

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: P331623-830

Luminaire Tested: **SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331623-830  
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-C290D530U830-4F0-1E-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**

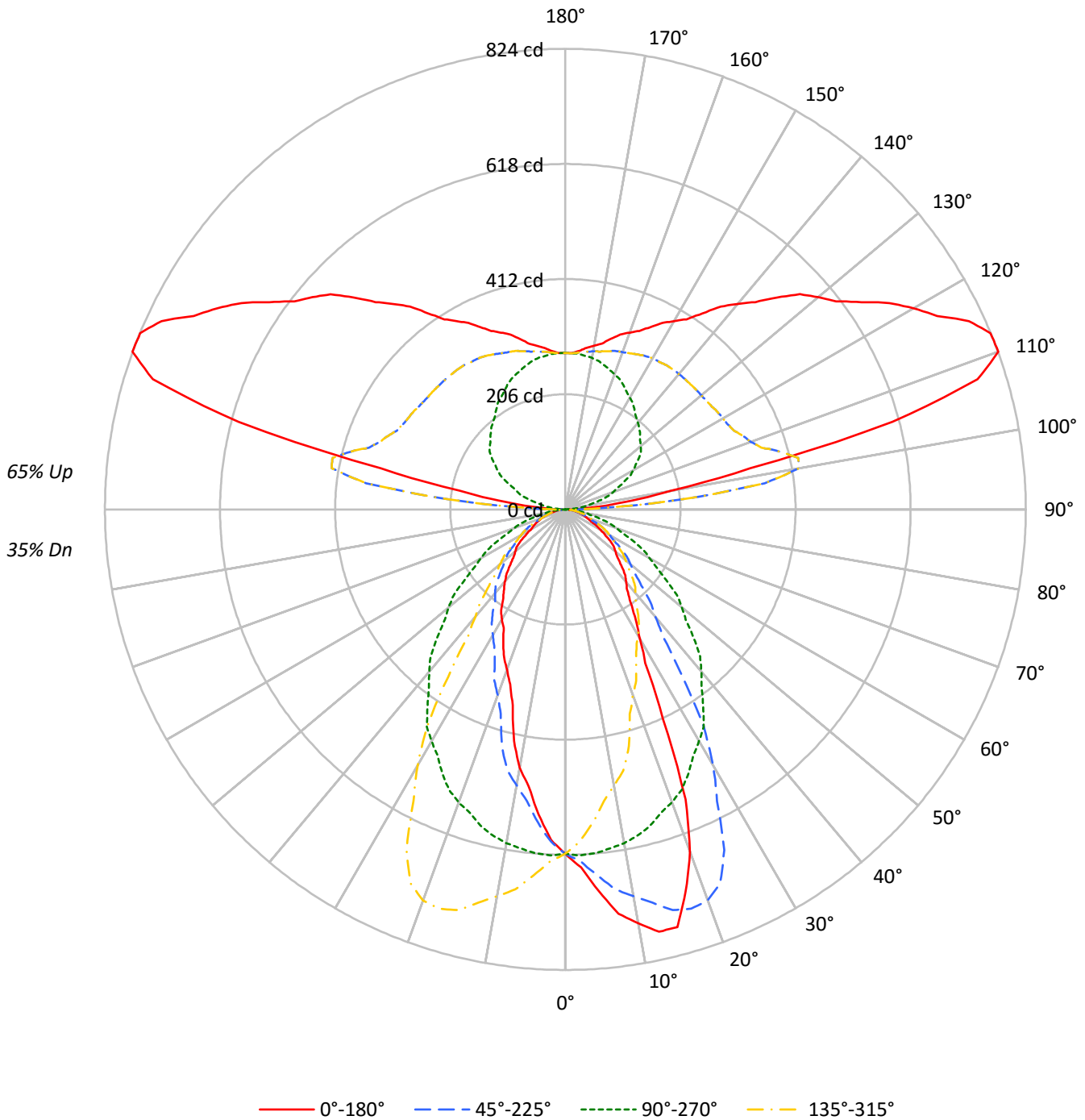
Lumens per Lamp: N/A  
Luminaire Lumens: 3012.4 lumens  
Efficiency: N/A  
Efficacy: 117.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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°	9947	9947	9947	9947
5°	11110	10010	8877	10010
10°	12329	9940	7694	9940
15°	12933	9795	6063	9795
20°	11213	9579	5246	9579
25°	7352	9283	4684	9283
30°	4950	8925	4238	8925
35°	4009	8474	3824	8474
40°	3564	7982	3539	7982
45°	3226	7405	3158	7405
50°	2936	6835	2926	6835
55°	2759	6201	2725	6201
60°	2309	5622	2283	5622
65°	1948	5104	2208	5104
70°	1799	4556	2082	4556
75°	1684	3968	1921	3968
80°	1553	3273	1711	3273
85°	1426	2575	1501	2575



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.4	1.9
10°-20°	162.8	5.4
20°-30°	209.7	7.0
30°-40°	199.3	6.6
40°-50°	170.7	5.7
50°-60°	130.0	4.3
60°-70°	82.2	2.7
70°-80°	41.0	1.4
80°-90°	13.2	0.4
90°-100°	111.8	3.7
100°-110°	379.3	12.6
110°-120°	402.9	13.4
120°-130°	331.7	11.0
130°-140°	266.3	8.8
140°-150°	201.3	6.7
150°-160°	141.4	4.7
160°-170°	83.3	2.8
170°-180°	27.1	0.9
0°-30°	430.9	14.3
0°-40°	630.2	20.9
0°-60°	931.0	30.9
0°-90°	1067.4	35.4
90°-120°	893.9	29.7
90°-150°	1693.2	56.2
90°-180°	1945.0	64.6
0°-180°	3012.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	616	616	616	616	616	
5°	686	618	548	618	686	68
15°	774	586	363	586	774	209
25°	413	521	263	521	413	196
35°	203	430	194	430	203	130
45°	141	324	138	324	141	109
55°	98	220	97	220	98	86
65°	51	134	58	134	51	52
75°	27	64	31	64	27	29
85°	8	14	8	14	8	9
90°	18	1	18	1	18	10
95°	61	19	61	19	61	80
105°	606	66	606	66	606	586
115°	797	116	797	116	797	781
125°	647	161	647	161	647	584
135°	536	189	536	189	536	416
145°	428	216	428	216	428	272
155°	360	246	360	246	360	168
165°	316	268	316	268	316	90
175°	284	279	284	279	284	28
180°	280	280	280	280	280	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	641.2	641.7	642.2	641.0	641.0	640.0	637.7	636.0	631.2	630.6	630.6
5°	685.5	685.1	686.0	683.2	679.4	678.4	674.4	669.0	663.5	657.3	656.0
7.5°	729.6	729.0	727.3	726.8	723.9	717.4	710.9	703.9	694.7	685.6	681.1
10°	752.0	759.0	754.7	747.2	748.7	738.7	733.3	724.1	716.3	702.9	699.9
12.5°	773.8	776.7	775.2	771.0	769.1	762.1	754.9	746.9	732.6	720.6	710.0
15°	773.7	777.8	778.9	777.6	778.6	778.3	774.4	767.8	755.4	742.1	730.5
17.5°	716.6	719.4	726.5	731.2	737.3	749.9	756.2	758.6	756.8	749.1	741.0
20°	652.6	647.9	667.6	677.6	686.2	707.6	726.0	733.1	744.4	744.2	742.1
22.5°	561.8	562.9	581.5	593.5	618.5	640.0	660.9	687.5	709.5	724.0	732.4
25°	412.7	420.9	439.5	455.8	483.6	523.5	559.7	601.6	641.2	672.5	702.3
27.5°	310.0	310.7	325.4	340.4	356.9	389.6	435.2	485.2	541.7	588.3	641.9
30°	265.5	264.2	270.4	279.7	293.8	319.1	353.3	402.5	458.8	529.0	591.5
32.5°	233.9	234.0	238.7	245.5	257.2	274.3	297.7	337.8	391.0	460.1	533.3
35°	203.4	203.2	206.6	211.5	216.4	227.3	243.5	264.4	301.0	365.4	440.4
37.5°	181.4	182.4	184.1	187.2	192.6	198.7	208.3	222.4	248.5	286.6	349.6
40°	169.1	169.6	171.9	174.5	177.7	182.4	190.3	201.7	220.7	251.1	297.2
42.5°	157.9	158.3	159.9	162.3	164.9	169.6	176.2	186.0	201.4	225.1	263.1
45°	141.3	141.3	142.8	143.8	146.7	150.9	156.3	164.5	175.1	192.7	217.9
47.5°	125.8	125.8	126.9	128.7	130.4	133.7	139.0	145.7	153.4	167.0	188.6
50°	116.9	117.2	117.7	119.2	120.4	123.3	127.4	133.2	141.3	151.8	169.8
52.5°	109.7	109.6	110.4	111.0	111.8	113.9	117.0	122.1	129.3	138.5	153.4
55°	98.0	97.2	98.5	99.5	100.2	101.0	102.7	105.9	112.2	119.9	131.0
57.5°	83.5	83.1	84.1	85.0	87.1	89.4	90.9	92.8	96.0	101.6	112.6
60°	71.5	71.5	73.4	74.1	76.4	79.5	82.5	84.2	87.4	91.0	99.2
62.5°	60.9	61.1	61.9	62.6	63.9	67.6	71.8	75.6	78.6	82.1	87.5
65°	51.0	51.4	51.4	51.8	52.7	53.5	55.2	58.2	63.6	68.5	72.6
67.5°	43.3	43.4	43.5	43.9	44.1	45.1	45.8	47.1	48.4	53.0	58.1
70°	38.1	38.7	38.5	38.9	39.2	39.6	40.4	41.1	43.1	44.1	47.1
72.5°	33.3	33.7	33.7	34.0	34.6	34.7	35.3	36.0	37.2	38.1	39.8
75°	27.0	26.8	27.0	27.4	27.6	27.8	27.8	28.7	29.3	30.2	31.3
77.5°	20.8	21.0	21.0	21.0	21.1	21.5	21.4	21.8	22.4	22.9	23.4
80°	16.7	16.9	16.7	16.9	17.2	17.3	17.2	17.3	18.0	18.4	18.4
82.5°	12.9	13.0	13.1	13.1	13.2	13.2	13.6	13.6	14.0	13.9	14.1
85°	7.7	7.5	7.5	7.5	7.7	7.9	7.7	7.7	7.9	7.9	7.9
87.5°	6.3	6.5	6.5	6.5	6.5	6.3	6.1	6.5	6.5	6.7	6.5
90°	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2	17.7	18.3	17.7
92.5°	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8	59.0	69.8	68.9
95°	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8	184.4	210.8	186.5
97.5°	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7	377.3	359.7	270.9
100°	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8	502.0	424.6	292.4
102.5°	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0	548.5	426.8	284.3
105°	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1	541.3	398.3	268.2
107.5°	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7	494.1	367.8	260.2
110°	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9	464.4	353.2	258.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0	443.7	343.7	259.0
115°	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9	418.2	333.3	261.3
117.5°	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4	402.1	328.2	265.1
120°	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8	393.5	325.2	267.7
122.5°	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2	386.2	323.5	270.7
125°	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3	375.7	320.4	275.2
127.5°	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6	366.1	318.6	279.8
130°	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9	359.6	317.6	283.2
132.5°	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6	354.4	317.3	286.7
135°	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2	347.2	316.6	290.8
137.5°	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7	342.1	316.5	294.5
140°	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4	339.2	316.0	296.1
142.5°	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3	336.2	316.0	297.5
145°	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8	332.2	315.0	298.9
147.5°	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3	328.1	313.0	299.3
150°	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5	324.7	311.8	298.9
152.5°	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8	321.7	309.6	298.0
155°	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3	316.0	305.9	296.7
157.5°	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7	310.8	302.0	294.3
160°	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9	306.9	299.4	292.9
162.5°	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2	303.5	297.3	291.6
165°	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1	297.7	292.9	289.2
167.5°	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3	292.2	289.2	286.7
170°	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9	289.2	287.0	285.4
172.5°	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0	286.2	284.5	283.7
175°	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8	282.2	281.6	281.2
177.5°	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8	279.9	279.5	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	630.9	629.5	628.3	625.3	623.7	620.3	619.8	619.6	615.2	610.9	609.6
5°	652.6	649.1	644.0	638.0	631.8	625.4	621.1	617.6	609.1	601.0	596.3
7.5°	674.4	667.0	658.2	646.9	637.3	626.8	618.9	611.8	599.6	588.0	580.1
10°	690.7	678.7	666.9	651.3	639.0	627.1	616.0	606.3	592.7	577.2	566.3
12.5°	700.8	687.6	671.4	656.1	640.3	625.0	610.1	597.8	581.6	565.7	552.8
15°	714.4	700.3	680.6	658.7	638.5	618.5	601.4	586.0	565.1	545.9	530.1
17.5°	725.7	706.2	685.0	659.8	636.2	611.0	588.9	569.2	545.8	522.8	504.2
20°	729.2	709.9	685.5	660.3	632.4	602.7	578.9	557.5	532.4	507.4	486.0
22.5°	727.0	712.0	684.9	654.6	626.1	595.0	568.2	543.3	515.5	489.9	465.1
25°	711.9	706.7	681.1	648.1	615.6	579.4	548.3	521.1	489.5	462.0	435.1
27.5°	676.7	687.8	671.8	636.7	600.5	561.8	526.8	495.9	463.0	432.2	405.3
30°	642.7	668.2	661.4	628.8	588.3	550.3	511.0	478.7	443.7	411.9	385.4
32.5°	596.3	638.4	645.1	617.8	576.0	534.1	493.0	460.9	424.2	390.9	365.0
35°	522.4	585.3	614.3	596.9	555.0	509.7	467.4	429.9	393.0	360.1	334.4
37.5°	434.2	520.0	568.2	569.4	530.8	483.9	437.7	400.5	362.8	330.5	302.7
40°	377.0	470.0	532.7	546.6	514.1	463.4	416.6	378.7	342.0	310.2	278.3
42.5°	325.6	418.2	495.3	519.5	493.7	443.3	396.4	356.8	321.0	291.1	258.4
45°	263.3	344.3	429.2	472.5	458.2	411.5	362.0	324.3	290.8	264.9	233.6
47.5°	222.2	279.2	361.5	419.9	419.7	377.1	328.4	292.4	261.2	236.9	211.6
50°	198.7	248.4	317.9	384.3	389.8	354.1	307.8	272.1	243.0	217.5	197.2
52.5°	177.6	218.6	281.1	344.8	360.6	329.6	284.7	251.8	223.5	200.0	182.7
55°	150.1	181.8	229.3	288.8	312.8	291.0	251.1	220.3	197.4	177.7	162.7
57.5°	127.0	150.7	188.9	236.8	264.7	251.0	218.1	193.0	173.4	155.6	143.8
60°	112.4	131.9	164.2	204.2	235.1	225.5	197.4	174.1	157.4	141.9	130.8
62.5°	98.7	115.5	143.2	175.7	203.9	199.9	177.0	157.4	142.8	128.8	119.3
65°	79.5	91.6	113.3	138.7	161.5	163.3	146.8	133.6	120.6	109.4	101.0
67.5°	63.2	71.3	86.4	107.9	124.9	131.0	120.9	110.7	100.4	91.8	84.5
70°	53.3	59.8	70.9	88.2	103.9	110.3	104.4	96.5	87.6	80.5	74.3
72.5°	43.2	49.5	57.7	70.4	83.8	90.8	88.7	83.0	75.8	69.8	64.0
75°	32.5	34.5	40.1	48.6	59.1	65.1	66.5	63.6	57.8	53.3	49.9
77.5°	24.0	25.3	27.9	32.3	39.2	44.6	46.8	46.4	42.4	39.9	36.6
80°	19.2	19.9	21.2	23.1	28.3	33.6	35.2	35.2	32.3	31.3	28.1
82.5°	14.6	15.1	15.9	17.0	19.3	24.0	25.7	26.0	24.3	22.9	20.4
85°	8.4	8.1	8.6	9.2	9.6	10.9	13.5	13.9	13.5	11.8	11.1
87.5°	5.8	5.3	4.7	4.2	4.1	4.1	4.5	5.1	4.7	4.6	4.5
90°	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6	2.2	4.3	5.4
92.5°	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6	9.4	13.3	15.7
95°	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9	20.9	26.3	31.2
97.5°	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6	33.6	39.2	46.6
100°	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4	43.0	47.9	56.5
102.5°	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3	52.5	57.3	65.9
105°	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6	67.8	71.4	79.6
107.5°	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1	82.8	86.4	93.9
110°	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3	93.5	96.8	103.8





TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9	103.0	106.6	113.2
115°	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6	118.3	121.5	127.9
117.5°	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8	133.0	136.2	141.9
120°	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3	142.4	145.6	150.5
122.5°	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3	151.1	154.3	159.6
125°	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3	162.9	166.1	172.6
127.5°	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7	172.9	177.4	184.5
130°	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3	178.4	183.8	191.3
132.5°	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4	184.1	189.8	197.8
135°	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2	191.3	197.8	205.9
137.5°	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5	199.1	205.6	214.1
140°	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1	204.2	210.8	219.3
142.5°	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7	209.4	215.5	224.0
145°	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1	218.2	223.6	231.7
147.5°	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1	226.7	231.9	239.3
150°	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1	232.7	237.0	244.0
152.5°	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1	237.9	242.2	248.4
155°	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6	246.2	249.4	255.3
157.5°	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7	253.3	255.9	261.0
160°	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5	258.0	260.1	264.5
162.5°	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2	261.8	264.0	267.5
165°	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7	267.1	268.2	271.5
167.5°	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2	271.5	272.5	274.6
170°	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2	274.1	274.7	276.3
172.5°	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9	276.3	276.0	277.6
175°	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0	278.4	277.9	279.0
177.5°	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9	279.1	278.6	279.5
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	607.5	606.2	604.0	600.6	598.5	594.9	592.6	593.9	594.3	593.9	593.6
5°	591.2	586.6	580.4	574.4	568.8	562.9	559.4	558.0	555.0	553.3	552.3
7.5°	571.4	563.6	554.9	544.4	535.6	526.2	521.5	519.2	513.0	509.7	506.8
10°	556.7	544.4	535.6	522.0	513.6	501.4	493.0	493.3	484.9	480.2	476.8
12.5°	540.4	527.0	512.4	500.0	488.4	478.6	468.5	464.5	455.6	451.1	441.9
15°	513.4	497.8	482.4	465.7	453.9	438.7	424.1	406.3	392.0	379.6	376.2
17.5°	484.0	464.6	449.1	429.5	409.3	383.8	366.9	356.6	348.0	341.4	336.5
20°	463.7	444.0	427.5	398.0	370.8	353.5	341.1	333.1	324.1	317.1	313.2
22.5°	442.5	422.0	399.4	366.5	345.3	331.4	320.4	311.2	305.1	299.6	296.1
25°	412.4	389.8	352.8	330.2	313.0	298.4	290.8	285.2	278.8	271.3	267.9
27.5°	380.5	344.8	318.1	301.2	284.9	275.5	268.5	260.2	254.5	251.1	247.5
30°	356.7	320.9	300.2	281.7	270.2	259.7	251.6	246.9	241.3	235.5	233.2
32.5°	330.2	301.6	281.6	266.4	254.6	245.6	239.2	231.6	227.6	224.0	219.1
35°	297.2	275.5	257.3	245.0	233.8	226.5	219.0	214.5	207.3	204.2	202.4
37.5°	269.3	250.5	237.0	223.9	215.0	207.0	202.4	195.2	192.1	187.8	183.8
40°	253.4	235.1	222.1	211.3	201.4	195.5	189.7	183.9	179.2	177.3	172.4
42.5°	237.4	222.4	209.3	197.7	191.1	184.6	177.4	173.1	168.2	165.1	162.1
45°	215.2	201.9	190.8	181.2	173.8	167.2	162.5	155.4	152.7	146.5	143.8
47.5°	195.7	183.3	172.7	163.5	156.5	152.1	145.2	139.7	135.3	131.4	128.1
50°	181.8	171.4	161.2	153.1	146.7	140.4	133.4	130.6	123.8	121.8	119.9
52.5°	169.1	159.3	150.0	141.9	135.5	129.5	123.3	119.6	115.0	113.1	111.7
55°	151.4	141.9	133.0	125.9	119.5	113.3	109.4	104.9	102.7	101.2	99.5
57.5°	133.6	125.1	118.2	111.0	104.5	99.6	95.2	92.5	90.3	88.3	86.2
60°	122.2	114.1	107.9	101.2	94.6	90.6	87.2	83.9	81.3	78.3	77.5
62.5°	110.3	103.1	97.5	91.0	85.2	81.5	78.2	75.2	72.1	67.8	66.5
65°	93.8	88.2	82.2	76.8	71.7	68.1	63.3	59.9	58.6	58.2	58.1
67.5°	78.9	73.6	68.4	63.0	58.3	55.0	52.5	52.0	51.1	50.9	50.2
70°	68.9	64.0	58.9	53.7	49.2	48.6	47.8	46.8	45.8	45.4	45.0
72.5°	60.0	55.0	49.8	45.7	43.7	43.0	42.1	41.2	40.5	40.1	39.9
75°	46.0	41.3	37.9	36.4	35.3	34.7	33.4	32.8	32.3	31.7	31.5
77.5°	33.2	30.4	28.9	28.0	26.9	26.2	25.4	24.8	24.3	24.2	23.8
80°	25.3	23.9	22.9	21.6	21.2	20.4	20.2	19.5	19.7	19.0	19.0
82.5°	19.6	18.0	17.1	16.5	16.0	15.4	15.2	14.9	14.9	14.4	14.4
85°	10.1	9.6	9.2	8.8	8.8	8.1	8.4	8.1	8.1	7.7	7.5
87.5°	4.5	4.7	4.9	5.7	6.3	6.2	6.1	5.8	5.7	5.8	5.7
90°	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2	16.1	17.2	17.7
92.5°	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8	40.2	35.7	32.3
95°	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8	108.0	85.5	73.6
97.5°	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7	268.9	210.8	171.9
100°	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8	424.1	350.4	285.4
102.5°	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0	581.9	528.1	459.1
105°	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1	713.8	720.9	703.0
107.5°	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7	704.2	760.1	786.1
110°	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9	674.0	742.8	786.9



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0	638.4	711.9	762.4
115°	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9	589.7	660.1	715.5
117.5°	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4	550.1	614.0	665.9
120°	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8	529.4	586.4	635.4
122.5°	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2	512.3	566.2	610.4
125°	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3	489.7	537.0	577.3
127.5°	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6	467.8	512.4	549.6
130°	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9	453.2	495.6	531.0
132.5°	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6	439.4	478.4	511.7
135°	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2	417.6	453.2	483.2
137.5°	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7	400.4	428.5	454.8
140°	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4	389.2	413.9	437.5
142.5°	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3	379.3	400.6	420.4
145°	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8	366.6	383.2	398.9
147.5°	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3	356.3	369.3	380.7
150°	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5	349.4	360.7	370.3
152.5°	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8	343.8	353.4	361.7
155°	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3	334.9	342.9	348.8
157.5°	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7	325.8	332.6	337.2
160°	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9	319.8	325.7	329.5
162.5°	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2	314.2	319.3	322.2
165°	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1	305.9	309.6	311.8
167.5°	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3	298.2	300.8	302.7
170°	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9	293.5	295.7	296.7
172.5°	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0	289.2	290.9	291.5
175°	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8	284.4	284.9	285.4
177.5°	279.5	279.5	279.9	280.8	279.9	279.5	279.9	280.8	280.8	281.3	281.3
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	591.7	592.0	591.5	591.8	591.5	592.0	591.7	593.6	593.9	594.3	593.9
5°	551.3	548.7	548.3	547.7	548.3	548.7	551.3	552.3	553.3	555.0	558.0
7.5°	503.1	502.8	501.6	500.1	501.6	502.8	503.1	506.8	509.7	513.0	519.2
10°	472.1	471.0	470.8	469.3	470.8	471.0	472.1	476.8	480.2	484.9	493.3
12.5°	435.7	428.9	428.2	424.4	428.2	428.9	435.7	441.9	451.1	455.6	464.5
15°	371.1	369.8	365.4	362.7	365.4	369.8	371.1	376.2	379.6	392.0	406.3
17.5°	334.0	329.8	328.5	327.9	328.5	329.8	334.0	336.5	341.4	348.0	356.6
20°	310.2	306.4	305.8	305.3	305.8	306.4	310.2	313.2	317.1	324.1	333.1
22.5°	293.8	289.7	288.1	286.8	288.1	289.7	293.8	296.1	299.6	305.1	311.2
25°	265.7	264.2	263.3	262.9	263.3	264.2	265.7	267.9	271.3	278.8	285.2
27.5°	243.7	240.4	239.8	238.7	239.8	240.4	243.7	247.5	251.1	254.5	260.2
30°	231.2	230.2	228.7	227.3	228.7	230.2	231.2	233.2	235.5	241.3	246.9
32.5°	216.5	215.6	214.2	213.7	214.2	215.6	216.5	219.1	224.0	227.6	231.6
35°	200.2	197.2	195.9	194.0	195.9	197.2	200.2	202.4	204.2	207.3	214.5
37.5°	182.9	181.3	179.6	180.2	179.6	181.3	182.9	183.8	187.8	192.1	195.2
40°	169.6	168.5	168.1	167.9	168.1	168.5	169.6	172.4	177.3	179.2	183.9
42.5°	158.9	156.0	154.9	154.9	154.9	156.0	158.9	162.1	165.1	168.2	173.1
45°	142.8	140.1	138.1	138.3	138.1	140.1	142.8	143.8	146.5	152.7	155.4
47.5°	126.3	126.2	125.0	125.4	125.0	126.2	126.3	128.1	131.4	135.3	139.7
50°	118.4	117.2	116.2	116.5	116.2	117.2	118.4	119.9	121.8	123.8	130.6
52.5°	110.8	109.7	109.1	110.0	109.1	109.7	110.8	111.7	113.1	115.0	119.6
55°	98.5	97.2	97.0	96.8	97.0	97.2	98.5	99.5	101.2	102.7	104.9
57.5°	84.6	83.8	82.5	82.0	82.5	83.8	84.6	86.2	88.3	90.3	92.5
60°	74.7	73.0	70.9	70.7	70.9	73.0	74.7	77.5	78.3	81.3	83.9
62.5°	65.6	65.3	64.8	64.8	64.8	65.3	65.6	66.5	67.8	72.1	75.2
65°	57.6	57.4	57.6	57.8	57.6	57.4	57.6	58.1	58.2	58.6	59.9
67.5°	50.1	49.8	49.4	49.6	49.4	49.8	50.1	50.2	50.9	51.1	52.0
70°	44.5	44.3	44.1	44.1	44.1	44.3	44.5	45.0	45.4	45.8	46.8
72.5°	39.0	39.0	38.8	38.6	38.8	39.0	39.0	39.9	40.1	40.5	41.2
75°	31.3	30.8	30.8	30.8	30.8	30.8	31.3	31.5	31.7	32.3	32.8
77.5°	23.8	23.6	23.4	23.2	23.4	23.6	23.8	23.8	24.2	24.3	24.8
80°	18.9	18.7	18.4	18.4	18.4	18.7	18.9	19.0	19.0	19.7	19.5
82.5°	14.4	14.1	14.1	13.9	14.1	14.1	14.4	14.4	14.4	14.9	14.9
85°	7.7	7.9	7.7	8.1	7.7	7.9	7.7	7.5	7.7	8.1	8.1
87.5°	5.7	5.6	5.7	5.6	5.7	5.6	5.7	5.7	5.8	5.7	5.8
90°	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.2	16.1	17.2
92.5°	32.0	30.3	30.6	29.8	30.6	30.3	32.0	32.3	35.7	40.2	46.8
95°	66.6	62.4	60.7	61.3	60.7	62.4	66.6	73.6	85.5	108.0	140.8
97.5°	146.2	133.0	125.2	120.6	125.2	133.0	146.2	171.9	210.8	268.9	328.7
100°	240.8	217.7	202.1	192.5	202.1	217.7	240.8	285.4	350.4	424.1	490.8
102.5°	410.7	371.2	351.8	338.7	351.8	371.2	410.7	459.1	528.1	581.9	597.0
105°	669.8	636.4	613.3	605.8	613.3	636.4	669.8	703.0	720.9	713.8	653.1
107.5°	790.2	788.4	783.8	773.8	783.8	788.4	790.2	786.1	760.1	704.2	612.7
110°	810.0	820.3	825.1	824.5	825.1	820.3	810.0	786.9	742.8	674.0	577.9



TEST NUMBER: P331623-830  
 CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	794.6	811.6	820.8	823.7	820.8	811.6	794.6	762.4	711.9	638.4	546.0
115°	753.6	778.4	792.3	797.1	792.3	778.4	753.6	715.5	660.1	589.7	506.9
117.5°	704.8	730.9	745.6	749.7	745.6	730.9	704.8	665.9	614.0	550.1	477.4
120°	673.0	698.2	713.8	719.2	713.8	698.2	673.0	635.4	586.4	529.4	462.8
122.5°	644.1	669.0	682.9	687.4	682.9	669.0	644.1	610.4	566.2	512.3	451.2
125°	608.5	628.9	642.3	646.7	642.3	628.9	608.5	577.3	537.0	489.7	434.3
127.5°	576.7	595.9	607.5	611.0	607.5	595.9	576.7	549.6	512.4	467.8	417.6
130°	557.4	575.7	586.4	590.7	586.4	575.7	557.4	531.0	495.6	453.2	406.9
132.5°	537.6	555.9	565.8	569.7	565.8	555.9	537.6	511.7	478.4	439.4	396.6
135°	506.3	524.1	533.8	535.9	533.8	524.1	506.3	483.2	453.2	417.6	382.2
137.5°	475.8	491.1	499.5	502.8	499.5	491.1	475.8	454.8	428.5	400.4	370.7
140°	454.8	468.7	476.7	480.0	476.7	468.7	454.8	437.5	413.9	389.2	363.4
142.5°	436.7	449.4	456.6	457.2	456.6	449.4	436.7	420.4	400.6	379.3	357.3
145°	411.7	420.8	426.2	427.8	426.2	420.8	411.7	398.9	383.2	366.6	348.8
147.5°	391.3	398.6	402.3	403.2	402.3	398.6	391.3	380.7	369.3	356.3	342.3
150°	378.4	384.8	388.0	388.6	388.0	384.8	378.4	370.3	360.7	349.4	337.5
152.5°	368.1	373.7	376.1	376.2	376.1	373.7	368.1	361.7	353.4	343.8	332.8
155°	354.8	358.5	360.7	359.6	360.7	358.5	354.8	348.8	342.9	334.9	326.3
157.5°	341.4	344.6	345.5	345.5	345.5	344.6	341.4	337.2	332.6	325.8	318.7
160°	333.3	335.9	336.5	336.5	336.5	335.9	333.3	329.5	325.7	319.8	313.9
162.5°	325.9	327.8	328.3	327.9	328.3	327.8	325.9	322.2	319.3	314.2	309.2
165°	313.9	316.0	316.0	315.6	316.0	316.0	313.9	311.8	309.6	305.9	302.1
167.5°	303.7	304.9	304.8	304.2	304.8	304.9	303.7	302.7	300.8	298.2	295.3
170°	297.3	298.9	298.3	297.3	298.3	298.9	297.3	296.7	295.7	293.5	291.9
172.5°	292.1	292.8	292.3	291.6	292.3	292.8	292.1	291.5	290.9	289.2	288.0
175°	285.4	286.0	285.4	284.4	285.4	286.0	285.4	285.4	284.9	284.4	283.8
177.5°	281.3	281.3	280.8	279.9	280.8	281.3	281.3	281.3	281.3	280.8	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	592.6	594.9	598.5	600.6	604.0	606.2	607.5	609.6	610.9	615.2	619.6
5°	559.4	562.9	568.8	574.4	580.4	586.6	591.2	596.3	601.0	609.1	617.6
7.5°	521.5	526.2	535.6	544.4	554.9	563.6	571.4	580.1	588.0	599.6	611.8
10°	493.0	501.4	513.6	522.0	535.6	544.4	556.7	566.3	577.2	592.7	606.3
12.5°	468.5	478.6	488.4	500.0	512.4	527.0	540.4	552.8	565.7	581.6	597.8
15°	424.1	438.7	453.9	465.7	482.4	497.8	513.4	530.1	545.9	565.1	586.0
17.5°	366.9	383.8	409.3	429.5	449.1	464.6	484.0	504.2	522.8	545.8	569.2
20°	341.1	353.5	370.8	398.0	427.5	444.0	463.7	486.0	507.4	532.4	557.5
22.5°	320.4	331.4	345.3	366.5	399.4	422.0	442.5	465.1	489.9	515.5	543.3
25°	290.8	298.4	313.0	330.2	352.8	389.8	412.4	435.1	462.0	489.5	521.1
27.5°	268.5	275.5	284.9	301.2	318.1	344.8	380.5	405.3	432.2	463.0	495.9
30°	251.6	259.7	270.2	281.7	300.2	320.9	356.7	385.4	411.9	443.7	478.7
32.5°	239.2	245.6	254.6	266.4	281.6	301.6	330.2	365.0	390.9	424.2	460.9
35°	219.0	226.5	233.8	245.0	257.3	275.5	297.2	334.4	360.1	393.0	429.9
37.5°	202.4	207.0	215.0	223.9	237.0	250.5	269.3	302.7	330.5	362.8	400.5
40°	189.7	195.5	201.4	211.3	222.1	235.1	253.4	278.3	310.2	342.0	378.7
42.5°	177.4	184.6	191.1	197.7	209.3	222.4	237.4	258.4	291.1	321.0	356.8
45°	162.5	167.2	173.8	181.2	190.8	201.9	215.2	233.6	264.9	290.8	324.3
47.5°	145.2	152.1	156.5	163.5	172.7	183.3	195.7	211.6	236.9	261.2	292.4
50°	133.4	140.4	146.7	153.1	161.2	171.4	181.8	197.2	217.5	243.0	272.1
52.5°	123.3	129.5	135.5	141.9	150.0	159.3	169.1	182.7	200.0	223.5	251.8
55°	109.4	113.3	119.5	125.9	133.0	141.9	151.4	162.7	177.7	197.4	220.3
57.5°	95.2	99.6	104.5	111.0	118.2	125.1	133.6	143.8	155.6	173.4	193.0
60°	87.2	90.6	94.6	101.2	107.9	114.1	122.2	130.8	141.9	157.4	174.1
62.5°	78.2	81.5	85.2	91.0	97.5	103.1	110.3	119.3	128.8	142.8	157.4
65°	63.3	68.1	71.7	76.8	82.2	88.2	93.8	101.0	109.4	120.6	133.6
67.5°	52.5	55.0	58.3	63.0	68.4	73.6	78.9	84.5	91.8	100.4	110.7
70°	47.8	48.6	49.2	53.7	58.9	64.0	68.9	74.3	80.5	87.6	96.5
72.5°	42.1	43.0	43.7	45.7	49.8	55.0	60.0	64.0	69.8	75.8	83.0
75°	33.4	34.7	35.3	36.4	37.9	41.3	46.0	49.9	53.3	57.8	63.6
77.5°	25.4	26.2	26.9	28.0	28.9	30.4	33.2	36.6	39.9	42.4	46.4
80°	20.2	20.4	21.2	21.6	22.9	23.9	25.3	28.1	31.3	32.3	35.2
82.5°	15.2	15.4	16.0	16.5	17.1	18.0	19.6	20.4	22.9	24.3	26.0
85°	8.4	8.1	8.8	8.8	9.2	9.6	10.1	11.1	11.8	13.5	13.9
87.5°	6.1	6.2	6.3	5.7	4.9	4.7	4.5	4.5	4.6	4.7	5.1
90°	17.7	18.3	17.7	14.5	10.7	8.1	6.4	5.4	4.3	2.2	0.6
92.5°	59.0	69.8	68.9	53.6	36.6	24.4	19.3	15.7	13.3	9.4	6.6
95°	184.4	210.8	186.5	124.1	77.4	52.7	39.8	31.2	26.3	20.9	18.9
97.5°	377.3	359.7	270.9	167.3	102.2	71.1	56.5	46.6	39.2	33.6	30.6
100°	502.0	424.6	292.4	176.3	110.7	82.3	67.2	56.5	47.9	43.0	41.4
102.5°	548.5	426.8	284.3	176.7	118.5	92.1	77.1	65.9	57.3	52.5	51.3
105°	541.3	398.3	268.2	179.6	131.7	106.4	91.3	79.6	71.4	67.8	65.6
107.5°	494.1	367.8	260.2	186.9	145.2	120.7	105.6	93.9	86.4	82.8	81.1
110°	464.4	353.2	258.5	192.9	154.3	130.6	115.0	103.8	96.8	93.5	91.3



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	443.7	343.7	259.0	199.4	162.9	140.1	124.0	113.2	106.6	103.0	100.9
115°	418.2	333.3	261.3	209.1	176.3	153.2	138.6	127.9	121.5	118.3	115.6
117.5°	402.1	328.2	265.1	219.4	188.7	167.3	152.2	141.9	136.2	133.0	130.8
120°	393.5	325.2	267.7	226.3	197.3	176.3	161.3	150.5	145.6	142.4	140.3
122.5°	386.2	323.5	270.7	232.3	205.5	185.8	170.3	159.6	154.3	151.1	149.3
125°	375.7	320.4	275.2	241.9	217.7	198.3	183.3	172.6	166.1	162.9	161.3
127.5°	366.1	318.6	279.8	250.8	229.1	210.3	194.8	184.5	177.4	172.9	170.7
130°	359.6	317.6	283.2	256.4	236.0	217.2	202.1	191.3	183.8	178.4	176.3
132.5°	354.4	317.3	286.7	262.0	242.0	224.0	209.0	197.8	189.8	184.1	181.4
135°	347.2	316.6	290.8	269.3	250.5	233.3	218.2	205.9	197.8	191.3	189.2
137.5°	342.1	316.5	294.5	274.8	257.4	240.3	226.4	214.1	205.6	199.1	196.5
140°	339.2	316.0	296.1	277.9	261.3	245.2	231.1	219.3	210.8	204.2	202.1
142.5°	336.2	316.0	297.5	280.5	264.3	248.5	235.4	224.0	215.5	209.4	207.7
145°	332.2	315.0	298.9	283.8	268.7	254.2	242.4	231.7	223.6	218.2	216.1
147.5°	328.1	313.0	299.3	285.7	272.4	258.7	248.3	239.3	231.9	226.7	225.1
150°	324.7	311.8	298.9	286.5	274.1	261.7	252.1	244.0	237.0	232.7	231.1
152.5°	321.7	309.6	298.0	286.9	275.9	264.8	256.0	248.4	242.2	237.9	237.1
155°	316.0	305.9	296.7	287.6	278.4	269.3	261.3	255.3	249.4	246.2	245.6
157.5°	310.8	302.0	294.3	287.6	280.2	272.5	265.8	261.0	255.9	253.3	252.7
160°	306.9	299.4	292.9	287.6	281.2	274.7	268.7	264.5	260.1	258.0	257.5
162.5°	303.5	297.3	291.6	287.1	281.5	276.0	271.4	267.5	264.0	261.8	262.2
165°	297.7	292.9	289.2	286.0	282.2	277.4	274.1	271.5	268.2	267.1	267.7
167.5°	292.2	289.2	286.7	285.2	282.1	278.5	276.5	274.6	272.5	271.5	272.2
170°	289.2	287.0	285.4	284.4	281.6	279.0	277.4	276.3	274.7	274.1	275.2
172.5°	286.2	284.5	283.7	283.0	281.3	279.4	278.2	277.6	276.0	276.3	276.9
175°	282.2	281.6	281.2	281.6	280.6	279.5	279.0	279.0	277.9	278.4	279.0
177.5°	279.9	279.5	279.9	280.8	279.9	279.5	279.5	279.5	278.6	279.1	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	619.8	620.3	623.7	625.3	628.3	629.5	630.9	630.6	630.6	631.2	636.0
5°	621.1	625.4	631.8	638.0	644.0	649.1	652.6	656.0	657.3	663.5	669.0
7.5°	618.9	626.8	637.3	646.9	658.2	667.0	674.4	681.1	685.6	694.7	703.9
10°	616.0	627.1	639.0	651.3	666.9	678.7	690.7	699.9	702.9	716.3	724.1
12.5°	610.1	625.0	640.3	656.1	671.4	687.6	700.8	710.0	720.6	732.6	746.9
15°	601.4	618.5	638.5	658.7	680.6	700.3	714.4	730.5	742.1	755.4	767.8
17.5°	588.9	611.0	636.2	659.8	685.0	706.2	725.7	741.0	749.1	756.8	758.6
20°	578.9	602.7	632.4	660.3	685.5	709.9	729.2	742.1	744.2	744.4	733.1
22.5°	568.2	595.0	626.1	654.6	684.9	712.0	727.0	732.4	724.0	709.5	687.5
25°	548.3	579.4	615.6	648.1	681.1	706.7	711.9	702.3	672.5	641.2	601.6
27.5°	526.8	561.8	600.5	636.7	671.8	687.8	676.7	641.9	588.3	541.7	485.2
30°	511.0	550.3	588.3	628.8	661.4	668.2	642.7	591.5	529.0	458.8	402.5
32.5°	493.0	534.1	576.0	617.8	645.1	638.4	596.3	533.3	460.1	391.0	337.8
35°	467.4	509.7	555.0	596.9	614.3	585.3	522.4	440.4	365.4	301.0	264.4
37.5°	437.7	483.9	530.8	569.4	568.2	520.0	434.2	349.6	286.6	248.5	222.4
40°	416.6	463.4	514.1	546.6	532.7	470.0	377.0	297.2	251.1	220.7	201.7
42.5°	396.4	443.3	493.7	519.5	495.3	418.2	325.6	263.1	225.1	201.4	186.0
45°	362.0	411.5	458.2	472.5	429.2	344.3	263.3	217.9	192.7	175.1	164.5
47.5°	328.4	377.1	419.7	419.9	361.5	279.2	222.2	188.6	167.0	153.4	145.7
50°	307.8	354.1	389.8	384.3	317.9	248.4	198.7	169.8	151.8	141.3	133.2
52.5°	284.7	329.6	360.6	344.8	281.1	218.6	177.6	153.4	138.5	129.3	122.1
55°	251.1	291.0	312.8	288.8	229.3	181.8	150.1	131.0	119.9	112.2	105.9
57.5°	218.1	251.0	264.7	236.8	188.9	150.7	127.0	112.6	101.6	96.0	92.8
60°	197.4	225.5	235.1	204.2	164.2	131.9	112.4	99.2	91.0	87.4	84.2
62.5°	177.0	199.9	203.9	175.7	143.2	115.5	98.7	87.5	82.1	78.6	75.6
65°	146.8	163.3	161.5	138.7	113.3	91.6	79.5	72.6	68.5	63.6	58.2
67.5°	120.9	131.0	124.9	107.9	86.4	71.3	63.2	58.1	53.0	48.4	47.1
70°	104.4	110.3	103.9	88.2	70.9	59.8	53.3	47.1	44.1	43.1	41.1
72.5°	88.7	90.8	83.8	70.4	57.7	49.5	43.2	39.8	38.1	37.2	36.0
75°	66.5	65.1	59.1	48.6	40.1	34.5	32.5	31.3	30.2	29.3	28.7
77.5°	46.8	44.6	39.2	32.3	27.9	25.3	24.0	23.4	22.9	22.4	21.8
80°	35.2	33.6	28.3	23.1	21.2	19.9	19.2	18.4	18.4	18.0	17.3
82.5°	25.7	24.0	19.3	17.0	15.9	15.1	14.6	14.1	13.9	14.0	13.6
85°	13.5	10.9	9.6	9.2	8.6	8.1	8.4	7.9	7.9	7.9	7.7
87.5°	4.5	4.1	4.1	4.2	4.7	5.3	5.8	6.5	6.7	6.5	6.5
90°	2.2	4.3	5.4	6.4	8.1	10.7	14.5	17.7	18.3	17.7	17.2
92.5°	9.4	13.3	15.7	19.3	24.4	36.6	53.6	68.9	69.8	59.0	46.8
95°	20.9	26.3	31.2	39.8	52.7	77.4	124.1	186.5	210.8	184.4	140.8
97.5°	33.6	39.2	46.6	56.5	71.1	102.2	167.3	270.9	359.7	377.3	328.7
100°	43.0	47.9	56.5	67.2	82.3	110.7	176.3	292.4	424.6	502.0	490.8
102.5°	52.5	57.3	65.9	77.1	92.1	118.5	176.7	284.3	426.8	548.5	597.0
105°	67.8	71.4	79.6	91.3	106.4	131.7	179.6	268.2	398.3	541.3	653.1
107.5°	82.8	86.4	93.9	105.6	120.7	145.2	186.9	260.2	367.8	494.1	612.7
110°	93.5	96.8	103.8	115.0	130.6	154.3	192.9	258.5	353.2	464.4	577.9





TEST NUMBER: P331623-830

CATALOG NUMBER: SA2XXRDIP-C290D530U830-4F0-1E-UDD-A4

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	103.0	106.6	113.2	124.0	140.1	162.9	199.4	259.0	343.7	443.7	546.0
115°	118.3	121.5	127.9	138.6	153.2	176.3	209.1	261.3	333.3	418.2	506.9
117.5°	133.0	136.2	141.9	152.2	167.3	188.7	219.4	265.1	328.2	402.1	477.4
120°	142.4	145.6	150.5	161.3	176.3	197.3	226.3	267.7	325.2	393.5	462.8
122.5°	151.1	154.3	159.6	170.3	185.8	205.5	232.3	270.7	323.5	386.2	451.2
125°	162.9	166.1	172.6	183.3	198.3	217.7	241.9	275.2	320.4	375.7	434.3
127.5°	172.9	177.4	184.5	194.8	210.3	229.1	250.8	279.8	318.6	366.1	417.6
130°	178.4	183.8	191.3	202.1	217.2	236.0	256.4	283.2	317.6	359.6	406.9
132.5°	184.1	189.8	197.8	209.0	224.0	242.0	262.0	286.7	317.3	354.4	396.6
135°	191.3	197.8	205.9	218.2	233.3	250.5	269.3	290.8	316.6	347.2	382.2
137.5°	199.1	205.6	214.1	226.4	240.3	257.4	274.8	294.5	316.5	342.1	370.7
140°	204.2	210.8	219.3	231.1	245.2	261.3	277.9	296.1	316.0	339.2	363.4
142.5°	209.4	215.5	224.0	235.4	248.5	264.3	280.5	297.5	316.0	336.2	357.3
145°	218.2	223.6	231.7	242.4	254.2	268.7	283.8	298.9	315.0	332.2	348.8
147.5°	226.7	231.9	239.3	248.3	258.7	272.4	285.7	299.3	313.0	328.1	342.3
150°	232.7	237.0	244.0	252.1	261.7	274.1	286.5	298.9	311.8	324.7	337.5
152.5°	237.9	242.2	248.4	256.0	264.8	275.9	286.9	298.0	309.6	321.7	332.8
155°	246.2	249.4	255.3	261.3	269.3	278.4	287.6	296.7	305.9	316.0	326.3
157.5°	253.3	255.9	261.0	265.8	272.5	280.2	287.6	294.3	302.0	310.8	318.7
160°	258.0	260.1	264.5	268.7	274.7	281.2	287.6	292.9	299.4	306.9	313.9
162.5°	261.8	264.0	267.5	271.4	276.0	281.5	287.1	291.6	297.3	303.5	309.2
165°	267.1	268.2	271.5	274.1	277.4	282.2	286.0	289.2	292.9	297.7	302.1
167.5°	271.5	272.5	274.6	276.5	278.5	282.1	285.2	286.7	289.2	292.2	295.3
170°	274.1	274.7	276.3	277.4	279.0	281.6	284.4	285.4	287.0	289.2	291.9
172.5°	276.3	276.0	277.6	278.2	279.4	281.3	283.0	283.7	284.5	286.2	288.0
175°	278.4	277.9	279.0	279.0	279.5	280.6	281.6	281.2	281.6	282.2	283.8
177.5°	279.1	278.6	279.5	279.5	279.5	279.5	280.8	279.9	279.5	279.9	280.8
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	616.1	616.1	616.1	616.1	616.1	616.1	616.1
2.5°	637.7	640.0	641.0	641.0	642.2	641.7	641.2
5°	674.4	678.4	679.4	683.2	686.0	685.1	685.5
7.5°	710.9	717.4	723.9	726.8	727.3	729.0	729.6
10°	733.3	738.7	748.7	747.2	754.7	759.0	752.0
12.5°	754.9	762.1	769.1	771.0	775.2	776.7	773.8
15°	774.4	778.3	778.6	777.6	778.9	777.8	773.7
17.5°	756.2	749.9	737.3	731.2	726.5	719.4	716.6
20°	726.0	707.6	686.2	677.6	667.6	647.9	652.6
22.5°	660.9	640.0	618.5	593.5	581.5	562.9	561.8
25°	559.7	523.5	483.6	455.8	439.5	420.9	412.7
27.5°	435.2	389.6	356.9	340.4	325.4	310.7	310.0
30°	353.3	319.1	293.8	279.7	270.4	264.2	265.5
32.5°	297.7	274.3	257.2	245.5	238.7	234.0	233.9
35°	243.5	227.3	216.4	211.5	206.6	203.2	203.4
37.5°	208.3	198.7	192.6	187.2	184.1	182.4	181.4
40°	190.3	182.4	177.7	174.5	171.9	169.6	169.1
42.5°	176.2	169.6	164.9	162.3	159.9	158.3	157.9
45°	156.3	150.9	146.7	143.8	142.8	141.3	141.3
47.5°	139.0	133.7	130.4	128.7	126.9	125.8	125.8
50°	127.4	123.3	120.4	119.2	117.7	117.2	116.9
52.5°	117.0	113.9	111.8	111.0	110.4	109.6	109.7
55°	102.7	101.0	100.2	99.5	98.5	97.2	98.0
57.5°	90.9	89.4	87.1	85.0	84.1	83.1	83.5
60°	82.5	79.5	76.4	74.1	73.4	71.5	71.5
62.5°	71.8	67.6	63.9	62.6	61.9	61.1	60.9
65°	55.2	53.5	52.7	51.8	51.4	51.4	51.0
67.5°	45.8	45.1	44.1	43.9	43.5	43.4	43.3
70°	40.4	39.6	39.2	38.9	38.5	38.7	38.1
72.5°	35.3	34.7	34.6	34.0	33.7	33.7	33.3
75°	27.8	27.8	27.6	27.4	27.0	26.8	27.0
77.5°	21.4	21.5	21.1	21.0	21.0	21.0	20.8
80°	17.2	17.3	17.2	16.9	16.7	16.9	16.7
82.5°	13.6	13.2	13.2	13.1	13.1	13.0	12.9
85°	7.7	7.9	7.7	7.5	7.5	7.5	7.7
87.5°	6.1	6.3	6.5	6.5	6.5	6.5	6.3
90°	16.1	17.2	17.7	17.7	17.7	17.7	17.7
92.5°	40.2	35.7	32.3	32.0	30.3	30.6	29.8
95°	108.0	85.5	73.6	66.6	62.4	60.7	61.3
97.5°	268.9	210.8	171.9	146.2	133.0	125.2	120.6
100°	424.1	350.4	285.4	240.8	217.7	202.1	192.5
102.5°	581.9	528.1	459.1	410.7	371.2	351.8	338.7
105°	713.8	720.9	703.0	669.8	636.4	613.3	605.8
107.5°	704.2	760.1	786.1	790.2	788.4	783.8	773.8
110°	674.0	742.8	786.9	810.0	820.3	825.1	824.5



TEST NUMBER: P331623-830

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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	638.4	711.9	762.4	794.6	811.6	820.8	823.7
115°	589.7	660.1	715.5	753.6	778.4	792.3	797.1
117.5°	550.1	614.0	665.9	704.8	730.9	745.6	749.7
120°	529.4	586.4	635.4	673.0	698.2	713.8	719.2
122.5°	512.3	566.2	610.4	644.1	669.0	682.9	687.4
125°	489.7	537.0	577.3	608.5	628.9	642.3	646.7
127.5°	467.8	512.4	549.6	576.7	595.9	607.5	611.0
130°	453.2	495.6	531.0	557.4	575.7	586.4	590.7
132.5°	439.4	478.4	511.7	537.6	555.9	565.8	569.7
135°	417.6	453.2	483.2	506.3	524.1	533.8	535.9
137.5°	400.4	428.5	454.8	475.8	491.1	499.5	502.8
140°	389.2	413.9	437.5	454.8	468.7	476.7	480.0
142.5°	379.3	400.6	420.4	436.7	449.4	456.6	457.2
145°	366.6	383.2	398.9	411.7	420.8	426.2	427.8
147.5°	356.3	369.3	380.7	391.3	398.6	402.3	403.2
150°	349.4	360.7	370.3	378.4	384.8	388.0	388.6
152.5°	343.8	353.4	361.7	368.1	373.7	376.1	376.2
155°	334.9	342.9	348.8	354.8	358.5	360.7	359.6
157.5°	325.8	332.6	337.2	341.4	344.6	345.5	345.5
160°	319.8	325.7	329.5	333.3	335.9	336.5	336.5
162.5°	314.2	319.3	322.2	325.9	327.8	328.3	327.9
165°	305.9	309.6	311.8	313.9	316.0	316.0	315.6
167.5°	298.2	300.8	302.7	303.7	304.9	304.8	304.2
170°	293.5	295.7	296.7	297.3	298.9	298.3	297.3
172.5°	289.2	290.9	291.5	292.1	292.8	292.3	291.6
175°	284.4	284.9	285.4	285.4	286.0	285.4	284.4
177.5°	280.8	281.3	281.3	281.3	281.3	280.8	279.9
180°	279.5	279.5	279.5	279.5	279.5	279.5	279.5

(END OF REPORT)