

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: P331251-830

Luminaire Tested: **SA2XXDIP-C290D530U830-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

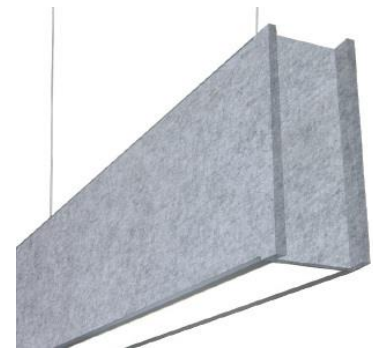
Test Information

Test Method: LM-79-08
Report Number: P331251-830
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: SA2XXDIP-C290D530U830-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 530 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3176.7 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

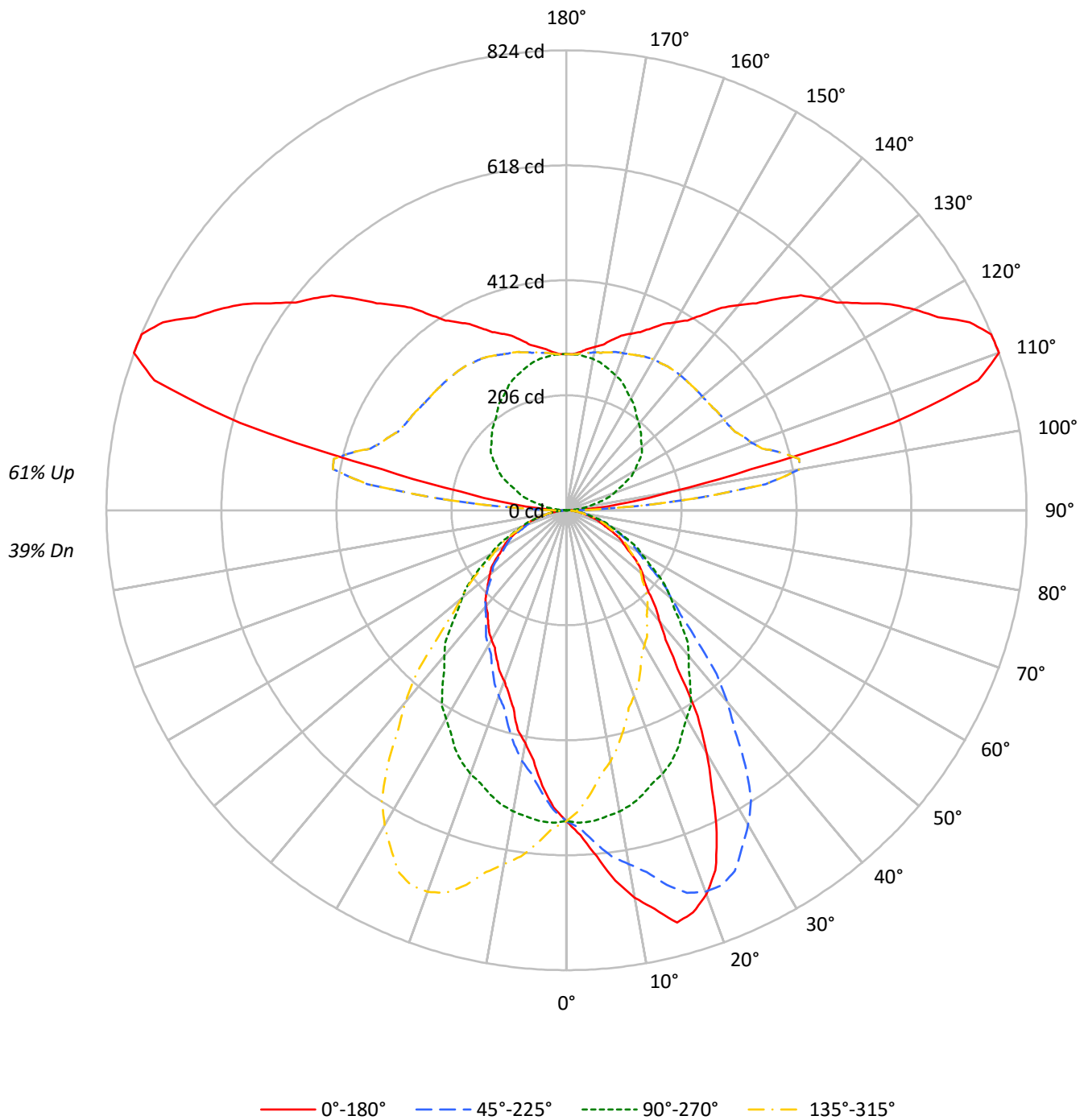
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	92	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39
2	87	80	74	70	79	73	68	64	60	57	53	48	45	43	37	35	34
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	29	27	25
5	67	56	48	43	61	51	45	40	43	38	34	34	31	28	27	24	22
6	62	50	43	37	56	46	40	35	39	33	30	31	27	25	24	22	20
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	20	18
8	53	41	34	29	48	38	32	27	32	27	23	26	22	20	21	18	16
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	15
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8995	8995	8995	8995
5°	10084	9054	8023	9054
10°	11555	8979	6943	8979
15°	12784	8816	6135	8816
20°	12589	8639	5593	8639
25°	11352	8402	5248	8402
30°	9380	8028	4998	8028
35°	6838	7634	4819	7634
40°	5461	7172	4719	7172
45°	4772	6635	4587	6635
50°	4486	6116	4496	6116
55°	4132	5588	4374	5588
60°	3788	5025	4191	5025
65°	3454	4523	4008	4523
70°	3135	4032	3744	4032
75°	2782	3487	3313	3487
80°	2390	2882	2669	2882
85°	2149	2149	1593	2149

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.7
10°-20°	154.2	4.9
20°-30°	223.9	7.0
30°-40°	236.2	7.4
40°-50°	209.2	6.6
50°-60°	166.9	5.3
60°-70°	113.4	3.6
70°-80°	58.2	1.8
80°-90°	16.5	0.5
90°-100°	111.8	3.5
100°-110°	379.3	11.9
110°-120°	402.9	12.7
120°-130°	331.7	10.4
130°-140°	266.3	8.4
140°-150°	201.3	6.3
150°-160°	141.4	4.5
160°-170°	83.3	2.6
170°-180°	27.1	0.9
0°-30°	431.2	13.6
0°-40°	667.4	21.0
0°-60°	1043.5	32.8
0°-90°	1231.6	38.8
90°-120°	893.9	28.1
90°-150°	1693.2	53.3
90°-180°	1945.0	61.2
0°-180°	3176.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	557	557	557	557	557	
5°	622	559	495	559	622	62
15°	765	527	367	527	765	211
25°	637	472	295	472	637	288
35°	347	387	244	387	347	226
45°	209	291	201	291	209	164
55°	147	198	155	198	147	132
65°	90	118	105	118	90	90
75°	45	56	53	56	45	48
85°	12	12	9	12	12	13
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°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	582.8	583.0	583.3	580.6	580.2	580.2	577.9	575.8	573.3	570.1	570.5
5°	622.2	624.5	625.4	622.8	619.0	618.6	614.9	609.0	603.3	598.9	595.7
7.5°	669.2	670.1	668.1	664.7	661.9	656.7	649.9	643.3	634.0	625.5	619.2
10°	704.8	706.2	702.5	697.6	693.5	687.5	677.7	667.6	655.4	643.7	634.2
12.5°	731.9	735.1	730.4	729.8	722.8	714.5	702.9	697.8	680.6	664.2	654.0
15°	764.8	764.6	765.1	760.9	755.8	754.5	742.2	728.6	704.5	694.7	678.1
17.5°	755.3	758.6	760.1	760.0	759.9	759.0	755.1	746.6	734.4	718.8	699.6
20°	732.7	737.0	737.6	742.5	745.4	748.9	750.5	748.1	740.6	727.5	710.9
22.5°	697.8	699.0	701.0	708.6	714.6	723.8	728.5	736.5	733.6	727.2	713.2
25°	637.2	635.1	642.5	646.4	660.3	674.9	685.4	696.9	707.2	713.4	709.4
27.5°	564.5	561.3	572.5	582.8	594.0	609.8	626.1	645.5	661.5	681.6	688.5
30°	503.1	505.1	515.8	526.7	543.8	566.1	584.6	605.7	628.7	651.1	666.8
32.5°	437.1	444.4	451.2	468.0	483.1	507.8	534.9	561.4	589.9	615.5	639.7
35°	346.9	355.4	364.9	377.0	398.2	422.8	449.2	484.9	524.0	558.8	587.5
37.5°	292.0	290.6	296.0	304.8	322.0	341.9	372.2	407.5	453.4	494.4	534.9
40°	259.1	258.3	262.0	270.2	283.2	297.8	324.4	355.4	398.0	448.2	496.3
42.5°	236.5	237.0	239.1	244.9	253.8	265.8	285.7	312.1	351.1	398.3	450.1
45°	209.0	210.5	212.8	215.7	220.7	230.6	241.8	260.6	291.4	330.8	381.7
47.5°	189.2	189.3	191.6	194.1	197.1	202.6	211.8	223.6	245.3	277.4	321.2
50°	178.6	177.1	178.8	180.7	183.9	187.8	193.8	204.9	219.4	245.3	282.0
52.5°	165.5	165.6	167.1	167.9	170.7	174.6	180.0	187.8	201.0	221.2	251.3
55°	146.8	148.0	148.8	150.1	152.7	155.4	159.8	164.9	175.1	190.3	212.6
57.5°	129.3	129.7	130.5	133.0	134.6	137.1	141.2	145.9	152.6	163.8	180.6
60°	117.3	117.3	119.0	120.1	122.2	124.8	128.0	132.5	138.6	147.7	161.3
62.5°	106.4	106.2	106.9	108.7	110.3	112.6	115.8	119.7	125.4	133.6	144.6
65°	90.4	89.9	91.2	91.6	93.3	95.7	98.3	102.4	106.9	112.8	122.7
67.5°	74.9	75.5	76.2	76.9	77.9	80.4	82.1	84.9	88.8	93.8	100.4
70°	66.4	66.4	66.4	67.0	68.3	69.6	71.3	73.6	77.3	81.5	87.6
72.5°	56.7	57.5	58.2	57.8	59.4	60.1	62.2	63.5	67.0	69.7	75.0
75°	44.6	44.6	44.6	45.6	46.3	46.8	48.2	49.5	51.2	54.6	57.4
77.5°	33.3	33.2	33.4	33.6	34.3	35.1	35.4	36.6	38.2	39.8	42.1
80°	25.7	26.1	26.3	26.8	26.8	27.1	27.4	28.9	30.0	31.0	32.5
82.5°	19.9	20.0	20.0	20.1	20.3	20.5	21.1	21.6	22.0	22.8	23.9
85°	11.6	11.3	11.3	11.8	11.6	11.6	12.0	12.4	12.4	12.6	13.3
87.5°	8.0	8.0	8.2	8.0	8.0	8.1	7.8	7.9	8.2	8.5	8.5
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°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	571.7	570.3	569.5	566.4	563.6	560.9	560.1	560.3	556.6	553.0	551.5
5°	594.0	589.7	585.6	579.9	573.0	565.4	561.7	558.6	551.1	543.0	538.3
7.5°	613.9	607.8	599.9	589.1	579.1	567.3	559.8	553.2	542.2	530.7	523.7
10°	626.0	617.7	607.7	594.4	582.2	567.8	557.8	547.7	534.9	521.1	512.6
12.5°	636.5	625.3	615.4	598.3	583.9	565.9	554.0	539.8	526.3	510.0	501.6
15°	661.4	640.6	621.8	602.5	584.8	559.7	546.4	527.4	509.6	489.5	479.8
17.5°	680.6	657.2	627.6	603.1	582.4	554.6	535.2	512.4	491.3	468.3	455.2
20°	691.5	664.8	632.9	603.8	579.0	547.2	526.0	502.8	478.2	452.2	438.1
22.5°	698.0	670.0	638.4	601.2	572.1	541.3	514.6	489.0	464.1	436.1	421.3
25°	700.1	674.5	641.0	599.1	563.5	528.7	496.5	471.6	441.5	415.4	393.8
27.5°	689.9	671.6	639.4	595.0	553.6	512.8	477.0	448.9	417.1	388.7	366.9
30°	677.4	666.8	635.5	591.0	545.7	501.9	462.5	430.6	398.9	370.2	347.9
32.5°	658.1	655.8	628.3	585.1	537.3	488.0	447.2	415.0	379.8	351.7	330.5
35°	620.1	630.4	613.0	572.1	521.6	468.3	424.1	387.3	350.9	324.0	304.1
37.5°	569.1	594.7	590.1	553.1	500.2	446.8	398.0	359.6	324.9	297.7	278.1
40°	534.0	566.6	571.3	538.5	485.2	430.2	378.5	340.3	306.4	281.5	261.8
42.5°	496.3	534.3	547.2	521.0	468.7	412.6	361.1	321.4	287.9	263.7	246.3
45°	433.2	483.4	506.8	491.8	441.3	383.9	330.8	290.6	260.1	237.4	223.9
47.5°	374.1	429.0	460.4	455.2	410.8	353.9	301.4	262.8	233.2	215.1	203.0
50°	332.3	388.8	426.7	428.5	388.8	332.5	279.8	243.5	216.2	199.3	189.5
52.5°	296.0	350.0	391.2	400.4	364.3	310.3	260.5	224.2	200.3	184.7	176.0
55°	248.5	294.2	340.0	356.8	327.8	276.4	230.4	198.5	176.0	165.3	157.6
57.5°	206.7	244.7	287.0	305.5	287.7	243.6	200.5	172.8	154.6	145.2	139.2
60°	184.5	214.5	252.2	274.3	258.8	219.7	182.0	155.6	140.6	132.3	126.8
62.5°	164.0	190.6	222.4	242.6	234.2	197.3	163.5	140.3	127.3	119.5	115.5
65°	135.3	156.3	181.0	199.5	194.0	166.0	138.3	118.4	108.1	101.9	98.7
67.5°	111.4	126.6	143.6	159.9	155.5	135.6	113.5	97.9	90.3	84.9	82.9
70°	96.3	107.9	123.1	136.2	132.5	116.3	98.7	85.4	78.8	74.3	72.4
72.5°	82.0	91.4	103.1	113.8	111.3	97.7	83.1	73.1	68.0	63.8	62.3
75°	61.9	69.2	76.3	83.3	82.7	72.2	63.6	55.9	51.8	48.6	48.0
77.5°	45.7	49.8	54.6	58.7	57.6	51.6	44.9	40.4	37.5	35.3	35.0
80°	34.9	37.2	40.7	43.6	42.2	39.6	34.2	31.0	28.9	26.8	25.9
82.5°	25.4	27.6	29.7	31.4	30.2	27.8	24.5	22.3	21.0	19.6	19.2
85°	13.3	14.5	15.5	15.8	15.5	13.9	12.4	11.6	10.5	9.8	9.6
87.5°	8.0	7.3	6.8	6.8	6.0	5.8	4.7	3.9	4.1	4.2	4.1
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: P331251-830

CATALOG NUMBER: SA2XXDIP-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: P331251-830

CATALOG NUMBER: SA2XXDIP-C290D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	549.8	548.7	545.2	543.3	540.2	537.2	535.4	536.2	536.9	536.6	536.0
5°	534.0	529.9	523.7	518.4	514.5	507.5	504.4	502.9	501.6	500.2	498.7
7.5°	515.2	508.8	499.9	492.3	485.1	476.3	471.3	468.3	465.2	461.8	458.8
10°	501.9	492.9	483.4	472.8	464.2	456.3	449.2	444.5	440.2	436.1	433.2
12.5°	487.9	477.5	465.8	451.2	441.8	430.4	429.3	421.0	414.3	411.8	408.3
15°	465.5	450.9	436.1	418.8	411.3	401.1	394.6	388.1	382.4	378.3	377.3
17.5°	440.1	421.2	406.5	394.1	381.8	371.3	365.3	360.2	355.4	350.1	349.3
20°	420.8	404.4	388.4	377.5	364.9	354.1	346.9	341.8	337.6	334.4	331.7
22.5°	402.4	384.6	369.9	358.0	345.5	336.9	331.1	326.1	322.7	319.2	316.6
25°	373.0	359.1	343.0	329.5	319.2	313.7	309.0	304.7	302.6	300.2	297.2
27.5°	347.2	331.8	316.8	306.3	297.3	292.4	289.0	286.1	284.1	282.7	281.0
30°	329.1	313.5	301.7	291.4	283.9	279.0	276.8	275.1	272.8	271.9	271.1
32.5°	311.6	297.6	287.5	278.5	271.5	268.2	266.3	264.7	262.9	262.0	260.2
35°	286.9	275.1	265.3	260.3	254.6	251.8	250.3	248.2	246.5	245.6	245.3
37.5°	263.6	253.4	246.9	240.6	238.2	236.5	234.4	233.0	232.4	232.3	232.1
40°	248.5	240.3	234.4	229.3	228.3	225.6	223.9	222.7	222.7	222.9	222.7
42.5°	234.9	227.3	222.3	217.8	216.6	215.1	213.3	213.3	213.6	214.3	213.6
45°	214.1	208.8	205.1	203.0	200.7	199.2	198.9	199.5	199.7	200.0	200.7
47.5°	195.0	191.4	188.1	185.8	184.7	184.5	184.3	185.4	186.4	186.8	187.8
50°	183.7	179.6	176.8	175.3	174.5	174.1	174.5	175.8	176.6	177.7	178.3
52.5°	171.1	168.1	166.3	165.0	164.8	165.0	165.0	166.5	167.9	168.3	168.6
55°	153.5	151.4	151.0	149.0	149.9	149.7	150.7	151.6	152.9	154.2	154.4
57.5°	136.0	134.3	133.2	133.4	133.7	134.6	135.4	137.0	138.3	139.7	139.8
60°	124.4	123.6	122.9	122.9	123.3	124.6	125.6	127.1	128.0	128.9	129.5
62.5°	113.8	112.9	112.3	112.6	113.8	114.5	115.7	116.6	117.4	118.3	118.6
65°	97.0	96.6	97.2	97.6	97.8	98.9	100.4	101.0	101.9	102.4	103.9
67.5°	81.5	81.6	81.5	82.1	83.4	83.6	85.0	86.5	86.7	87.6	88.5
70°	71.1	71.5	71.9	72.4	73.4	73.9	74.9	75.6	76.4	77.1	77.8
72.5°	61.5	61.5	62.0	61.9	62.9	63.7	64.7	65.3	66.2	67.0	67.6
75°	47.3	47.3	47.8	48.0	49.0	50.1	49.9	50.3	51.2	52.0	52.5
77.5°	34.6	34.1	34.6	34.8	35.2	36.0	36.2	36.8	37.8	37.5	38.0
80°	26.3	25.7	26.3	26.6	26.6	27.6	27.6	28.1	28.7	28.1	28.7
82.5°	18.8	18.5	18.9	19.0	19.3	19.4	19.7	19.8	20.5	20.2	20.5
85°	9.4	9.2	9.4	9.2	9.4	9.6	9.6	9.4	9.4	9.8	9.2
87.5°	4.2	4.3	4.7	5.5	5.9	5.8	5.6	5.5	5.3	5.2	5.3
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: P331251-830

CATALOG NUMBER: SA2XXDIP-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: P331251-830

CATALOG NUMBER: SA2XXDIP-C290D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	534.3	534.0	534.0	532.4	534.0	534.0	534.3	536.0	536.6	536.9	536.2
5°	495.7	495.0	494.0	495.0	494.0	495.0	495.7	498.7	500.2	501.6	502.9
7.5°	457.4	454.9	454.5	451.9	454.5	454.9	457.4	458.8	461.8	465.2	468.3
10°	429.5	427.8	427.5	423.5	427.5	427.8	429.5	433.2	436.1	440.2	444.5
12.5°	408.3	404.2	405.0	402.7	405.0	404.2	408.3	408.3	411.8	414.3	421.0
15°	371.5	371.5	370.6	367.0	370.6	371.5	371.5	377.3	378.3	382.4	388.1
17.5°	345.1	344.6	342.6	343.7	342.6	344.6	345.1	349.3	350.1	355.4	360.2
20°	329.3	328.0	325.5	325.5	325.5	328.0	329.3	331.7	334.4	337.6	341.8
22.5°	314.4	314.3	311.6	312.5	311.6	314.3	314.4	316.6	319.2	322.7	326.1
25°	297.0	295.3	294.0	294.6	294.0	295.3	297.0	297.2	300.2	302.6	304.7
27.5°	280.4	279.5	279.4	277.7	279.4	279.5	280.4	281.0	282.7	284.1	286.1
30°	270.9	268.7	269.1	268.1	269.1	268.7	270.9	271.1	271.9	272.8	275.1
32.5°	259.9	259.1	258.7	257.8	258.7	259.1	259.9	260.2	262.0	262.9	264.7
35°	245.0	245.2	244.1	244.5	244.1	245.2	245.0	245.3	245.6	246.5	248.2
37.5°	231.9	232.5	232.1	232.1	232.1	232.5	231.9	232.1	232.3	232.4	233.0
40°	223.3	223.3	223.3	223.9	223.3	223.3	223.3	222.7	222.9	222.7	222.7
42.5°	215.1	214.7	214.4	214.3	214.4	214.7	215.1	213.6	214.3	213.6	213.3
45°	201.0	201.7	201.9	200.9	201.9	201.7	201.0	200.7	200.0	199.7	199.5
47.5°	188.3	188.4	188.3	189.3	188.3	188.4	188.3	187.8	186.8	186.4	185.4
50°	179.5	179.0	179.5	179.0	179.5	179.0	179.5	178.3	177.7	176.6	175.8
52.5°	170.0	170.1	169.8	169.8	169.8	170.1	170.0	168.6	168.3	167.9	166.5
55°	155.2	155.6	155.4	155.4	155.4	155.6	155.2	154.4	154.2	152.9	151.6
57.5°	140.0	140.3	140.6	139.7	140.6	140.3	140.0	139.8	139.7	138.3	137.0
60°	129.3	130.4	130.2	129.8	130.2	130.4	129.3	129.5	128.9	128.0	127.1
62.5°	119.5	120.0	119.9	119.8	119.9	120.0	119.5	118.6	118.3	117.4	116.6
65°	104.5	104.9	104.2	104.9	104.2	104.9	104.5	103.9	102.4	101.9	101.0
67.5°	88.2	88.4	88.9	89.2	88.9	88.4	88.2	88.5	87.6	86.7	86.5
70°	78.1	77.9	78.6	79.3	78.6	77.9	78.1	77.8	77.1	76.4	75.6
72.5°	67.5	68.0	67.8	68.2	67.8	68.0	67.5	67.6	67.0	66.2	65.3
75°	52.0	52.7	52.5	53.1	52.5	52.7	52.0	52.5	52.0	51.2	50.3
77.5°	37.6	37.7	37.6	38.0	37.6	37.7	37.6	38.0	37.5	37.8	36.8
80°	28.7	28.3	27.8	28.7	27.8	28.3	28.7	28.7	28.1	28.7	28.1
82.5°	20.0	20.2	19.8	19.8	19.8	20.2	20.0	20.5	20.2	20.5	19.8
85°	9.2	9.0	8.6	8.6	8.6	9.0	9.2	9.2	9.8	9.4	9.4
87.5°	5.3	5.1	5.1	4.9	5.1	5.1	5.3	5.3	5.2	5.3	5.5
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: P331251-830

CATALOG NUMBER: SA2XXDIP-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: P331251-830

CATALOG NUMBER: SA2XXDIP-C290D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	535.4	537.2	540.2	543.3	545.2	548.7	549.8	551.5	553.0	556.6	560.3
5°	504.4	507.5	514.5	518.4	523.7	529.9	534.0	538.3	543.0	551.1	558.6
7.5°	471.3	476.3	485.1	492.3	499.9	508.8	515.2	523.7	530.7	542.2	553.2
10°	449.2	456.3	464.2	472.8	483.4	492.9	501.9	512.6	521.1	534.9	547.7
12.5°	429.3	430.4	441.8	451.2	465.8	477.5	487.9	501.6	510.0	526.3	539.8
15°	394.6	401.1	411.3	418.8	436.1	450.9	465.5	479.8	489.5	509.6	527.4
17.5°	365.3	371.3	381.8	394.1	406.5	421.2	440.1	455.2	468.3	491.3	512.4
20°	346.9	354.1	364.9	377.5	388.4	404.4	420.8	438.1	452.2	478.2	502.8
22.5°	331.1	336.9	345.5	358.0	369.9	384.6	402.4	421.3	436.1	464.1	489.0
25°	309.0	313.7	319.2	329.5	343.0	359.1	373.0	393.8	415.4	441.5	471.6
27.5°	289.0	292.4	297.3	306.3	316.8	331.8	347.2	366.9	388.7	417.1	448.9
30°	276.8	279.0	283.9	291.4	301.7	313.5	329.1	347.9	370.2	398.9	430.6
32.5°	266.3	268.2	271.5	278.5	287.5	297.6	311.6	330.5	351.7	379.8	415.0
35°	250.3	251.8	254.6	260.3	265.3	275.1	286.9	304.1	324.0	350.9	387.3
37.5°	234.4	236.5	238.2	240.6	246.9	253.4	263.6	278.1	297.7	324.9	359.6
40°	223.9	225.6	228.3	229.3	234.4	240.3	248.5	261.8	281.5	306.4	340.3
42.5°	213.3	215.1	216.6	217.8	222.3	227.3	234.9	246.3	263.7	287.9	321.4
45°	198.9	199.2	200.7	203.0	205.1	208.8	214.1	223.9	237.4	260.1	290.6
47.5°	184.3	184.5	184.7	185.8	188.1	191.4	195.0	203.0	215.1	233.2	262.8
50°	174.5	174.1	174.5	175.3	176.8	179.6	183.7	189.5	199.3	216.2	243.5
52.5°	165.0	165.0	164.8	165.0	166.3	168.1	171.1	176.0	184.7	200.3	224.2
55°	150.7	149.7	149.9	149.0	151.0	151.4	153.5	157.6	165.3	176.0	198.5
57.5°	135.4	134.6	133.7	133.4	133.2	134.3	136.0	139.2	145.2	154.6	172.8
60°	125.6	124.6	123.3	122.9	122.9	123.6	124.4	126.8	132.3	140.6	155.6
62.5°	115.7	114.5	113.8	112.6	112.3	112.9	113.8	115.5	119.5	127.3	140.3
65°	100.4	98.9	97.8	97.6	97.2	96.6	97.0	98.7	101.9	108.1	118.4
67.5°	85.0	83.6	83.4	82.1	81.5	81.6	81.5	82.9	84.9	90.3	97.9
70°	74.9	73.9	73.4	72.4	71.9	71.5	71.1	72.4	74.3	78.8	85.4
72.5°	64.7	63.7	62.9	61.9	62.0	61.5	61.5	62.3	63.8	68.0	73.1
75°	49.9	50.1	49.0	48.0	47.8	47.3	47.3	48.0	48.6	51.8	55.9
77.5°	36.2	36.0	35.2	34.8	34.6	34.1	34.6	35.0	35.3	37.5	40.4
80°	27.6	27.6	26.6	26.6	26.3	25.7	26.3	25.9	26.8	28.9	31.0
82.5°	19.7	19.4	19.3	19.0	18.9	18.5	18.8	19.2	19.6	21.0	22.3
85°	9.6	9.6	9.4	9.2	9.4	9.2	9.4	9.6	9.8	10.5	11.6
87.5°	5.6	5.8	5.9	5.5	4.7	4.3	4.2	4.1	4.2	4.1	3.9
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: P331251-830

CATALOG NUMBER: SA2XXDIP-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: P331251-830

CATALOG NUMBER: SA2XXDIP-C290D530U830-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	560.1	560.9	563.6	566.4	569.5	570.3	571.7	570.5	570.1	573.3	575.8
5°	561.7	565.4	573.0	579.9	585.6	589.7	594.0	595.7	598.9	603.3	609.0
7.5°	559.8	567.3	579.1	589.1	599.9	607.8	613.9	619.2	625.5	634.0	643.3
10°	557.8	567.8	582.2	594.4	607.7	617.7	626.0	634.2	643.7	655.4	667.6
12.5°	554.0	565.9	583.9	598.3	615.4	625.3	636.5	654.0	664.2	680.6	697.8
15°	546.4	559.7	584.8	602.5	621.8	640.6	661.4	678.1	694.7	704.5	728.6
17.5°	535.2	554.6	582.4	603.1	627.6	657.2	680.6	699.6	718.8	734.4	746.6
20°	526.0	547.2	579.0	603.8	632.9	664.8	691.5	710.9	727.5	740.6	748.1
22.5°	514.6	541.3	572.1	601.2	638.4	670.0	698.0	713.2	727.2	733.6	736.5
25°	496.5	528.7	563.5	599.1	641.0	674.5	700.1	709.4	713.4	707.2	696.9
27.5°	477.0	512.8	553.6	595.0	639.4	671.6	689.9	688.5	681.6	661.5	645.5
30°	462.5	501.9	545.7	591.0	635.5	666.8	677.4	666.8	651.1	628.7	605.7
32.5°	447.2	488.0	537.3	585.1	628.3	655.8	658.1	639.7	615.5	589.9	561.4
35°	424.1	468.3	521.6	572.1	613.0	630.4	620.1	587.5	558.8	524.0	484.9
37.5°	398.0	446.8	500.2	553.1	590.1	594.7	569.1	534.9	494.4	453.4	407.5
40°	378.5	430.2	485.2	538.5	571.3	566.6	534.0	496.3	448.2	398.0	355.4
42.5°	361.1	412.6	468.7	521.0	547.2	534.3	496.3	450.1	398.3	351.1	312.1
45°	330.8	383.9	441.3	491.8	506.8	483.4	433.2	381.7	330.8	291.4	260.6
47.5°	301.4	353.9	410.8	455.2	460.4	429.0	374.1	321.2	277.4	245.3	223.6
50°	279.8	332.5	388.8	428.5	426.7	388.8	332.3	282.0	245.3	219.4	204.9
52.5°	260.5	310.3	364.3	400.4	391.2	350.0	296.0	251.3	221.2	201.0	187.8
55°	230.4	276.4	327.8	356.8	340.0	294.2	248.5	212.6	190.3	175.1	164.9
57.5°	200.5	243.6	287.7	305.5	287.0	244.7	206.7	180.6	163.8	152.6	145.9
60°	182.0	219.7	258.8	274.3	252.2	214.5	184.5	161.3	147.7	138.6	132.5
62.5°	163.5	197.3	234.2	242.6	222.4	190.6	164.0	144.6	133.6	125.4	119.7
65°	138.3	166.0	194.0	199.5	181.0	156.3	135.3	122.7	112.8	106.9	102.4
67.5°	113.5	135.6	155.5	159.9	143.6	126.6	111.4	100.4	93.8	88.8	84.9
70°	98.7	116.3	132.5	136.2	123.1	107.9	96.3	87.6	81.5	77.3	73.6
72.5°	83.1	97.7	111.3	113.8	103.1	91.4	82.0	75.0	69.7	67.0	63.5
75°	63.6	72.2	82.7	83.3	76.3	69.2	61.9	57.4	54.6	51.2	49.5
77.5°	44.9	51.6	57.6	58.7	54.6	49.8	45.7	42.1	39.8	38.2	36.6
80°	34.2	39.6	42.2	43.6	40.7	37.2	34.9	32.5	31.0	30.0	28.9
82.5°	24.5	27.8	30.2	31.4	29.7	27.6	25.4	23.9	22.8	22.0	21.6
85°	12.4	13.9	15.5	15.8	15.5	14.5	13.3	13.3	12.6	12.4	12.4
87.5°	4.7	5.8	6.0	6.8	6.8	7.3	8.0	8.5	8.5	8.2	7.9
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: P331251-830

CATALOG NUMBER: SA2XXDIP-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	279.9	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°	557.1	557.1	557.1	557.1	557.1	557.1	557.1
2.5°	577.9	580.2	580.2	580.6	583.3	583.0	582.8
5°	614.9	618.6	619.0	622.8	625.4	624.5	622.2
7.5°	649.9	656.7	661.9	664.7	668.1	670.1	669.2
10°	677.7	687.5	693.5	697.6	702.5	706.2	704.8
12.5°	702.9	714.5	722.8	729.8	730.4	735.1	731.9
15°	742.2	754.5	755.8	760.9	765.1	764.6	764.8
17.5°	755.1	759.0	759.9	760.0	760.1	758.6	755.3
20°	750.5	748.9	745.4	742.5	737.6	737.0	732.7
22.5°	728.5	723.8	714.6	708.6	701.0	699.0	697.8
25°	685.4	674.9	660.3	646.4	642.5	635.1	637.2
27.5°	626.1	609.8	594.0	582.8	572.5	561.3	564.5
30°	584.6	566.1	543.8	526.7	515.8	505.1	503.1
32.5°	534.9	507.8	483.1	468.0	451.2	444.4	437.1
35°	449.2	422.8	398.2	377.0	364.9	355.4	346.9
37.5°	372.2	341.9	322.0	304.8	296.0	290.6	292.0
40°	324.4	297.8	283.2	270.2	262.0	258.3	259.1
42.5°	285.7	265.8	253.8	244.9	239.1	237.0	236.5
45°	241.8	230.6	220.7	215.7	212.8	210.5	209.0
47.5°	211.8	202.6	197.1	194.1	191.6	189.3	189.2
50°	193.8	187.8	183.9	180.7	178.8	177.1	178.6
52.5°	180.0	174.6	170.7	167.9	167.1	165.6	165.5
55°	159.8	155.4	152.7	150.1	148.8	148.0	146.8
57.5°	141.2	137.1	134.6	133.0	130.5	129.7	129.3
60°	128.0	124.8	122.2	120.1	119.0	117.3	117.3
62.5°	115.8	112.6	110.3	108.7	106.9	106.2	106.4
65°	98.3	95.7	93.3	91.6	91.2	89.9	90.4
67.5°	82.1	80.4	77.9	76.9	76.2	75.5	74.9
70°	71.3	69.6	68.3	67.0	66.4	66.4	66.4
72.5°	62.2	60.1	59.4	57.8	58.2	57.5	56.7
75°	48.2	46.8	46.3	45.6	44.6	44.6	44.6
77.5°	35.4	35.1	34.3	33.6	33.4	33.2	33.3
80°	27.4	27.1	26.8	26.8	26.3	26.1	25.7
82.5°	21.1	20.5	20.3	20.1	20.0	20.0	19.9
85°	12.0	11.6	11.6	11.8	11.3	11.3	11.6
87.5°	7.8	8.1	8.0	8.0	8.2	8.0	8.0
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

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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)