

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: P331617-940

Luminaire Tested: **SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331617-940
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-16,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-C290D330U940-4F0-1E-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

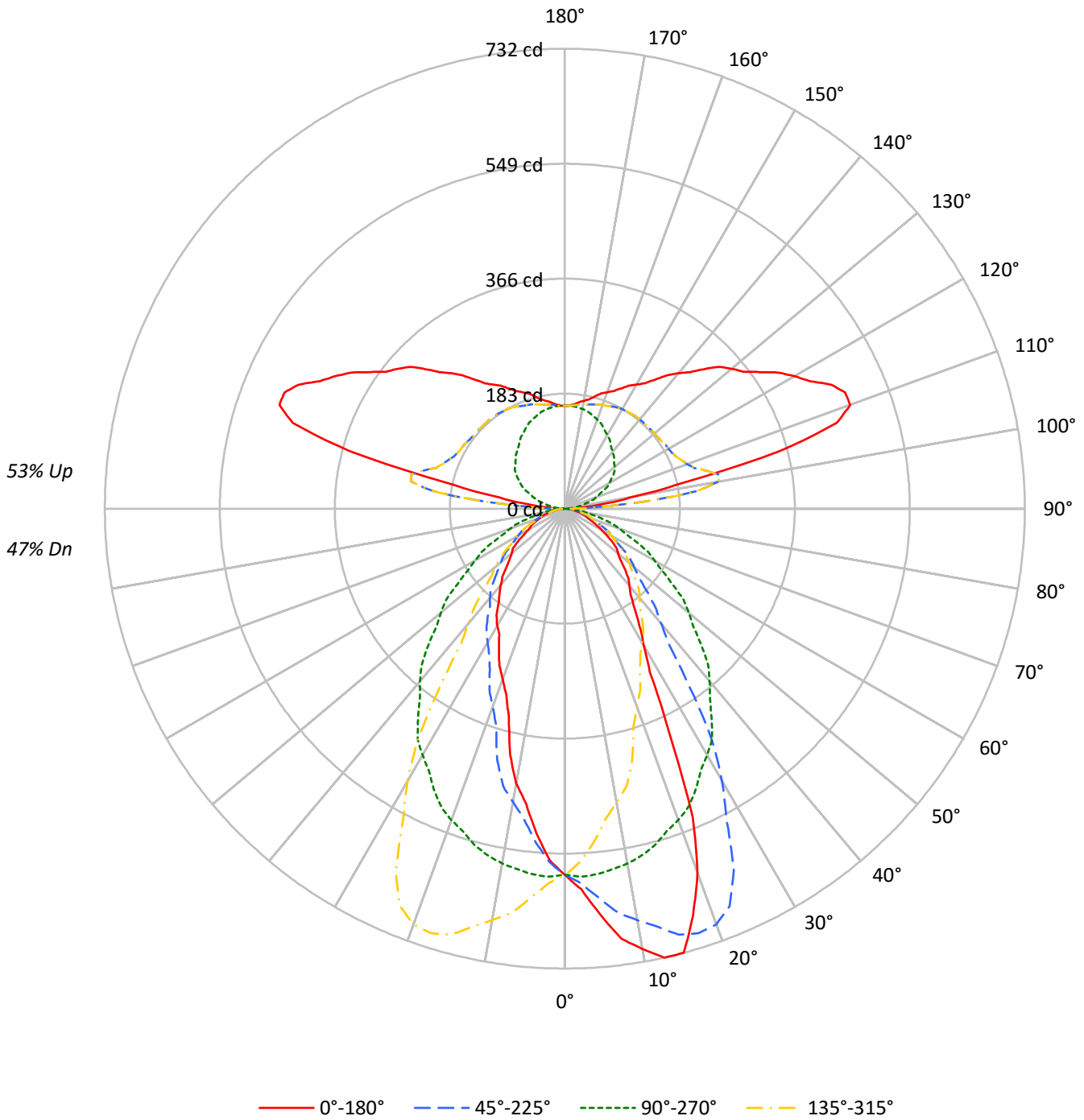
Lumens per Lamp: N/A
Luminaire Lumens: 2149.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

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°	9411	9411	9411	9411
5°	10511	9470	8399	9470
10°	11663	9404	7279	9404
15°	12236	9267	5735	9267
20°	10608	9062	4962	9062
25°	6957	8783	4431	8783
30°	4683	8444	4010	8444
35°	3792	8016	3617	8016
40°	3372	7552	3347	7552
45°	3053	7005	2987	7005
50°	2778	6465	2768	6465
55°	2609	5866	2578	5866
60°	2186	5318	2160	5318
65°	1841	4829	2090	4829
70°	1699	4310	1969	4310
75°	1591	3755	1822	3755
80°	1469	3096	1618	3096
85°	1352	2445	1426	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	2.6
10°-20°	154.0	7.2
20°-30°	198.4	9.2
30°-40°	188.6	8.8
40°-50°	161.5	7.5
50°-60°	123.0	5.7
60°-70°	77.8	3.6
70°-80°	38.8	1.8
80°-90°	11.6	0.5
90°-100°	65.5	3.0
100°-110°	222.3	10.3
110°-120°	236.2	11.0
120°-130°	194.4	9.0
130°-140°	156.1	7.3
140°-150°	118.0	5.5
150°-160°	82.9	3.9
160°-170°	48.8	2.3
170°-180°	15.9	0.7
0°-30°	407.7	19.0
0°-40°	596.2	27.7
0°-60°	880.8	41.0
0°-90°	1008.9	46.9
90°-120°	524.0	24.4
90°-150°	992.5	46.2
90°-180°	1140.0	53.0
0°-180°	2149.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	583	583	583	583	583	
5°	648	584	518	584	648	64
15°	732	554	343	554	732	197
25°	390	493	249	493	390	185
35°	192	407	184	407	192	123
45°	134	307	131	307	134	103
55°	93	208	92	208	93	81
65°	48	126	55	126	48	49
75°	26	60	29	60	26	27
85°	7	13	8	13	7	8
90°	10	0	10	0	10	6
95°	36	11	36	11	36	47
105°	355	38	355	38	355	344
115°	467	68	467	68	467	458
125°	379	94	379	94	379	343
135°	314	111	314	111	314	244
145°	251	127	251	127	251	159
155°	211	144	211	144	211	98
165°	185	157	185	157	185	53
175°	167	164	167	164	167	16
180°	164	164	164	164	164	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	606.6	607.1	607.6	606.5	606.5	605.5	603.3	601.7	597.2	596.6	596.6
5°	648.5	648.2	649.0	646.3	642.7	641.9	638.0	632.9	627.7	621.9	620.6
7.5°	690.3	689.6	688.0	687.6	684.8	678.7	672.5	665.9	657.2	648.6	644.4
10°	711.4	718.1	714.0	706.9	708.3	698.8	693.8	685.0	677.7	664.9	662.2
12.5°	732.1	734.8	733.4	729.4	727.6	721.0	714.2	706.6	693.1	681.7	671.7
15°	732.0	735.8	736.9	735.7	736.6	736.3	732.6	726.4	714.6	702.0	691.1
17.5°	678.0	680.6	687.3	691.8	697.5	709.4	715.4	717.6	716.0	708.7	701.1
20°	617.4	613.0	631.6	641.1	649.2	669.4	686.9	693.6	704.3	704.1	702.0
22.5°	531.5	532.5	550.2	561.5	585.1	605.5	625.3	650.4	671.2	684.9	692.9
25°	390.5	398.2	415.8	431.2	457.5	495.3	529.5	569.2	606.6	636.2	664.4
27.5°	293.3	293.9	307.8	322.1	337.7	368.5	411.7	459.1	512.5	556.6	607.3
30°	251.2	249.9	255.8	264.6	277.9	301.8	334.2	380.8	434.1	500.5	559.6
32.5°	221.3	221.4	225.9	232.3	243.3	259.5	281.7	319.6	369.9	435.2	504.5
35°	192.4	192.3	195.5	200.1	204.7	215.1	230.3	250.1	284.8	345.7	416.6
37.5°	171.7	172.5	174.2	177.1	182.2	188.0	197.1	210.4	235.1	271.2	330.7
40°	160.0	160.4	162.6	165.1	168.1	172.5	180.0	190.8	208.8	237.6	281.2
42.5°	149.4	149.7	151.3	153.6	156.0	160.4	166.7	175.9	190.6	212.9	248.9
45°	133.7	133.7	135.1	136.1	138.8	142.8	147.8	155.6	165.7	182.3	206.2
47.5°	119.0	119.0	120.0	121.7	123.4	126.5	131.5	137.9	145.2	158.0	178.4
50°	110.6	110.8	111.4	112.8	113.9	116.6	120.6	126.0	133.7	143.7	160.6
52.5°	103.8	103.7	104.4	105.0	105.8	107.7	110.7	115.5	122.3	131.0	145.1
55°	92.7	91.9	93.2	94.2	94.8	95.6	97.2	100.2	106.1	113.4	123.9
57.5°	79.0	78.6	79.5	80.4	82.4	84.5	86.0	87.8	90.9	96.1	106.6
60°	67.7	67.7	69.5	70.1	72.3	75.2	78.0	79.6	82.7	86.1	93.8
62.5°	57.6	57.8	58.6	59.2	60.5	63.9	67.9	71.5	74.4	77.7	82.8
65°	48.2	48.6	48.6	49.0	49.8	50.6	52.3	55.1	60.2	64.8	68.7
67.5°	40.9	41.0	41.2	41.6	41.7	42.6	43.3	44.6	45.7	50.1	54.9
70°	36.0	36.6	36.5	36.8	37.1	37.5	38.3	38.9	40.8	41.7	44.6
72.5°	31.5	31.9	31.9	32.2	32.7	32.8	33.4	34.1	35.2	36.0	37.6
75°	25.5	25.3	25.5	25.9	26.1	26.3	26.3	27.1	27.7	28.5	29.6
77.5°	19.7	19.9	19.9	19.9	20.0	20.3	20.2	20.6	21.2	21.7	22.1
80°	15.8	16.0	15.8	16.0	16.2	16.4	16.2	16.4	17.0	17.4	17.4
82.5°	12.2	12.3	12.4	12.4	12.5	12.5	12.8	12.8	13.3	13.2	13.4
85°	7.3	7.1	7.1	7.1	7.3	7.5	7.3	7.3	7.5	7.5	7.5
87.5°	4.6	4.8	4.8	4.8	4.8	4.8	4.6	4.9	4.8	5.1	4.8
90°	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1	10.4	10.7	10.4
92.5°	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5	34.6	40.9	40.4
95°	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6	108.1	123.5	109.3
97.5°	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6	221.1	210.8	158.8
100°	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7	294.3	248.9	171.4
102.5°	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9	321.5	250.1	166.6
105°	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8	317.3	233.4	157.2
107.5°	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1	289.6	215.5	152.6
110°	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7	272.2	207.0	151.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0	260.1	201.4	151.8
115°	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1	245.1	195.4	153.1
117.5°	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8	235.7	192.3	155.4
120°	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3	230.6	190.6	156.9
122.5°	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5	226.3	189.6	158.6
125°	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6	220.3	187.8	161.3
127.5°	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8	214.5	186.7	164.0
130°	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5	210.8	186.2	166.0
132.5°	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5	207.8	185.9	168.1
135°	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0	203.5	185.6	170.5
137.5°	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3	200.5	185.5	172.6
140°	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9	198.8	185.3	173.6
142.5°	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5	197.1	185.3	174.3
145°	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5	194.7	184.6	175.1
147.5°	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6	192.3	183.5	175.4
150°	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9	190.3	182.7	175.1
152.5°	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1	188.5	181.5	174.7
155°	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3	185.3	179.2	173.9
157.5°	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8	182.2	177.0	172.5
160°	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0	179.9	175.5	171.7
162.5°	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2	177.9	174.2	170.9
165°	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1	174.5	171.7	169.5
167.5°	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1	171.3	169.5	168.1
170°	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1	169.5	168.3	167.3
172.5°	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8	167.7	166.7	166.3
175°	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4	165.4	165.1	164.8
177.5°	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6	164.1	163.8	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	596.9	595.6	594.4	591.6	590.0	586.8	586.4	586.2	582.0	577.9	576.8
5°	617.4	614.1	609.3	603.6	597.7	591.7	587.6	584.3	576.2	568.6	564.1
7.5°	638.0	631.1	622.7	612.0	603.0	593.0	585.5	578.8	567.3	556.2	548.8
10°	653.4	642.1	631.0	616.2	604.6	593.3	582.7	573.6	560.7	546.1	535.7
12.5°	663.0	650.5	635.2	620.7	605.7	591.3	577.2	565.5	550.3	535.2	523.0
15°	675.9	662.5	643.9	623.2	604.0	585.1	569.0	554.4	534.6	516.5	501.5
17.5°	686.5	668.1	648.1	624.2	601.9	578.0	557.1	538.5	516.4	494.6	477.0
20°	689.9	671.6	648.5	624.6	598.3	570.2	547.7	527.4	503.7	480.0	459.8
22.5°	687.8	673.6	647.9	619.3	592.4	562.9	537.5	514.0	487.7	463.5	440.1
25°	673.5	668.6	644.4	613.1	582.4	548.1	518.7	493.0	463.1	437.1	411.6
27.5°	640.2	650.7	635.6	602.4	568.1	531.5	498.4	469.1	438.0	408.8	383.4
30°	608.1	632.1	625.7	594.9	556.6	520.6	483.5	452.9	419.7	389.7	364.6
32.5°	564.2	604.0	610.3	584.5	544.9	505.3	466.5	436.0	401.4	369.8	345.3
35°	494.2	553.8	581.1	564.7	525.0	482.2	442.2	406.7	371.8	340.7	316.4
37.5°	410.8	492.0	537.5	538.7	502.2	457.8	414.1	378.9	343.2	312.6	286.3
40°	356.7	444.6	504.0	517.1	486.3	438.4	394.1	358.3	323.5	293.5	263.3
42.5°	308.1	395.7	468.6	491.5	467.1	419.4	375.1	337.6	303.7	275.4	244.5
45°	249.1	325.7	406.1	447.0	433.5	389.3	342.5	306.8	275.1	250.6	221.0
47.5°	210.2	264.1	342.0	397.3	397.1	356.8	310.7	276.6	247.1	224.1	200.2
50°	188.0	235.0	300.8	363.6	368.8	335.0	291.2	257.4	229.9	205.8	186.5
52.5°	168.0	206.8	265.9	326.2	341.2	311.8	269.4	238.2	211.4	189.2	172.8
55°	142.0	172.0	217.0	273.2	296.0	275.3	237.6	208.4	186.7	168.1	153.9
57.5°	120.1	142.6	178.7	224.0	250.4	237.5	206.3	182.6	164.1	147.2	136.1
60°	106.4	124.8	155.3	193.2	222.4	213.3	186.7	164.7	148.9	134.3	123.8
62.5°	93.4	109.2	135.5	166.2	192.9	189.1	167.5	148.9	135.1	121.8	112.9
65°	75.2	86.7	107.2	131.3	152.8	154.5	138.9	126.4	114.0	103.5	95.6
67.5°	59.8	67.4	81.8	102.1	118.2	123.9	114.4	104.8	95.0	86.9	80.0
70°	50.5	56.5	67.1	83.5	98.3	104.3	98.8	91.3	82.8	76.2	70.3
72.5°	40.8	46.8	54.6	66.6	79.3	85.9	83.9	78.6	71.7	66.1	60.5
75°	30.8	32.6	37.9	46.0	55.9	61.6	63.0	60.2	54.7	50.5	47.2
77.5°	22.7	23.9	26.4	30.6	37.1	42.2	44.2	43.9	40.1	37.7	34.6
80°	18.2	18.8	20.1	21.8	26.8	31.8	33.3	33.3	30.6	29.6	26.6
82.5°	13.8	14.3	15.1	16.1	18.3	22.7	24.3	24.6	23.0	21.7	19.3
85°	7.9	7.7	8.1	8.7	9.1	10.3	12.8	13.2	12.8	11.1	10.5
87.5°	4.5	4.2	3.8	3.5	3.6	3.6	4.1	4.7	4.3	4.1	3.8
90°	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4	1.2	2.5	3.1
92.5°	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8	5.5	7.8	9.2
95°	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1	12.3	15.4	18.3
97.5°	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9	19.6	23.0	27.3
100°	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3	25.2	28.0	33.1
102.5°	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1	30.8	33.6	38.6
105°	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4	39.7	41.9	46.6
107.5°	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5	48.5	50.6	55.0
110°	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6	54.8	56.7	60.8



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1	60.4	62.5	66.3
115°	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8	69.3	71.2	75.0
117.5°	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7	77.9	79.8	83.2
120°	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2	83.5	85.4	88.2
122.5°	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6	88.5	90.4	93.5
125°	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5	95.5	97.4	101.1
127.5°	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0	101.3	104.0	108.2
130°	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3	104.6	107.7	112.2
132.5°	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4	107.9	111.3	115.9
135°	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9	112.2	115.9	120.6
137.5°	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2	116.7	120.5	125.6
140°	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5	119.8	123.5	128.6
142.5°	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7	122.8	126.3	131.3
145°	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6	128.0	131.1	135.8
147.5°	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0	132.9	135.9	140.3
150°	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5	136.4	138.9	143.0
152.5°	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0	139.5	142.0	145.5
155°	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0	144.3	146.2	149.6
157.5°	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1	148.5	150.0	153.0
160°	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9	151.2	152.5	155.0
162.5°	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7	153.5	154.8	156.8
165°	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9	156.6	157.2	159.1
167.5°	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5	159.2	159.7	161.0
170°	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3	160.7	161.0	161.9
172.5°	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3	161.9	161.8	162.7
175°	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5	163.2	162.9	163.5
177.5°	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1	163.5	163.4	163.8
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	574.7	573.5	571.4	568.2	566.2	562.8	560.6	561.9	562.2	561.9	561.6
5°	559.3	555.0	549.1	543.4	538.1	532.5	529.2	527.9	525.0	523.4	522.5
7.5°	540.6	533.2	525.0	515.1	506.7	497.8	493.4	491.2	485.4	482.2	479.5
10°	526.6	515.1	506.8	493.8	485.9	474.4	466.5	466.7	458.8	454.3	451.1
12.5°	511.2	498.6	484.7	473.1	462.1	452.8	443.3	439.4	431.1	426.8	418.0
15°	485.7	470.9	456.4	440.6	429.4	415.0	401.3	384.4	370.9	359.1	355.9
17.5°	457.9	439.5	424.9	406.4	387.3	363.1	347.1	337.3	329.2	323.0	318.3
20°	438.7	420.1	404.5	376.6	350.8	334.4	322.7	315.1	306.7	300.0	296.3
22.5°	418.7	399.2	377.9	346.7	326.6	313.5	303.1	294.4	288.6	283.5	280.1
25°	390.1	368.8	333.8	312.4	296.1	282.3	275.1	269.8	263.8	256.6	253.4
27.5°	360.0	326.2	301.0	285.0	269.6	260.6	254.0	246.2	240.8	237.6	234.2
30°	337.4	303.6	284.0	266.5	255.7	245.7	238.0	233.5	228.3	222.8	220.6
32.5°	312.4	285.3	266.4	252.0	240.9	232.4	226.3	219.1	215.3	212.0	207.3
35°	281.2	260.6	243.4	231.8	221.1	214.3	207.2	203.0	196.1	193.2	191.5
37.5°	254.8	237.0	224.2	211.8	203.4	195.8	191.5	184.7	181.7	177.7	173.9
40°	239.8	222.4	210.1	199.9	190.6	184.9	179.5	174.0	169.5	167.7	163.1
42.5°	224.6	210.4	198.0	187.0	180.7	174.7	167.8	163.8	159.2	156.2	153.4
45°	203.6	191.0	180.5	171.4	164.4	158.2	153.7	147.0	144.5	138.6	136.1
47.5°	185.1	173.4	163.4	154.7	148.0	143.9	137.4	132.2	128.0	124.3	121.2
50°	172.0	162.2	152.5	144.8	138.8	132.9	126.2	123.6	117.1	115.2	113.4
52.5°	160.0	150.7	141.9	134.3	128.2	122.5	116.6	113.2	108.8	107.0	105.7
55°	143.2	134.3	125.8	119.1	113.1	107.2	103.5	99.2	97.2	95.8	94.2
57.5°	126.4	118.3	111.8	105.0	98.9	94.3	90.1	87.5	85.4	83.6	81.6
60°	115.7	108.0	102.1	95.8	89.5	85.7	82.5	79.4	77.0	74.1	73.3
62.5°	104.3	97.6	92.2	86.1	80.6	77.1	74.0	71.2	68.2	64.1	63.0
65°	88.7	83.5	77.8	72.7	67.9	64.4	59.9	56.7	55.5	55.1	54.9
67.5°	74.6	69.6	64.7	59.6	55.2	52.0	49.7	49.2	48.3	48.2	47.5
70°	65.2	60.5	55.7	50.8	46.5	46.0	45.2	44.3	43.3	43.0	42.5
72.5°	56.8	52.0	47.1	43.2	41.4	40.7	39.9	39.0	38.3	37.9	37.7
75°	43.5	39.1	35.8	34.4	33.4	32.8	31.6	31.0	30.6	30.0	29.8
77.5°	31.4	28.8	27.4	26.5	25.4	24.8	24.1	23.5	23.0	22.9	22.6
80°	23.9	22.6	21.7	20.4	20.1	19.3	19.1	18.5	18.6	18.0	18.0
82.5°	18.5	17.0	16.1	15.6	15.2	14.5	14.4	14.1	14.1	13.6	13.6
85°	9.5	9.1	8.7	8.3	8.3	7.7	7.9	7.7	7.7	7.3	7.1
87.5°	3.8	3.8	3.8	4.3	4.6	4.5	4.5	4.3	4.2	4.3	4.2
90°	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1	9.5	10.1	10.4
92.5°	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5	23.5	21.0	19.0
95°	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6	63.3	50.1	43.2
97.5°	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6	157.6	123.5	100.8
100°	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7	248.6	205.5	167.3
102.5°	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9	341.1	309.5	269.1
105°	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8	418.4	422.5	412.1
107.5°	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1	412.8	445.5	460.7
110°	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7	395.1	435.4	461.3



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0	374.2	417.2	446.9
115°	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1	345.6	386.9	419.4
117.5°	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8	322.4	359.9	390.3
120°	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3	310.3	343.8	372.4
122.5°	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5	300.2	331.9	357.8
125°	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6	287.0	314.8	338.4
127.5°	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8	274.2	300.3	322.1
130°	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5	265.6	290.5	311.3
132.5°	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5	257.5	280.4	300.0
135°	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0	244.8	265.6	283.2
137.5°	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3	234.7	251.2	266.5
140°	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9	228.1	242.6	256.5
142.5°	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5	222.3	234.8	246.4
145°	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5	214.9	224.6	233.8
147.5°	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6	208.8	216.4	223.1
150°	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9	204.8	211.4	217.0
152.5°	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1	201.5	207.1	212.0
155°	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3	196.3	201.0	204.5
157.5°	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8	191.0	194.9	197.7
160°	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0	187.4	190.9	193.1
162.5°	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2	184.2	187.2	188.9
165°	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1	179.2	181.5	182.7
167.5°	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1	174.8	176.3	177.5
170°	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1	172.0	173.3	173.9
172.5°	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8	169.5	170.5	170.9
175°	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4	166.7	167.0	167.3
177.5°	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6	164.6	164.9	164.9
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	559.8	560.1	559.6	559.9	559.6	560.1	559.8	561.6	561.9	562.2	561.9
5°	521.6	519.2	518.7	518.2	518.7	519.2	521.6	522.5	523.4	525.0	527.9
7.5°	476.0	475.6	474.6	473.1	474.6	475.6	476.0	479.5	482.2	485.4	491.2
10°	446.7	445.6	445.4	444.0	445.4	445.6	446.7	451.1	454.3	458.8	466.7
12.5°	412.2	405.7	405.1	401.5	405.1	405.7	412.2	418.0	426.8	431.1	439.4
15°	351.1	349.8	345.7	343.1	345.7	349.8	351.1	355.9	359.1	370.9	384.4
17.5°	316.0	312.0	310.8	310.2	310.8	312.0	316.0	318.3	323.0	329.2	337.3
20°	293.5	289.9	289.3	288.8	289.3	289.9	293.5	296.3	300.0	306.7	315.1
22.5°	277.9	274.1	272.6	271.3	272.6	274.1	277.9	280.1	283.5	288.6	294.4
25°	251.4	249.9	249.1	248.7	249.1	249.9	251.4	253.4	256.6	263.8	269.8
27.5°	230.6	227.5	226.9	225.8	226.9	227.5	230.6	234.2	237.6	240.8	246.2
30°	218.7	217.8	216.3	215.1	216.3	217.8	218.7	220.6	222.8	228.3	233.5
32.5°	204.8	203.9	202.7	202.2	202.7	203.9	204.8	207.3	212.0	215.3	219.1
35°	189.4	186.5	185.3	183.5	185.3	186.5	189.4	191.5	193.2	196.1	203.0
37.5°	173.1	171.6	169.9	170.5	169.9	171.6	173.1	173.9	177.7	181.7	184.7
40°	160.4	159.4	159.0	158.8	159.0	159.4	160.4	163.1	167.7	169.5	174.0
42.5°	150.3	147.6	146.5	146.5	146.5	147.6	150.3	153.4	156.2	159.2	163.8
45°	135.1	132.5	130.6	130.8	130.6	132.5	135.1	136.1	138.6	144.5	147.0
47.5°	119.5	119.4	118.2	118.6	118.2	119.4	119.5	121.2	124.3	128.0	132.2
50°	112.0	110.8	109.9	110.2	109.9	110.8	112.0	113.4	115.2	117.1	123.6
52.5°	104.9	103.8	103.2	104.1	103.2	103.8	104.9	105.7	107.0	108.8	113.2
55°	93.2	91.9	91.8	91.6	91.8	91.9	93.2	94.2	95.8	97.2	99.2
57.5°	80.1	79.3	78.0	77.6	78.0	79.3	80.1	81.6	83.6	85.4	87.5
60°	70.7	69.1	67.1	66.9	67.1	69.1	70.7	73.3	74.1	77.0	79.4
62.5°	62.1	61.8	61.3	61.3	61.3	61.8	62.1	63.0	64.1	68.2	71.2
65°	54.5	54.3	54.5	54.7	54.5	54.3	54.5	54.9	55.1	55.5	56.7
67.5°	47.4	47.1	46.7	46.9	46.7	47.1	47.4	47.5	48.2	48.3	49.2
70°	42.1	41.9	41.7	41.7	41.7	41.9	42.1	42.5	43.0	43.3	44.3
72.5°	36.9	36.9	36.7	36.6	36.7	36.9	36.9	37.7	37.9	38.3	39.0
75°	29.6	29.2	29.2	29.2	29.2	29.2	29.6	29.8	30.0	30.6	31.0
77.5°	22.6	22.3	22.1	21.9	22.1	22.3	22.6	22.6	22.9	23.0	23.5
80°	17.8	17.7	17.4	17.4	17.4	17.7	17.8	18.0	18.0	18.6	18.5
82.5°	13.6	13.4	13.4	13.2	13.4	13.4	13.6	13.6	13.6	14.1	14.1
85°	7.3	7.5	7.3	7.7	7.3	7.5	7.3	7.1	7.3	7.7	7.7
87.5°	4.2	4.0	4.2	4.0	4.2	4.0	4.2	4.2	4.3	4.2	4.3
90°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.1	9.5	10.1
92.5°	18.7	17.7	17.9	17.5	17.9	17.7	18.7	19.0	21.0	23.5	27.5
95°	39.1	36.6	35.6	35.9	35.6	36.6	39.1	43.2	50.1	63.3	82.6
97.5°	85.7	77.9	73.4	70.7	73.4	77.9	85.7	100.8	123.5	157.6	192.6
100°	141.2	127.6	118.5	112.8	118.5	127.6	141.2	167.3	205.5	248.6	287.7
102.5°	240.7	217.6	206.2	198.5	206.2	217.6	240.7	269.1	309.5	341.1	349.9
105°	392.5	373.0	359.4	355.1	359.4	373.0	392.5	412.1	422.5	418.4	382.8
107.5°	463.2	462.2	459.4	453.6	459.4	462.2	463.2	460.7	445.5	412.8	359.1
110°	474.8	480.8	483.7	483.3	483.7	480.8	474.8	461.3	435.4	395.1	338.7



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	465.7	475.7	481.1	482.8	481.1	475.7	465.7	446.9	417.2	374.2	320.0
115°	441.8	456.2	464.4	467.3	464.4	456.2	441.8	419.4	386.9	345.6	297.1
117.5°	413.1	428.5	437.0	439.4	437.0	428.5	413.1	390.3	359.9	322.4	279.8
120°	394.5	409.3	418.4	421.6	418.4	409.3	394.5	372.4	343.8	310.3	271.3
122.5°	377.6	392.2	400.3	402.9	400.3	392.2	377.6	357.8	331.9	300.2	264.5
125°	356.7	368.6	376.5	379.1	376.5	368.6	356.7	338.4	314.8	287.0	254.6
127.5°	338.0	349.3	356.1	358.1	356.1	349.3	338.0	322.1	300.3	274.2	244.8
130°	326.7	337.4	343.8	346.3	343.8	337.4	326.7	311.3	290.5	265.6	238.5
132.5°	315.1	325.8	331.6	333.9	331.6	325.8	315.1	300.0	280.4	257.5	232.5
135°	296.8	307.2	312.9	314.1	312.9	307.2	296.8	283.2	265.6	244.8	224.0
137.5°	278.9	287.8	292.8	294.7	292.8	287.8	278.9	266.5	251.2	234.7	217.3
140°	266.5	274.7	279.5	281.3	279.5	274.7	266.5	256.5	242.6	228.1	212.9
142.5°	255.9	263.4	267.6	268.0	267.6	263.4	255.9	246.4	234.8	222.3	209.5
145°	241.3	246.7	249.9	250.7	249.9	246.7	241.3	233.8	224.6	214.9	204.5
147.5°	229.3	233.6	235.8	236.4	235.8	233.6	229.3	223.1	216.4	208.8	200.6
150°	221.8	225.6	227.5	227.8	227.5	225.6	221.8	217.0	211.4	204.8	197.9
152.5°	215.8	219.0	220.4	220.5	220.4	219.0	215.8	212.0	207.1	201.5	195.1
155°	207.9	210.2	211.4	210.8	211.4	210.2	207.9	204.5	201.0	196.3	191.3
157.5°	200.1	202.0	202.5	202.5	202.5	202.0	200.1	197.7	194.9	191.0	186.8
160°	195.4	196.9	197.2	197.2	197.2	196.9	195.4	193.1	190.9	187.4	184.0
162.5°	191.1	192.2	192.4	192.2	192.4	192.2	191.1	188.9	187.2	184.2	181.2
165°	184.0	185.3	185.3	184.9	185.3	185.3	184.0	182.7	181.5	179.2	177.1
167.5°	178.0	178.7	178.6	178.3	178.6	178.7	178.0	177.5	176.3	174.8	173.1
170°	174.2	175.1	174.9	174.2	174.9	175.1	174.2	173.9	173.3	172.0	171.1
172.5°	171.2	171.7	171.3	170.9	171.3	171.7	171.2	170.9	170.5	169.5	168.8
175°	167.3	167.6	167.3	166.7	167.3	167.6	167.3	167.3	167.0	166.7	166.4
177.5°	164.9	164.9	164.6	164.1	164.6	164.9	164.9	164.9	164.9	164.6	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331617-940
 CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	560.6	562.8	566.2	568.2	571.4	573.5	574.7	576.8	577.9	582.0	586.2
5°	529.2	532.5	538.1	543.4	549.1	555.0	559.3	564.1	568.6	576.2	584.3
7.5°	493.4	497.8	506.7	515.1	525.0	533.2	540.6	548.8	556.2	567.3	578.8
10°	466.5	474.4	485.9	493.8	506.8	515.1	526.6	535.7	546.1	560.7	573.6
12.5°	443.3	452.8	462.1	473.1	484.7	498.6	511.2	523.0	535.2	550.3	565.5
15°	401.3	415.0	429.4	440.6	456.4	470.9	485.7	501.5	516.5	534.6	554.4
17.5°	347.1	363.1	387.3	406.4	424.9	439.5	457.9	477.0	494.6	516.4	538.5
20°	322.7	334.4	350.8	376.6	404.5	420.1	438.7	459.8	480.0	503.7	527.4
22.5°	303.1	313.5	326.6	346.7	377.9	399.2	418.7	440.1	463.5	487.7	514.0
25°	275.1	282.3	296.1	312.4	333.8	368.8	390.1	411.6	437.1	463.1	493.0
27.5°	254.0	260.6	269.6	285.0	301.0	326.2	360.0	383.4	408.8	438.0	469.1
30°	238.0	245.7	255.7	266.5	284.0	303.6	337.4	364.6	389.7	419.7	452.9
32.5°	226.3	232.4	240.9	252.0	266.4	285.3	312.4	345.3	369.8	401.4	436.0
35°	207.2	214.3	221.1	231.8	243.4	260.6	281.2	316.4	340.7	371.8	406.7
37.5°	191.5	195.8	203.4	211.8	224.2	237.0	254.8	286.3	312.6	343.2	378.9
40°	179.5	184.9	190.6	199.9	210.1	222.4	239.8	263.3	293.5	323.5	358.3
42.5°	167.8	174.7	180.7	187.0	198.0	210.4	224.6	244.5	275.4	303.7	337.6
45°	153.7	158.2	164.4	171.4	180.5	191.0	203.6	221.0	250.6	275.1	306.8
47.5°	137.4	143.9	148.0	154.7	163.4	173.4	185.1	200.2	224.1	247.1	276.6
50°	126.2	132.9	138.8	144.8	152.5	162.2	172.0	186.5	205.8	229.9	257.4
52.5°	116.6	122.5	128.2	134.3	141.9	150.7	160.0	172.8	189.2	211.4	238.2
55°	103.5	107.2	113.1	119.1	125.8	134.3	143.2	153.9	168.1	186.7	208.4
57.5°	90.1	94.3	98.9	105.0	111.8	118.3	126.4	136.1	147.2	164.1	182.6
60°	82.5	85.7	89.5	95.8	102.1	108.0	115.7	123.8	134.3	148.9	164.7
62.5°	74.0	77.1	80.6	86.1	92.2	97.6	104.3	112.9	121.8	135.1	148.9
65°	59.9	64.4	67.9	72.7	77.8	83.5	88.7	95.6	103.5	114.0	126.4
67.5°	49.7	52.0	55.2	59.6	64.7	69.6	74.6	80.0	86.9	95.0	104.8
70°	45.2	46.0	46.5	50.8	55.7	60.5	65.2	70.3	76.2	82.8	91.3
72.5°	39.9	40.7	41.4	43.2	47.1	52.0	56.8	60.5	66.1	71.7	78.6
75°	31.6	32.8	33.4	34.4	35.8	39.1	43.5	47.2	50.5	54.7	60.2
77.5°	24.1	24.8	25.4	26.5	27.4	28.8	31.4	34.6	37.7	40.1	43.9
80°	19.1	19.3	20.1	20.4	21.7	22.6	23.9	26.6	29.6	30.6	33.3
82.5°	14.4	14.5	15.2	15.6	16.1	17.0	18.5	19.3	21.7	23.0	24.6
85°	7.9	7.7	8.3	8.3	8.7	9.1	9.5	10.5	11.1	12.8	13.2
87.5°	4.5	4.5	4.6	4.3	3.8	3.8	3.8	3.8	4.1	4.3	4.7
90°	10.4	10.7	10.4	8.5	6.3	4.7	3.7	3.1	2.5	1.2	0.4
92.5°	34.6	40.9	40.4	31.5	21.4	14.3	11.3	9.2	7.8	5.5	3.8
95°	108.1	123.5	109.3	72.8	45.4	30.9	23.3	18.3	15.4	12.3	11.1
97.5°	221.1	210.8	158.8	98.1	59.8	41.6	33.1	27.3	23.0	19.6	17.9
100°	294.3	248.9	171.4	103.3	64.9	48.2	39.4	33.1	28.0	25.2	24.3
102.5°	321.5	250.1	166.6	103.6	69.5	54.0	45.2	38.6	33.6	30.8	30.1
105°	317.3	233.4	157.2	105.2	77.2	62.4	53.6	46.6	41.9	39.7	38.4
107.5°	289.6	215.5	152.6	109.6	85.2	70.8	61.9	55.0	50.6	48.5	47.5
110°	272.2	207.0	151.6	113.1	90.4	76.6	67.4	60.8	56.7	54.8	53.6



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.1	201.4	151.8	116.9	95.5	82.1	72.7	66.3	62.5	60.4	59.1
115°	245.1	195.4	153.1	122.5	103.3	89.8	81.3	75.0	71.2	69.3	67.8
117.5°	235.7	192.3	155.4	128.6	110.6	98.1	89.3	83.2	79.8	77.9	76.7
120°	230.6	190.6	156.9	132.7	115.7	103.3	94.5	88.2	85.4	83.5	82.2
122.5°	226.3	189.6	158.6	136.2	120.4	108.9	99.8	93.5	90.4	88.5	87.6
125°	220.3	187.8	161.3	141.8	127.6	116.3	107.5	101.1	97.4	95.5	94.5
127.5°	214.5	186.7	164.0	147.0	134.3	123.2	114.1	108.2	104.0	101.3	100.0
130°	210.8	186.2	166.0	150.3	138.3	127.2	118.5	112.2	107.7	104.6	103.3
132.5°	207.8	185.9	168.1	153.6	141.9	131.3	122.5	115.9	111.3	107.9	106.4
135°	203.5	185.6	170.5	157.8	146.9	136.7	128.0	120.6	115.9	112.2	110.9
137.5°	200.5	185.5	172.6	161.1	150.9	140.9	132.7	125.6	120.5	116.7	115.2
140°	198.8	185.3	173.6	162.9	153.1	143.7	135.5	128.6	123.5	119.8	118.5
142.5°	197.1	185.3	174.3	164.4	154.9	145.7	138.0	131.3	126.3	122.8	121.7
145°	194.7	184.6	175.1	166.4	157.6	149.0	142.1	135.8	131.1	128.0	126.6
147.5°	192.3	183.5	175.4	167.5	159.7	151.7	145.5	140.3	135.9	132.9	132.0
150°	190.3	182.7	175.1	167.9	160.7	153.5	147.8	143.0	138.9	136.4	135.5
152.5°	188.5	181.5	174.7	168.2	161.7	155.2	150.1	145.5	142.0	139.5	139.0
155°	185.3	179.2	173.9	168.5	163.2	157.8	153.1	149.6	146.2	144.3	144.0
157.5°	182.2	177.0	172.5	168.5	164.3	159.7	155.8	153.0	150.0	148.5	148.1
160°	179.9	175.5	171.7	168.5	164.8	161.0	157.6	155.0	152.5	151.2	150.9
162.5°	177.9	174.2	170.9	168.3	165.1	161.8	159.1	156.8	154.8	153.5	153.7
165°	174.5	171.7	169.5	167.6	165.4	162.6	160.7	159.1	157.2	156.6	156.9
167.5°	171.3	169.5	168.1	167.2	165.3	163.3	162.1	161.0	159.7	159.2	159.5
170°	169.5	168.3	167.3	166.7	165.1	163.5	162.6	161.9	161.0	160.7	161.3
172.5°	167.7	166.7	166.3	165.9	164.9	163.8	163.1	162.7	161.8	161.9	162.3
175°	165.4	165.1	164.8	165.1	164.4	163.8	163.5	163.5	162.9	163.2	163.5
177.5°	164.1	163.8	164.1	164.6	164.1	163.8	163.8	163.8	163.4	163.5	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	586.4	586.8	590.0	591.6	594.4	595.6	596.9	596.6	596.6	597.2	601.7
5°	587.6	591.7	597.7	603.6	609.3	614.1	617.4	620.6	621.9	627.7	632.9
7.5°	585.5	593.0	603.0	612.0	622.7	631.1	638.0	644.4	648.6	657.2	665.9
10°	582.7	593.3	604.6	616.2	631.0	642.1	653.4	662.2	664.9	677.7	685.0
12.5°	577.2	591.3	605.7	620.7	635.2	650.5	663.0	671.7	681.7	693.1	706.6
15°	569.0	585.1	604.0	623.2	643.9	662.5	675.9	691.1	702.0	714.6	726.4
17.5°	557.1	578.0	601.9	624.2	648.1	668.1	686.5	701.1	708.7	716.0	717.6
20°	547.7	570.2	598.3	624.6	648.5	671.6	689.9	702.0	704.1	704.3	693.6
22.5°	537.5	562.9	592.4	619.3	647.9	673.6	687.8	692.9	684.9	671.2	650.4
25°	518.7	548.1	582.4	613.1	644.4	668.6	673.5	664.4	636.2	606.6	569.2
27.5°	498.4	531.5	568.1	602.4	635.6	650.7	640.2	607.3	556.6	512.5	459.1
30°	483.5	520.6	556.6	594.9	625.7	632.1	608.1	559.6	500.5	434.1	380.8
32.5°	466.5	505.3	544.9	584.5	610.3	604.0	564.2	504.5	435.2	369.9	319.6
35°	442.2	482.2	525.0	564.7	581.1	553.8	494.2	416.6	345.7	284.8	250.1
37.5°	414.1	457.8	502.2	538.7	537.5	492.0	410.8	330.7	271.2	235.1	210.4
40°	394.1	438.4	486.3	517.1	504.0	444.6	356.7	281.2	237.6	208.8	190.8
42.5°	375.1	419.4	467.1	491.5	468.6	395.7	308.1	248.9	212.9	190.6	175.9
45°	342.5	389.3	433.5	447.0	406.1	325.7	249.1	206.2	182.3	165.7	155.6
47.5°	310.7	356.8	397.1	397.3	342.0	264.1	210.2	178.4	158.0	145.2	137.9
50°	291.2	335.0	368.8	363.6	300.8	235.0	188.0	160.6	143.7	133.7	126.0
52.5°	269.4	311.8	341.2	326.2	265.9	206.8	168.0	145.1	131.0	122.3	115.5
55°	237.6	275.3	296.0	273.2	217.0	172.0	142.0	123.9	113.4	106.1	100.2
57.5°	206.3	237.5	250.4	224.0	178.7	142.6	120.1	106.6	96.1	90.9	87.8
60°	186.7	213.3	222.4	193.2	155.3	124.8	106.4	93.8	86.1	82.7	79.6
62.5°	167.5	189.1	192.9	166.2	135.5	109.2	93.4	82.8	77.7	74.4	71.5
65°	138.9	154.5	152.8	131.3	107.2	86.7	75.2	68.7	64.8	60.2	55.1
67.5°	114.4	123.9	118.2	102.1	81.8	67.4	59.8	54.9	50.1	45.7	44.6
70°	98.8	104.3	98.3	83.5	67.1	56.5	50.5	44.6	41.7	40.8	38.9
72.5°	83.9	85.9	79.3	66.6	54.6	46.8	40.8	37.6	36.0	35.2	34.1
75°	63.0	61.6	55.9	46.0	37.9	32.6	30.8	29.6	28.5	27.7	27.1
77.5°	44.2	42.2	37.1	30.6	26.4	23.9	22.7	22.1	21.7	21.2	20.6
80°	33.3	31.8	26.8	21.8	20.1	18.8	18.2	17.4	17.4	17.0	16.4
82.5°	24.3	22.7	18.3	16.1	15.1	14.3	13.8	13.4	13.2	13.3	12.8
85°	12.8	10.3	9.1	8.7	8.1	7.7	7.9	7.5	7.5	7.5	7.3
87.5°	4.1	3.6	3.6	3.5	3.8	4.2	4.5	4.8	5.1	4.8	4.9
90°	1.2	2.5	3.1	3.7	4.7	6.3	8.5	10.4	10.7	10.4	10.1
92.5°	5.5	7.8	9.2	11.3	14.3	21.4	31.5	40.4	40.9	34.6	27.5
95°	12.3	15.4	18.3	23.3	30.9	45.4	72.8	109.3	123.5	108.1	82.6
97.5°	19.6	23.0	27.3	33.1	41.6	59.8	98.1	158.8	210.8	221.1	192.6
100°	25.2	28.0	33.1	39.4	48.2	64.9	103.3	171.4	248.9	294.3	287.7
102.5°	30.8	33.6	38.6	45.2	54.0	69.5	103.6	166.6	250.1	321.5	349.9
105°	39.7	41.9	46.6	53.6	62.4	77.2	105.2	157.2	233.4	317.3	382.8
107.5°	48.5	50.6	55.0	61.9	70.8	85.2	109.6	152.6	215.5	289.6	359.1
110°	54.8	56.7	60.8	67.4	76.6	90.4	113.1	151.6	207.0	272.2	338.7



TEST NUMBER: P331617-940

CATALOG NUMBER: SA2XXRDIP-C290D330U940-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	60.4	62.5	66.3	72.7	82.1	95.5	116.9	151.8	201.4	260.1	320.0
115°	69.3	71.2	75.0	81.3	89.8	103.3	122.5	153.1	195.4	245.1	297.1
117.5°	77.9	79.8	83.2	89.3	98.1	110.6	128.6	155.4	192.3	235.7	279.8
120°	83.5	85.4	88.2	94.5	103.3	115.7	132.7	156.9	190.6	230.6	271.3
122.5°	88.5	90.4	93.5	99.8	108.9	120.4	136.2	158.6	189.6	226.3	264.5
125°	95.5	97.4	101.1	107.5	116.3	127.6	141.8	161.3	187.8	220.3	254.6
127.5°	101.3	104.0	108.2	114.1	123.2	134.3	147.0	164.0	186.7	214.5	244.8
130°	104.6	107.7	112.2	118.5	127.2	138.3	150.3	166.0	186.2	210.8	238.5
132.5°	107.9	111.3	115.9	122.5	131.3	141.9	153.6	168.1	185.9	207.8	232.5
135°	112.2	115.9	120.6	128.0	136.7	146.9	157.8	170.5	185.6	203.5	224.0
137.5°	116.7	120.5	125.6	132.7	140.9	150.9	161.1	172.6	185.5	200.5	217.3
140°	119.8	123.5	128.6	135.5	143.7	153.1	162.9	173.6	185.3	198.8	212.9
142.5°	122.8	126.3	131.3	138.0	145.7	154.9	164.4	174.3	185.3	197.1	209.5
145°	128.0	131.1	135.8	142.1	149.0	157.6	166.4	175.1	184.6	194.7	204.5
147.5°	132.9	135.9	140.3	145.5	151.7	159.7	167.5	175.4	183.5	192.3	200.6
150°	136.4	138.9	143.0	147.8	153.5	160.7	167.9	175.1	182.7	190.3	197.9
152.5°	139.5	142.0	145.5	150.1	155.2	161.7	168.2	174.7	181.5	188.5	195.1
155°	144.3	146.2	149.6	153.1	157.8	163.2	168.5	173.9	179.2	185.3	191.3
157.5°	148.5	150.0	153.0	155.8	159.7	164.3	168.5	172.5	177.0	182.2	186.8
160°	151.2	152.5	155.0	157.6	161.0	164.8	168.5	171.7	175.5	179.9	184.0
162.5°	153.5	154.8	156.8	159.1	161.8	165.1	168.3	170.9	174.2	177.9	181.2
165°	156.6	157.2	159.1	160.7	162.6	165.4	167.6	169.5	171.7	174.5	177.1
167.5°	159.2	159.7	161.0	162.1	163.3	165.3	167.2	168.1	169.5	171.3	173.1
170°	160.7	161.0	161.9	162.6	163.5	165.1	166.7	167.3	168.3	169.5	171.1
172.5°	161.9	161.8	162.7	163.1	163.8	164.9	165.9	166.3	166.7	167.7	168.8
175°	163.2	162.9	163.5	163.5	163.8	164.4	165.1	164.8	165.1	165.4	166.4
177.5°	163.5	163.4	163.8	163.8	163.8	164.1	164.6	164.1	163.8	164.1	164.6
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8	163.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	582.9	582.9	582.9	582.9	582.9	582.9	582.9
2.5°	603.3	605.5	606.5	606.5	607.6	607.1	606.6
5°	638.0	641.9	642.7	646.3	649.0	648.2	648.5
7.5°	672.5	678.7	684.8	687.6	688.0	689.6	690.3
10°	693.8	698.8	708.3	706.9	714.0	718.1	711.4
12.5°	714.2	721.0	727.6	729.4	733.4	734.8	732.1
15°	732.6	736.3	736.6	735.7	736.9	735.8	732.0
17.5°	715.4	709.4	697.5	691.8	687.3	680.6	678.0
20°	686.9	669.4	649.2	641.1	631.6	613.0	617.4
22.5°	625.3	605.5	585.1	561.5	550.2	532.5	531.5
25°	529.5	495.3	457.5	431.2	415.8	398.2	390.5
27.5°	411.7	368.5	337.7	322.1	307.8	293.9	293.3
30°	334.2	301.8	277.9	264.6	255.8	249.9	251.2
32.5°	281.7	259.5	243.3	232.3	225.9	221.4	221.3
35°	230.3	215.1	204.7	200.1	195.5	192.3	192.4
37.5°	197.1	188.0	182.2	177.1	174.2	172.5	171.7
40°	180.0	172.5	168.1	165.1	162.6	160.4	160.0
42.5°	166.7	160.4	156.0	153.6	151.3	149.7	149.4
45°	147.8	142.8	138.8	136.1	135.1	133.7	133.7
47.5°	131.5	126.5	123.4	121.7	120.0	119.0	119.0
50°	120.6	116.6	113.9	112.8	111.4	110.8	110.6
52.5°	110.7	107.7	105.8	105.0	104.4	103.7	103.8
55°	97.2	95.6	94.8	94.2	93.2	91.9	92.7
57.5°	86.0	84.5	82.4	80.4	79.5	78.6	79.0
60°	78.0	75.2	72.3	70.1	69.5	67.7	67.7
62.5°	67.9	63.9	60.5	59.2	58.6	57.8	57.6
65°	52.3	50.6	49.8	49.0	48.6	48.6	48.2
67.5°	43.3	42.6	41.7	41.6	41.2	41.0	40.9
70°	38.3	37.5	37.1	36.8	36.5	36.6	36.0
72.5°	33.4	32.8	32.7	32.2	31.9	31.9	31.5
75°	26.3	26.3	26.1	25.9	25.5	25.3	25.5
77.5°	20.2	20.3	20.0	19.9	19.9	19.9	19.7
80°	16.2	16.4	16.2	16.0	15.8	16.0	15.8
82.5°	12.8	12.5	12.5	12.4	12.4	12.3	12.2
85°	7.3	7.5	7.3	7.1	7.1	7.1	7.3
87.5°	4.6	4.8	4.8	4.8	4.8	4.8	4.6
90°	9.5	10.1	10.4	10.4	10.4	10.4	10.4
92.5°	23.5	21.0	19.0	18.7	17.7	17.9	17.5
95°	63.3	50.1	43.2	39.1	36.6	35.6	35.9
97.5°	157.6	123.5	100.8	85.7	77.9	73.4	70.7
100°	248.6	205.5	167.3	141.2	127.6	118.5	112.8
102.5°	341.1	309.5	269.1	240.7	217.6	206.2	198.5
105°	418.4	422.5	412.1	392.5	373.0	359.4	355.1
107.5°	412.8	445.5	460.7	463.2	462.2	459.4	453.6
110°	395.1	435.4	461.3	474.8	480.8	483.7	483.3



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	374.2	417.2	446.9	465.7	475.7	481.1	482.8
115°	345.6	386.9	419.4	441.8	456.2	464.4	467.3
117.5°	322.4	359.9	390.3	413.1	428.5	437.0	439.4
120°	310.3	343.8	372.4	394.5	409.3	418.4	421.6
122.5°	300.2	331.9	357.8	377.6	392.2	400.3	402.9
125°	287.0	314.8	338.4	356.7	368.6	376.5	379.1
127.5°	274.2	300.3	322.1	338.0	349.3	356.1	358.1
130°	265.6	290.5	311.3	326.7	337.4	343.8	346.3
132.5°	257.5	280.4	300.0	315.1	325.8	331.6	333.9
135°	244.8	265.6	283.2	296.8	307.2	312.9	314.1
137.5°	234.7	251.2	266.5	278.9	287.8	292.8	294.7
140°	228.1	242.6	256.5	266.5	274.7	279.5	281.3
142.5°	222.3	234.8	246.4	255.9	263.4	267.6	268.0
145°	214.9	224.6	233.8	241.3	246.7	249.9	250.7
147.5°	208.8	216.4	223.1	229.3	233.6	235.8	236.4
150°	204.8	211.4	217.0	221.8	225.6	227.5	227.8
152.5°	201.5	207.1	212.0	215.8	219.0	220.4	220.5
155°	196.3	201.0	204.5	207.9	210.2	211.4	210.8
157.5°	191.0	194.9	197.7	200.1	202.0	202.5	202.5
160°	187.4	190.9	193.1	195.4	196.9	197.2	197.2
162.5°	184.2	187.2	188.9	191.1	192.2	192.4	192.2
165°	179.2	181.5	182.7	184.0	185.3	185.3	184.9
167.5°	174.8	176.3	177.5	178.0	178.7	178.6	178.3
170°	172.0	173.3	173.9	174.2	175.1	174.9	174.2
172.5°	169.5	170.5	170.9	171.2	171.7	171.3	170.9
175°	166.7	167.0	167.3	167.3	167.6	167.3	166.7
177.5°	164.6	164.9	164.9	164.9	164.9	164.6	164.1
180°	163.8	163.8	163.8	163.8	163.8	163.8	163.8

(END OF REPORT)