159.2	157.3
167.5°	158.1	158.8	158.7	158.4	158.7	158.8	158.1	157.6	156.6	155.3	153.8
170°	154.8	155.6	155.3	154.8	155.3	155.6	154.8	154.5	153.9	152.8	152.0
172.5°	152.1	152.5	152.2	151.9	152.2	152.5	152.1	151.8	151.5	150.6	150.0
175°	148.6	148.9	148.6	148.1	148.6	148.9	148.6	148.6	148.4	148.1	147.8
177.5°	146.5	146.5	146.2	145.8	146.2	146.5	146.5	146.5	146.5	146.2	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

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°	4.0	4.0	4.1	3.8	3.4	3.4	3.4	3.4	3.6	3.8	4.2
90°	9.3	9.5	9.3	7.5	5.6	4.2	3.3	2.8	2.2	1.1	0.3
92.5°	30.7	36.4	35.9	28.0	19.0	12.7	10.1	8.2	7.0	4.9	3.4
95°	96.0	109.7	97.1	64.6	40.3	27.4	20.7	16.2	13.7	10.9	9.8
97.5°	196.5	187.3	141.1	87.1	53.2	37.0	29.4	24.2	20.4	17.4	15.9
100°	261.4	221.1	152.3	91.8	57.7	42.9	35.0	29.4	24.9	22.4	21.5
102.5°	285.6	222.2	148.0	92.1	61.7	48.0	40.2	34.3	29.9	27.3	26.7
105°	281.9	207.4	139.7	93.5	68.6	55.5	47.6	41.4	37.2	35.3	34.1
107.5°	257.3	191.5	135.5	97.4	75.7	62.9	55.0	48.9	45.0	43.1	42.2
110°	241.9	183.9	134.7	100.4	80.3	68.0	59.9	54.0	50.4	48.7	47.6



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	231.1	179.0	134.8	103.9	84.8	73.0	64.6	58.9	55.5	53.6	52.5
115°	217.8	173.6	136.0	108.8	91.8	79.8	72.2	66.6	63.3	61.6	60.2
117.5°	209.4	170.9	138.1	114.2	98.2	87.1	79.3	73.9	70.9	69.2	68.1
120°	204.9	169.4	139.4	117.9	102.7	91.8	84.0	78.3	75.9	74.1	73.0
122.5°	201.1	168.4	140.9	121.0	106.9	96.7	88.6	83.1	80.3	78.7	77.8
125°	195.7	166.8	143.3	126.0	113.4	103.3	95.5	89.8	86.5	84.8	84.0
127.5°	190.6	165.9	145.7	130.6	119.3	109.5	101.4	96.1	92.4	90.0	88.9
130°	187.3	165.4	147.5	133.5	122.9	113.0	105.3	99.7	95.7	92.9	91.8
132.5°	184.6	165.2	149.3	136.4	126.0	116.7	108.8	103.0	98.9	95.9	94.5
135°	180.8	164.9	151.5	140.2	130.5	121.4	113.7	107.2	103.0	99.7	98.5
137.5°	178.2	164.8	153.4	143.1	134.0	125.2	117.9	111.5	107.0	103.7	102.3
140°	176.6	164.6	154.2	144.7	136.0	127.6	120.3	114.2	109.7	106.4	105.3
142.5°	175.1	164.6	154.9	146.1	137.6	129.4	122.6	116.7	112.2	109.1	108.1
145°	173.0	164.0	155.6	147.8	140.0	132.4	126.3	120.6	116.5	113.7	112.5
147.5°	170.9	163.0	155.8	148.8	141.9	134.8	129.3	124.6	120.7	118.0	117.2
150°	169.1	162.3	155.6	149.2	142.8	136.3	131.3	127.1	123.4	121.2	120.3
152.5°	167.5	161.2	155.2	149.4	143.6	137.8	133.3	129.3	126.1	123.9	123.5
155°	164.6	159.2	154.5	149.7	145.0	140.2	136.0	132.9	129.8	128.2	127.9
157.5°	161.8	157.2	153.2	149.7	145.9	141.9	138.4	135.9	133.2	131.9	131.6
160°	159.8	155.9	152.6	149.7	146.4	143.1	140.0	137.7	135.5	134.4	134.0
162.5°	158.0	154.8	151.9	149.5	146.6	143.7	141.3	139.3	137.5	136.3	136.6
165°	155.0	152.6	150.6	148.9	146.9	144.4	142.8	141.3	139.7	139.1	139.4
167.5°	152.2	150.6	149.3	148.5	146.9	145.0	144.0	143.0	141.9	141.4	141.7
170°	150.6	149.5	148.6	148.1	146.6	145.3	144.4	143.9	143.1	142.8	143.3
172.5°	149.0	148.1	147.7	147.4	146.5	145.5	144.9	144.6	143.7	143.9	144.2
175°	146.9	146.6	146.4	146.6	146.1	145.5	145.3	145.3	144.7	145.0	145.3
177.5°	145.8	145.5	145.8	146.2	145.8	145.5	145.5	145.5	145.1	145.3	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

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°	3.6	3.2	3.2	3.1	3.4	3.7	4.0	4.3	4.5	4.3	4.4
90°	1.1	2.2	2.8	3.3	4.2	5.6	7.5	9.3	9.5	9.3	9.0
92.5°	4.9	7.0	8.2	10.1	12.7	19.0	28.0	35.9	36.4	30.7	24.4
95°	10.9	13.7	16.2	20.7	27.4	40.3	64.6	97.1	109.7	96.0	73.4
97.5°	17.4	20.4	24.2	29.4	37.0	53.2	87.1	141.1	187.3	196.5	171.1
100°	22.4	24.9	29.4	35.0	42.9	57.7	91.8	152.3	221.1	261.4	255.6
102.5°	27.3	29.9	34.3	40.2	48.0	61.7	92.1	148.0	222.2	285.6	310.9
105°	35.3	37.2	41.4	47.6	55.5	68.6	93.5	139.7	207.4	281.9	340.1
107.5°	43.1	45.0	48.9	55.0	62.9	75.7	97.4	135.5	191.5	257.3	319.0
110°	48.7	50.4	54.0	59.9	68.0	80.3	100.4	134.7	183.9	241.9	300.9



TEST NUMBER: P331617-927

CATALOG NUMBER: SA2XXRDIP-C290D330U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	53.6	55.5	58.9	64.6	73.0	84.8	103.9	134.8	179.0	231.1	284.3
115°	61.6	63.3	66.6	72.2	79.8	91.8	108.8	136.0	173.6	217.8	264.0
117.5°	69.2	70.9	73.9	79.3	87.1	98.2	114.2	138.1	170.9	209.4	248.6
120°	74.1	75.9	78.3	84.0	91.8	102.7	117.9	139.4	169.4	204.9	241.0
122.5°	78.7	80.3	83.1	88.6	96.7	106.9	121.0	140.9	168.4	201.1	235.0
125°	84.8	86.5	89.8	95.5	103.3	113.4	126.0	143.3	166.8	195.7	226.2
127.5°	90.0	92.4	96.1	101.4	109.5	119.3	130.6	145.7	165.9	190.6	217.5
130°	92.9	95.7	99.7	105.3	113.0	122.9	133.5	147.5	165.4	187.3	211.9
132.5°	95.9	98.9	103.0	108.8	116.7	126.0	136.4	149.3	165.2	184.6	206.5
135°	99.7	103.0	107.2	113.7	121.4	130.5	140.2	151.5	164.9	180.8	199.0
137.5°	103.7	107.0	111.5	117.9	125.2	134.0	143.1	153.4	164.8	178.2	193.1
140°	106.4	109.7	114.2	120.3	127.6	136.0	144.7	154.2	164.6	176.6	189.2
142.5°	109.1	112.2	116.7	122.6	129.4	137.6	146.1	154.9	164.6	175.1	186.1
145°	113.7	116.5	120.6	126.3	132.4	140.0	147.8	155.6	164.0	173.0	181.6
147.5°	118.0	120.7	124.6	129.3	134.8	141.9	148.8	155.8	163.0	170.9	178.2
150°	121.2	123.4	127.1	131.3	136.3	142.8	149.2	155.6	162.3	169.1	175.8
152.5°	123.9	126.1	129.3	133.3	137.8	143.6	149.4	155.2	161.2	167.5	173.3
155°	128.2	129.8	132.9	136.0	140.2	145.0	149.7	154.5	159.2	164.6	169.9
157.5°	131.9	133.2	135.9	138.4	141.9	145.9	149.7	153.2	157.2	161.8	166.0
160°	134.4	135.5	137.7	140.0	143.1	146.4	149.7	152.6	155.9	159.8	163.4
162.5°	136.3	137.5	139.3	141.3	143.7	146.6	149.5	151.9	154.8	158.0	161.0
165°	139.1	139.7	141.3	142.8	144.4	146.9	148.9	150.6	152.6	155.0	157.3
167.5°	141.4	141.9	143.0	144.0	145.0	146.9	148.5	149.3	150.6	152.2	153.8
170°	142.8	143.1	143.9	144.4	145.3	146.6	148.1	148.6	149.5	150.6	152.0
172.5°	143.9	143.7	144.6	144.9	145.5	146.5	147.4	147.7	148.1	149.0	150.0
175°	145.0	144.7	145.3	145.3	145.5	146.1	146.6	146.4	146.6	146.9	147.8
177.5°	145.3	145.1	145.5	145.5	145.5	145.8	146.2	145.8	145.5	145.8	146.2
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5	145.5



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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°	4.1	4.3	4.3	4.3	4.3	4.3	4.1
90°	8.4	9.0	9.3	9.3	9.3	9.3	9.3
92.5°	20.9	18.6	16.9	16.6	15.8	15.9	15.5
95°	56.2	44.5	38.3	34.7	32.5	31.6	31.9
97.5°	140.0	109.7	89.5	76.1	69.2	65.2	62.8
100°	220.9	182.5	148.6	125.4	113.4	105.3	100.2
102.5°	303.0	275.0	239.1	213.8	193.3	183.2	176.3
105°	371.7	375.3	366.1	348.7	331.4	319.3	315.4
107.5°	366.7	395.8	409.3	411.5	410.6	408.1	403.0
110°	351.0	386.8	409.8	421.8	427.1	429.7	429.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	332.4	370.7	397.0	413.8	422.6	427.4	428.9
115°	307.0	343.7	372.6	392.4	405.3	412.6	415.1
117.5°	286.5	319.7	346.7	367.0	380.6	388.2	390.4
120°	275.7	305.4	330.8	350.5	363.6	371.7	374.5
122.5°	266.7	294.9	317.8	335.4	348.4	355.6	357.9
125°	255.0	279.6	300.6	316.9	327.5	334.5	336.8
127.5°	243.6	266.8	286.1	300.3	310.3	316.3	318.1
130°	236.0	258.1	276.6	290.3	299.8	305.4	307.6
132.5°	228.8	249.1	266.5	280.0	289.5	294.6	296.7
135°	217.5	236.0	251.6	263.6	272.9	278.0	279.1
137.5°	208.5	223.2	236.8	247.8	255.7	260.2	261.8
140°	202.6	215.6	227.8	236.8	244.1	248.3	249.9
142.5°	197.5	208.6	218.9	227.4	234.0	237.7	238.1
145°	190.9	199.6	207.7	214.4	219.2	222.0	222.8
147.5°	185.5	192.3	198.2	203.7	207.6	209.5	210.0
150°	182.0	187.8	192.8	197.0	200.4	202.1	202.4
152.5°	179.0	184.0	188.4	191.7	194.6	195.8	195.9
155°	174.4	178.6	181.6	184.7	186.7	187.8	187.3
157.5°	169.7	173.2	175.6	177.8	179.4	179.9	179.9
160°	166.5	169.6	171.6	173.6	174.9	175.2	175.2
162.5°	163.7	166.3	167.8	169.8	170.7	171.0	170.7
165°	159.2	161.2	162.3	163.4	164.6	164.6	164.3
167.5°	155.3	156.6	157.6	158.1	158.8	158.7	158.4
170°	152.8	153.9	154.5	154.8	155.6	155.3	154.8
172.5°	150.6	151.5	151.8	152.1	152.5	152.2	151.9
175°	148.1	148.4	148.6	148.6	148.9	148.6	148.1
177.5°	146.2	146.5	146.5	146.5	146.5	146.2	145.8
180°	145.5	145.5	145.5	145.5	145.5	145.5	145.5

(END OF REPORT)