

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: P331623-940

Luminaire Tested: **SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331623-940  
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-C290D530U940-4F0-1E-UDD-A4  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

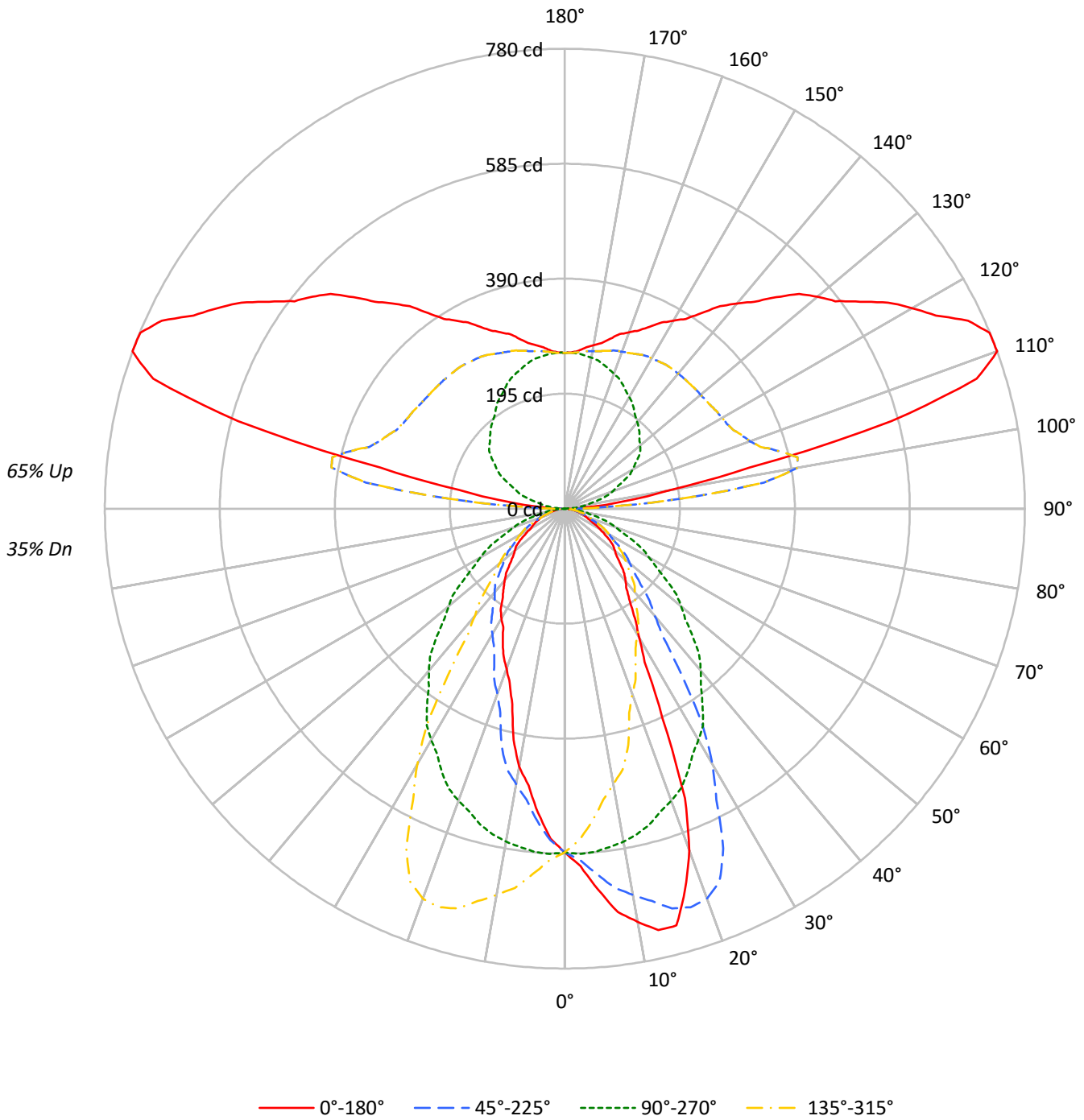
Lumens per Lamp: N/A  
Luminaire Lumens: 2850.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	87	84	86	83	80	77	67	65	63	52	51	49	39	38	37	31
2	87	80	74	70	79	73	68	64	59	56	53	46	44	42	35	33	32	27
3	80	71	64	59	72	65	59	54	53	48	45	42	39	36	31	29	28	23
4	73	63	56	50	66	58	51	46	47	43	39	37	34	32	28	26	25	21
5	67	56	49	43	61	52	45	40	42	38	34	34	30	28	26	24	22	18
6	62	51	43	38	56	47	40	35	38	34	30	31	27	25	24	21	20	17
7	58	46	39	33	52	42	36	31	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	32	28	32	27	24	26	22	20	20	18	16	14
9	50	38	31	26	45	35	29	25	29	25	21	24	20	18	19	16	15	12
10	47	35	28	24	42	32	26	22	27	23	19	22	19	16	18	15	13	11

**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	1.9
10°-20°	154.0	5.4
20°-30°	198.4	7.0
30°-40°	188.6	6.6
40°-50°	161.5	5.7
50°-60°	123.0	4.3
60°-70°	77.8	2.7
70°-80°	38.8	1.4
80°-90°	12.5	0.4
90°-100°	105.7	3.7
100°-110°	358.8	12.6
110°-120°	381.2	13.4
120°-130°	313.8	11.0
130°-140°	252.0	8.8
140°-150°	190.4	6.7
150°-160°	133.8	4.7
160°-170°	78.8	2.8
170°-180°	25.6	0.9
0°-30°	407.7	14.3
0°-40°	596.2	20.9
0°-60°	880.8	30.9
0°-90°	1009.9	35.4
90°-120°	845.7	29.7
90°-150°	1601.9	56.2
90°-180°	1840.0	64.6
0°-180°	2850.0	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°	17	0	17	0	17	9
95°	58	18	58	18	58	75
105°	573	62	573	62	573	555
115°	754	109	754	109	754	738
125°	612	153	612	153	612	553
135°	507	179	507	179	507	394
145°	405	204	405	204	405	257
155°	340	232	340	232	340	159
165°	298	253	298	253	298	85
175°	269	264	269	264	269	26
180°	264	264	264	264	264	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	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°	6.0	6.2	6.2	6.2	6.2	6.0	5.8	6.2	6.2	6.3	6.2
90°	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2	16.8	17.3	16.8
92.5°	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3	55.8	66.1	65.2
95°	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2	174.4	199.4	176.5
97.5°	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9	357.0	340.3	256.3
100°	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3	474.9	401.7	276.6
102.5°	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8	518.9	403.8	268.9
105°	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9	512.1	376.8	253.8
107.5°	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6	467.4	347.9	246.2
110°	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7	439.3	334.1	244.6



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**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	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°	5.5	5.0	4.5	4.0	3.9	3.9	4.3	4.8	4.5	4.4	4.3
90°	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5	2.1	4.1	5.1
92.5°	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2	8.9	12.6	14.9
95°	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8	19.8	24.9	29.5
97.5°	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0	31.7	37.1	44.1
100°	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1	40.7	45.3	53.4
102.5°	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5	49.7	54.2	62.3
105°	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1	64.1	67.6	75.3
107.5°	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7	78.3	81.8	88.8
110°	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4	88.5	91.6	98.2





TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-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°	4.3	4.5	4.6	5.4	6.0	5.9	5.8	5.5	5.4	5.5	5.4
90°	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2	15.2	16.2	16.8
92.5°	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3	38.1	33.8	30.6
95°	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2	102.2	80.9	69.6
97.5°	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9	254.4	199.4	162.6
100°	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3	401.3	331.5	270.0
102.5°	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8	550.5	499.6	434.4
105°	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9	675.3	682.0	665.1
107.5°	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6	666.2	719.1	743.7
110°	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7	637.7	702.8	744.5



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-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°	5.4	5.3	5.4	5.3	5.4	5.3	5.4	5.4	5.5	5.4	5.5
90°	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.2	15.2	16.2
92.5°	30.2	28.6	29.0	28.2	29.0	28.6	30.2	30.6	33.8	38.1	44.3
95°	63.0	59.0	57.4	58.0	57.4	59.0	63.0	69.6	80.9	102.2	133.2
97.5°	138.3	125.8	118.4	114.1	118.4	125.8	138.3	162.6	199.4	254.4	310.9
100°	227.8	206.0	191.2	182.1	191.2	206.0	227.8	270.0	331.5	401.3	464.3
102.5°	388.5	351.2	332.8	320.4	332.8	351.2	388.5	434.4	499.6	550.5	564.8
105°	633.6	602.1	580.2	573.1	580.2	602.1	633.6	665.1	682.0	675.3	617.9
107.5°	747.6	745.9	741.5	732.1	741.5	745.9	747.6	743.7	719.1	666.2	579.6
110°	766.3	776.1	780.6	780.1	780.6	776.1	766.3	744.5	702.8	637.7	546.7



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-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°	5.8	5.9	6.0	5.4	4.6	4.5	4.3	4.3	4.4	4.5	4.8
90°	16.8	17.3	16.8	13.7	10.2	7.7	6.1	5.1	4.1	2.1	0.5
92.5°	55.8	66.1	65.2	50.7	34.6	23.1	18.3	14.9	12.6	8.9	6.2
95°	174.4	199.4	176.5	117.4	73.2	49.8	37.6	29.5	24.9	19.8	17.8
97.5°	357.0	340.3	256.3	158.3	96.7	67.2	53.4	44.1	37.1	31.7	29.0
100°	474.9	401.7	276.6	166.8	104.8	77.8	63.6	53.4	45.3	40.7	39.1
102.5°	518.9	403.8	268.9	167.2	112.1	87.1	72.9	62.3	54.2	49.7	48.5
105°	512.1	376.8	253.8	169.9	124.6	100.7	86.4	75.3	67.6	64.1	62.1
107.5°	467.4	347.9	246.2	176.8	137.4	114.2	99.9	88.8	81.8	78.3	76.7
110°	439.3	334.1	244.6	182.5	146.0	123.6	108.8	98.2	91.6	88.5	86.4



TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P331623-940  
 CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-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°	4.3	3.9	3.9	4.0	4.5	5.0	5.5	6.2	6.3	6.2	6.2
90°	2.1	4.1	5.1	6.1	7.7	10.2	13.7	16.8	17.3	16.8	16.2
92.5°	8.9	12.6	14.9	18.3	23.1	34.6	50.7	65.2	66.1	55.8	44.3
95°	19.8	24.9	29.5	37.6	49.8	73.2	117.4	176.5	199.4	174.4	133.2
97.5°	31.7	37.1	44.1	53.4	67.2	96.7	158.3	256.3	340.3	357.0	310.9
100°	40.7	45.3	53.4	63.6	77.8	104.8	166.8	276.6	401.7	474.9	464.3
102.5°	49.7	54.2	62.3	72.9	87.1	112.1	167.2	268.9	403.8	518.9	564.8
105°	64.1	67.6	75.3	86.4	100.7	124.6	169.9	253.8	376.8	512.1	617.9
107.5°	78.3	81.8	88.8	99.9	114.2	137.4	176.8	246.2	347.9	467.4	579.6
110°	88.5	91.6	98.2	108.8	123.6	146.0	182.5	244.6	334.1	439.3	546.7





TEST NUMBER: P331623-940

CATALOG NUMBER: SA2XXRDIP-C290D530U940-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

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



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	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°	5.8	6.0	6.2	6.2	6.2	6.2	6.0
90°	15.2	16.2	16.8	16.8	16.8	16.8	16.8
92.5°	38.1	33.8	30.6	30.2	28.6	29.0	28.2
95°	102.2	80.9	69.6	63.0	59.0	57.4	58.0
97.5°	254.4	199.4	162.6	138.3	125.8	118.4	114.1
100°	401.3	331.5	270.0	227.8	206.0	191.2	182.1
102.5°	550.5	499.6	434.4	388.5	351.2	332.8	320.4
105°	675.3	682.0	665.1	633.6	602.1	580.2	573.1
107.5°	666.2	719.1	743.7	747.6	745.9	741.5	732.1
110°	637.7	702.8	744.5	766.3	776.1	780.6	780.1



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**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)