

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: P331251-840

Luminaire Tested: **SA2XXDIP-C290D530U840-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331251-840
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-C290D530U840-4F0-1E-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

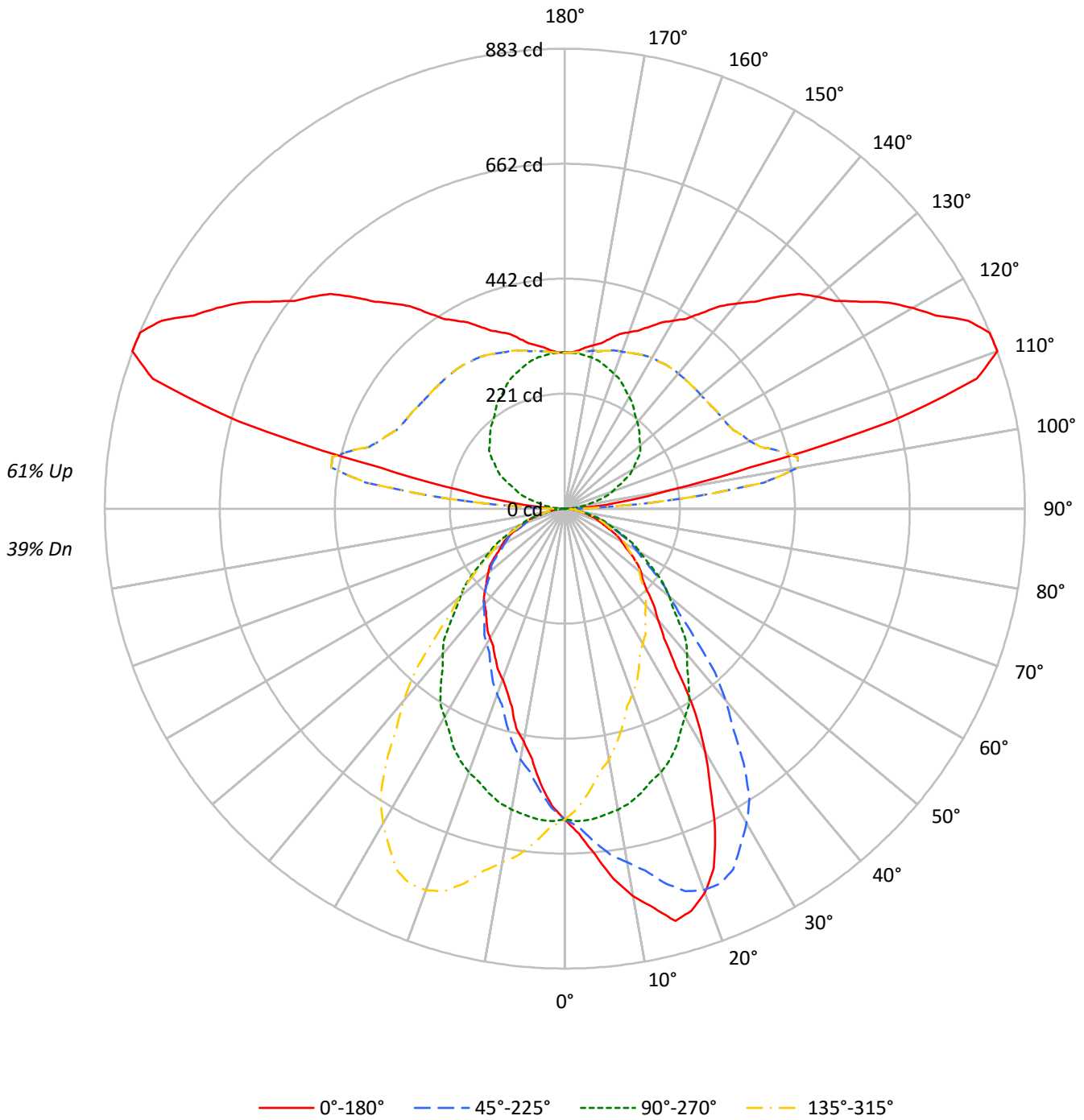
Lumens per Lamp: N/A
Luminaire Lumens: 3403.6 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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				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	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	96	92	88	84	87	83	80	77	68	66	64	54	53	51	41	40	39	33
2	87	80	74	70	79	73	68	64	60	57	53	48	45	43	37	35	34	29
3	80	71	64	58	72	65	59	54	53	49	45	43	40	37	33	31	29	25
4	73	63	55	50	66	58	51	46	48	43	39	38	35	32	29	27	25	21
5	67	56	48	43	61	51	45	40	43	38	34	34	31	28	27	24	22	19
6	62	50	43	37	56	46	40	35	39	33	30	31	27	25	24	22	20	17
7	57	46	38	33	52	42	35	30	35	30	26	28	25	22	22	20	18	15
8	53	41	34	29	48	38	32	27	32	27	23	26	22	20	21	18	16	14
9	50	38	31	26	45	35	28	24	29	24	21	24	20	18	19	16	15	12
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9637	9637	9637	9637
5°	10804	9700	8596	9700
10°	12381	9621	7438	9621
15°	13697	9444	6572	9444
20°	13490	9256	5991	9256
25°	12162	9002	5624	9002
30°	10051	8600	5354	8600
35°	7324	8180	5164	8180
40°	5851	7685	5056	7685
45°	5112	7108	4914	7108
50°	4808	6551	4818	6551
55°	4428	5987	4687	5987
60°	4059	5383	4492	5383
65°	3698	4844	4294	4844
70°	3356	4319	4008	4319
75°	2982	3737	3550	3737
80°	2566	3087	2854	3087
85°	2297	2297	1704	2297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.7
10°-20°	165.3	4.9
20°-30°	239.9	7.0
30°-40°	253.1	7.4
40°-50°	224.1	6.6
50°-60°	178.8	5.3
60°-70°	121.6	3.6
70°-80°	62.3	1.8
80°-90°	17.7	0.5
90°-100°	119.7	3.5
100°-110°	406.3	11.9
110°-120°	431.7	12.7
120°-130°	355.4	10.4
130°-140°	285.4	8.4
140°-150°	215.7	6.3
150°-160°	151.6	4.5
160°-170°	89.2	2.6
170°-180°	29.0	0.9
0°-30°	462.0	13.6
0°-40°	715.1	21.0
0°-60°	1118.0	32.8
0°-90°	1319.6	38.8
90°-120°	957.8	28.1
90°-150°	1814.1	53.3
90°-180°	2084.0	61.2
0°-180°	3403.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	597	597	597	597	597	
5°	667	598	530	598	667	67
15°	819	565	393	565	819	226
25°	683	505	316	505	683	309
35°	372	415	262	415	372	242
45°	224	311	215	311	224	176
55°	157	213	166	213	157	141
65°	97	127	112	127	97	96
75°	48	60	57	60	48	51
85°	12	12	9	12	12	14
90°	19	1	19	1	19	11
95°	66	20	66	20	66	85
105°	649	70	649	70	649	628
115°	854	124	854	124	854	836
125°	693	173	693	173	693	626
135°	574	203	574	203	574	446
145°	458	232	458	232	458	291
155°	385	263	385	263	385	180
165°	338	287	338	287	338	97
175°	305	299	305	299	305	30
180°	299	299	299	299	299	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	624.4	624.6	625.0	622.1	621.7	621.7	619.1	616.9	614.3	610.9	611.3
5°	666.6	669.1	670.0	667.3	663.2	662.8	658.8	652.5	646.4	641.7	638.2
7.5°	717.0	718.0	715.8	712.2	709.1	703.6	696.3	689.2	679.2	670.1	663.4
10°	755.2	756.6	752.7	747.4	743.1	736.6	726.1	715.3	702.3	689.6	679.5
12.5°	784.2	787.6	782.5	781.9	774.5	765.6	753.1	747.6	729.2	711.7	700.7
15°	819.4	819.2	819.7	815.3	809.8	808.4	795.2	780.6	754.8	744.4	726.5
17.5°	809.2	812.7	814.4	814.3	814.2	813.2	809.0	799.9	786.9	770.1	749.5
20°	785.1	789.6	790.3	795.6	798.6	802.4	804.1	801.5	793.6	779.5	761.6
22.5°	747.6	748.9	751.0	759.2	765.7	775.5	780.5	789.1	786.0	779.1	764.2
25°	682.7	680.4	688.4	692.6	707.5	723.1	734.4	746.7	757.7	764.4	760.0
27.5°	604.8	601.4	613.4	624.4	636.4	653.4	670.9	691.6	708.7	730.3	737.7
30°	539.1	541.2	552.6	564.3	582.7	606.5	626.3	648.9	673.6	697.6	714.4
32.5°	468.3	476.2	483.4	501.4	517.6	544.1	573.1	601.5	632.1	659.4	685.4
35°	371.6	380.8	390.9	403.9	426.7	453.0	481.3	519.6	561.4	598.7	629.4
37.5°	312.9	311.3	317.1	326.6	345.0	366.3	398.8	436.6	485.7	529.7	573.1
40°	277.6	276.7	280.7	289.5	303.5	319.1	347.6	380.8	426.5	480.2	531.8
42.5°	253.4	253.9	256.2	262.4	272.0	284.8	306.1	334.4	376.2	426.8	482.2
45°	223.9	225.5	228.0	231.1	236.5	247.1	259.0	279.2	312.3	354.5	409.0
47.5°	202.7	202.8	205.3	207.9	211.2	217.1	226.9	239.5	262.9	297.2	344.2
50°	191.4	189.8	191.6	193.6	197.0	201.2	207.6	219.5	235.1	262.9	302.2
52.5°	177.3	177.4	179.0	179.9	182.9	187.0	192.9	201.2	215.3	237.0	269.2
55°	157.3	158.5	159.5	160.8	163.6	166.5	171.2	176.6	187.6	203.9	227.8
57.5°	138.6	139.0	139.9	142.5	144.2	146.9	151.3	156.3	163.5	175.5	193.5
60°	125.7	125.7	127.5	128.7	131.0	133.7	137.1	142.0	148.5	158.2	172.8
62.5°	114.0	113.8	114.5	116.4	118.2	120.7	124.1	128.3	134.3	143.1	154.9
65°	96.8	96.3	97.8	98.2	100.0	102.5	105.3	109.7	114.5	120.9	131.5
67.5°	80.3	80.9	81.6	82.4	83.4	86.1	88.0	91.0	95.1	100.5	107.6
70°	71.1	71.1	71.1	71.8	73.2	74.5	76.3	78.9	82.8	87.4	93.8
72.5°	60.8	61.6	62.3	61.9	63.6	64.4	66.7	68.1	71.8	74.7	80.4
75°	47.8	47.8	47.8	48.9	49.6	50.2	51.6	53.0	54.8	58.5	61.5
77.5°	35.6	35.5	35.7	36.1	36.8	37.6	38.0	39.2	40.9	42.6	45.1
80°	27.6	28.0	28.2	28.7	28.7	29.1	29.4	31.0	32.1	33.2	34.8
82.5°	21.3	21.4	21.4	21.5	21.7	22.0	22.6	23.1	23.5	24.4	25.7
85°	12.4	12.1	12.1	12.6	12.4	12.4	12.8	13.3	13.3	13.5	14.2
87.5°	8.6	8.6	8.8	8.6	8.6	8.7	8.4	8.5	8.8	9.1	9.1
90°	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4	19.0	19.6	19.0
92.5°	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2	63.2	74.8	73.8
95°	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9	197.5	225.8	199.9
97.5°	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1	404.2	385.4	290.2
100°	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8	537.9	454.9	313.3
102.5°	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6	587.6	457.3	304.6
105°	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7	580.0	426.8	287.4
107.5°	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4	529.4	394.0	278.8
110°	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1	497.6	378.4	277.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0	475.4	368.2	277.5
115°	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1	448.1	357.1	279.9
117.5°	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5	430.8	351.6	284.1
120°	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8	421.6	348.4	286.8
122.5°	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4	413.7	346.6	290.0
125°	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3	402.5	343.3	294.9
127.5°	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5	392.2	341.3	299.8
130°	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0	385.3	340.3	303.5
132.5°	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0	379.7	339.9	307.2
135°	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5	372.0	339.2	311.5
137.5°	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2	366.6	339.1	315.5
140°	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3	363.5	338.6	317.3
142.5°	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8	360.2	338.6	318.7
145°	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8	355.9	337.5	320.2
147.5°	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8	351.5	335.4	320.6
150°	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6	347.9	334.1	320.2
152.5°	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6	344.7	331.7	319.3
155°	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6	338.6	327.7	317.9
157.5°	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4	333.0	323.6	315.3
160°	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3	328.8	320.8	313.9
162.5°	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2	325.2	318.5	312.5
165°	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7	319.0	313.9	309.8
167.5°	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4	313.1	309.8	307.2
170°	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8	309.8	307.5	305.8
172.5°	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6	306.6	304.8	304.0
175°	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1	302.4	301.7	301.2
177.5°	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8	299.9	299.4	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	612.5	611.1	610.2	606.8	603.9	601.0	600.1	600.4	596.3	592.5	590.9
5°	636.4	631.8	627.4	621.3	613.9	605.8	601.8	598.5	590.5	581.8	576.7
7.5°	657.7	651.2	642.8	631.2	620.5	607.8	599.8	592.7	581.0	568.7	561.1
10°	670.8	661.9	651.1	636.8	623.8	608.3	597.6	586.8	573.1	558.4	549.2
12.5°	682.0	669.9	659.3	641.1	625.6	606.3	593.6	578.3	563.9	546.4	537.5
15°	708.6	686.4	666.2	645.5	626.5	599.7	585.4	565.0	546.0	524.4	514.1
17.5°	729.2	704.2	672.5	646.2	624.0	594.2	573.4	549.0	526.4	501.8	487.8
20°	740.9	712.3	678.1	646.9	620.4	586.3	563.6	538.7	512.3	484.5	469.4
22.5°	747.9	717.8	684.0	644.2	613.0	580.0	551.4	523.9	497.3	467.3	451.4
25°	750.1	722.7	686.8	641.9	603.8	566.4	532.0	505.3	473.0	445.0	421.9
27.5°	739.2	719.5	685.1	637.5	593.2	549.5	511.1	481.0	446.9	416.5	393.1
30°	725.8	714.4	680.9	633.2	584.7	537.8	495.5	461.3	427.4	396.7	372.7
32.5°	705.1	702.7	673.2	626.9	575.7	522.9	479.2	444.6	407.0	376.8	354.1
35°	664.4	675.4	656.8	613.0	558.9	501.7	454.4	415.0	376.0	347.1	325.8
37.5°	609.8	637.1	632.3	592.6	535.9	478.7	426.5	385.3	348.1	318.9	298.0
40°	572.1	607.0	612.1	576.9	519.9	460.9	405.6	364.6	328.3	301.6	280.5
42.5°	531.8	572.5	586.3	558.3	502.2	442.1	386.9	344.4	308.4	282.6	263.9
45°	464.1	518.0	543.0	526.9	472.8	411.3	354.5	311.3	278.7	254.4	239.9
47.5°	400.8	459.7	493.3	487.7	440.1	379.2	323.0	281.6	249.8	230.5	217.5
50°	356.1	416.6	457.2	459.1	416.6	356.3	299.8	260.8	231.7	213.6	203.0
52.5°	317.1	375.0	419.2	429.0	390.3	332.4	279.1	240.2	214.6	197.9	188.5
55°	266.3	315.2	364.3	382.2	351.2	296.2	246.8	212.7	188.5	177.1	168.8
57.5°	221.5	262.2	307.5	327.3	308.2	261.1	214.8	185.1	165.6	155.5	149.2
60°	197.7	229.8	270.2	293.9	277.3	235.4	195.0	166.7	150.7	141.8	135.8
62.5°	175.7	204.2	238.3	259.9	251.0	211.4	175.2	150.3	136.4	128.1	123.7
65°	145.0	167.4	193.9	213.8	207.8	177.8	148.1	126.8	115.8	109.2	105.7
67.5°	119.4	135.6	153.9	171.4	166.6	145.3	121.6	104.9	96.7	91.0	88.9
70°	103.2	115.6	131.9	145.9	142.0	124.6	105.7	91.5	84.4	79.6	77.6
72.5°	87.9	98.0	110.5	121.9	119.3	104.7	89.1	78.4	72.8	68.4	66.8
75°	66.3	74.1	81.7	89.3	88.6	77.4	68.2	59.9	55.5	52.1	51.4
77.5°	49.0	53.3	58.5	62.9	61.7	55.2	48.1	43.3	40.2	37.9	37.5
80°	37.4	39.9	43.6	46.8	45.2	42.4	36.7	33.2	31.0	28.7	27.8
82.5°	27.2	29.6	31.8	33.6	32.3	29.8	26.3	23.9	22.5	21.0	20.6
85°	14.2	15.6	16.6	17.0	16.6	14.9	13.3	12.4	11.2	10.5	10.3
87.5°	8.6	7.8	7.3	7.3	6.5	6.3	5.0	4.1	4.3	4.5	4.4
90°	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6	2.3	4.6	5.8
92.5°	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1	10.1	14.2	16.9
95°	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2	22.4	28.2	33.4
97.5°	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8	36.0	42.0	49.9
100°	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3	46.0	51.3	60.5
102.5°	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9	56.2	61.4	70.6
105°	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3	72.6	76.5	85.2
107.5°	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8	88.7	92.6	100.6
110°	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9	100.2	103.7	111.2



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1	110.4	114.2	121.3
115°	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8	126.7	130.2	137.0
117.5°	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2	142.5	145.9	152.1
120°	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3	152.6	156.0	161.3
122.5°	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0	161.9	165.3	171.0
125°	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8	174.5	177.9	184.9
127.5°	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9	185.2	190.1	197.6
130°	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9	191.2	196.9	205.0
132.5°	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4	197.2	203.4	212.0
135°	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7	205.0	212.0	220.6
137.5°	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6	213.3	220.3	229.4
140°	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5	218.8	225.8	235.0
142.5°	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6	224.4	230.9	240.0
145°	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6	233.8	239.5	248.2
147.5°	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2	242.9	248.4	256.4
150°	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6	249.3	254.0	261.5
152.5°	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1	254.9	259.5	266.1
155°	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2	263.8	267.2	273.6
157.5°	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7	271.4	274.2	279.6
160°	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9	276.4	278.7	283.4
162.5°	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9	280.5	282.9	286.6
165°	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8	286.2	287.4	290.8
167.5°	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6	290.9	292.0	294.2
170°	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9	293.7	294.3	296.0
172.5°	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7	296.0	295.7	297.4
175°	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9	298.3	297.7	298.9
177.5°	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9	299.0	298.5	299.4
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	589.1	587.9	584.1	582.1	578.8	575.6	573.6	574.5	575.2	574.9	574.3
5°	572.1	567.7	561.1	555.4	551.3	543.7	540.5	538.9	537.5	535.9	534.3
7.5°	552.0	545.1	535.6	527.5	519.8	510.3	504.9	501.8	498.5	494.8	491.6
10°	537.8	528.1	518.0	506.5	497.4	488.9	481.3	476.3	471.6	467.3	464.1
12.5°	522.7	511.6	499.1	483.4	473.3	461.1	460.0	451.1	443.9	441.2	437.5
15°	498.8	483.1	467.3	448.7	440.7	429.7	422.8	415.9	409.7	405.4	404.2
17.5°	471.5	451.3	435.6	422.2	409.1	397.8	391.4	386.0	380.8	375.1	374.3
20°	450.8	433.3	416.2	404.5	390.9	379.4	371.6	366.2	361.7	358.3	355.4
22.5°	431.1	412.0	396.3	383.5	370.2	360.9	354.8	349.4	345.8	342.0	339.2
25°	399.6	384.8	367.5	353.0	342.0	336.1	331.0	326.5	324.2	321.6	318.4
27.5°	372.0	355.5	339.4	328.2	318.5	313.3	309.6	306.5	304.4	302.9	301.0
30°	352.6	335.9	323.3	312.3	304.2	298.9	296.6	294.8	292.3	291.3	290.4
32.5°	333.9	318.8	308.0	298.4	290.8	287.3	285.3	283.6	281.7	280.7	278.8
35°	307.4	294.8	284.3	278.9	272.8	269.7	268.2	265.9	264.1	263.2	262.9
37.5°	282.5	271.6	264.6	257.8	255.2	253.4	251.2	249.6	249.0	248.9	248.6
40°	266.3	257.4	251.2	245.7	244.6	241.8	239.9	238.6	238.6	238.8	238.6
42.5°	251.7	243.6	238.1	233.4	232.1	230.5	228.5	228.5	228.8	229.6	228.8
45°	229.4	223.7	219.7	217.5	215.0	213.4	213.1	213.8	214.0	214.3	215.0
47.5°	208.9	205.1	201.6	199.0	197.9	197.7	197.4	198.6	199.8	200.2	201.2
50°	196.8	192.5	189.5	187.8	186.9	186.5	186.9	188.3	189.2	190.4	191.1
52.5°	183.3	180.2	178.1	176.8	176.5	176.8	176.8	178.4	179.9	180.4	180.7
55°	164.5	162.2	161.8	159.7	160.6	160.4	161.5	162.4	163.8	165.2	165.4
57.5°	145.7	143.9	142.7	142.9	143.2	144.2	145.1	146.7	148.1	149.7	149.8
60°	133.3	132.4	131.7	131.7	132.1	133.5	134.6	136.2	137.1	138.1	138.8
62.5°	121.9	121.0	120.3	120.7	121.9	122.7	124.0	124.9	125.8	126.7	127.0
65°	103.9	103.5	104.1	104.6	104.8	105.9	107.6	108.3	109.2	109.7	111.3
67.5°	87.4	87.5	87.4	88.0	89.4	89.6	91.1	92.7	92.9	93.8	94.8
70°	76.1	76.6	77.1	77.6	78.7	79.2	80.3	81.0	81.9	82.6	83.3
72.5°	65.8	65.9	66.4	66.3	67.4	68.3	69.3	70.0	70.9	71.8	72.4
75°	50.7	50.7	51.2	51.4	52.5	53.7	53.4	53.9	54.8	55.7	56.2
77.5°	37.1	36.6	37.1	37.3	37.7	38.6	38.8	39.4	40.5	40.2	40.7
80°	28.2	27.6	28.2	28.5	28.5	29.6	29.6	30.1	30.7	30.1	30.7
82.5°	20.1	19.8	20.3	20.4	20.7	20.8	21.1	21.2	21.9	21.6	21.9
85°	10.1	9.9	10.1	9.9	10.1	10.3	10.3	10.1	10.1	10.5	9.9
87.5°	4.5	4.6	5.0	5.9	6.4	6.3	6.0	5.9	5.7	5.6	5.7
90°	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4	17.3	18.4	19.0
92.5°	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2	43.1	38.3	34.6
95°	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9	115.7	91.6	78.9
97.5°	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1	288.1	225.8	184.2
100°	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8	454.4	375.5	305.8
102.5°	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6	623.5	565.8	491.9
105°	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7	764.8	772.3	753.3
107.5°	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4	754.5	814.4	842.2
110°	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1	722.2	795.9	843.1



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0	684.0	762.8	816.9
115°	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1	631.8	707.2	766.6
117.5°	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5	589.4	657.8	713.5
120°	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8	567.2	628.3	680.8
122.5°	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4	548.9	606.6	654.0
125°	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3	524.6	575.3	618.5
127.5°	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5	501.2	549.0	588.9
130°	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0	485.5	531.0	569.0
132.5°	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0	470.8	512.6	548.3
135°	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5	447.5	485.5	517.8
137.5°	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2	429.0	459.1	487.3
140°	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3	417.0	443.4	468.8
142.5°	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8	406.4	429.2	450.4
145°	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8	392.7	410.6	427.4
147.5°	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8	381.7	395.7	407.9
150°	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6	374.4	386.5	396.8
152.5°	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6	368.4	378.6	387.6
155°	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6	358.8	367.4	373.8
157.5°	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4	349.1	356.4	361.3
160°	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3	342.6	349.0	353.0
162.5°	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2	336.7	342.1	345.2
165°	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7	327.7	331.7	334.1
167.5°	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4	319.5	322.2	324.4
170°	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8	314.5	316.8	317.9
172.5°	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6	309.8	311.6	312.4
175°	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1	304.7	305.3	305.8
177.5°	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8	300.8	301.3	301.3
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	572.5	572.1	572.1	570.5	572.1	572.1	572.5	574.3	574.9	575.2	574.5
5°	531.1	530.4	529.3	530.4	529.3	530.4	531.1	534.3	535.9	537.5	538.9
7.5°	490.1	487.4	487.0	484.2	487.0	487.4	490.1	491.6	494.8	498.5	501.8
10°	460.2	458.4	458.1	453.7	458.1	458.4	460.2	464.1	467.3	471.6	476.3
12.5°	437.5	433.0	433.9	431.4	433.9	433.0	437.5	437.5	441.2	443.9	451.1
15°	398.0	398.0	397.1	393.2	397.1	398.0	398.0	404.2	405.4	409.7	415.9
17.5°	369.7	369.2	367.1	368.2	367.1	369.2	369.7	374.3	375.1	380.8	386.0
20°	352.8	351.4	348.7	348.7	348.7	351.4	352.8	355.4	358.3	361.7	366.2
22.5°	336.9	336.8	333.9	334.8	333.9	336.8	336.9	339.2	342.0	345.8	349.4
25°	318.2	316.4	315.0	315.7	315.0	316.4	318.2	318.4	321.6	324.2	326.5
27.5°	300.4	299.4	299.3	297.5	299.3	299.4	300.4	301.0	302.9	304.4	306.5
30°	290.2	287.9	288.3	287.2	288.3	287.9	290.2	290.4	291.3	292.3	294.8
32.5°	278.4	277.6	277.2	276.2	277.2	277.6	278.4	278.8	280.7	281.7	283.6
35°	262.5	262.7	261.6	262.0	261.6	262.7	262.5	262.9	263.2	264.1	265.9
37.5°	248.4	249.1	248.6	248.7	248.6	249.1	248.4	248.6	248.9	249.0	249.6
40°	239.2	239.2	239.2	239.9	239.2	239.2	239.2	238.6	238.8	238.6	238.6
42.5°	230.5	230.0	229.7	229.6	229.7	230.0	230.5	228.8	229.6	228.8	228.5
45°	215.4	216.1	216.3	215.2	216.3	216.1	215.4	215.0	214.3	214.0	213.8
47.5°	201.8	201.9	201.8	202.8	201.8	201.9	201.8	201.2	200.2	199.8	198.6
50°	192.3	191.8	192.3	191.8	192.3	191.8	192.3	191.1	190.4	189.2	188.3
52.5°	182.2	182.3	182.0	181.9	182.0	182.3	182.2	180.7	180.4	179.9	178.4
55°	166.3	166.7	166.5	166.5	166.5	166.7	166.3	165.4	165.2	163.8	162.4
57.5°	150.0	150.4	150.7	149.7	150.7	150.4	150.0	149.8	149.7	148.1	146.7
60°	138.6	139.7	139.5	139.1	139.5	139.7	138.6	138.8	138.1	137.1	136.2
62.5°	128.1	128.6	128.5	128.4	128.5	128.6	128.1	127.0	126.7	125.8	124.9
65°	112.0	112.4	111.7	112.4	111.7	112.4	112.0	111.3	109.7	109.2	108.3
67.5°	94.5	94.7	95.2	95.5	95.2	94.7	94.5	94.8	93.8	92.9	92.7
70°	83.7	83.5	84.2	84.9	84.2	83.5	83.7	83.3	82.6	81.9	81.0
72.5°	72.3	72.8	72.6	73.1	72.6	72.8	72.3	72.4	71.8	70.9	70.0
75°	55.7	56.5	56.2	56.9	56.2	56.5	55.7	56.2	55.7	54.8	53.9
77.5°	40.3	40.4	40.3	40.7	40.3	40.4	40.3	40.7	40.2	40.5	39.4
80°	30.7	30.3	29.8	30.7	29.8	30.3	30.7	30.7	30.1	30.7	30.1
82.5°	21.4	21.6	21.2	21.2	21.2	21.6	21.4	21.9	21.6	21.9	21.2
85°	9.9	9.6	9.2	9.2	9.2	9.6	9.9	9.9	10.5	10.1	10.1
87.5°	5.7	5.5	5.5	5.3	5.5	5.5	5.7	5.7	5.6	5.7	5.9
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.4	17.3	18.4
92.5°	34.2	32.4	32.8	31.9	32.8	32.4	34.2	34.6	38.3	43.1	50.2
95°	71.4	66.9	65.0	65.6	65.0	66.9	71.4	78.9	91.6	115.7	150.9
97.5°	156.6	142.5	134.1	129.3	134.1	142.5	156.6	184.2	225.8	288.1	352.1
100°	258.0	233.3	216.5	206.2	216.5	233.3	258.0	305.8	375.5	454.4	525.8
102.5°	440.0	397.7	376.9	362.8	376.9	397.7	440.0	491.9	565.8	623.5	639.6
105°	717.6	681.9	657.1	649.0	657.1	681.9	717.6	753.3	772.3	764.8	699.7
107.5°	846.7	844.8	839.8	829.1	839.8	844.8	846.7	842.2	814.4	754.5	656.4
110°	867.9	878.9	884.0	883.4	884.0	878.9	867.9	843.1	795.9	722.2	619.1



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	851.3	869.6	879.4	882.5	879.4	869.6	851.3	816.9	762.8	684.0	585.0
115°	807.4	833.9	848.9	854.0	848.9	833.9	807.4	766.6	707.2	631.8	543.1
117.5°	755.2	783.2	798.9	803.2	798.9	783.2	755.2	713.5	657.8	589.4	511.5
120°	721.0	748.1	764.8	770.5	764.8	748.1	721.0	680.8	628.3	567.2	495.8
122.5°	690.1	716.8	731.6	736.5	731.6	716.8	690.1	654.0	606.6	548.9	483.4
125°	652.0	673.8	688.2	692.9	688.2	673.8	652.0	618.5	575.3	524.6	465.3
127.5°	617.9	638.4	650.9	654.6	650.9	638.4	617.9	588.9	549.0	501.2	447.5
130°	597.2	616.8	628.3	632.9	628.3	616.8	597.2	569.0	531.0	485.5	436.0
132.5°	576.0	595.6	606.2	610.4	606.2	595.6	576.0	548.3	512.6	470.8	425.0
135°	542.5	561.5	571.9	574.2	571.9	561.5	542.5	517.8	485.5	447.5	409.5
137.5°	509.8	526.1	535.2	538.7	535.2	526.1	509.8	487.3	459.1	429.0	397.2
140°	487.3	502.2	510.8	514.3	510.8	502.2	487.3	468.8	443.4	417.0	389.3
142.5°	467.9	481.5	489.2	489.9	489.2	481.5	467.9	450.4	429.2	406.4	382.8
145°	441.1	450.9	456.7	458.4	456.7	450.9	441.1	427.4	410.6	392.7	373.8
147.5°	419.3	427.1	431.0	432.0	431.0	427.1	419.3	407.9	395.7	381.7	366.8
150°	405.5	412.3	415.8	416.4	415.8	412.3	405.5	396.8	386.5	374.4	361.6
152.5°	394.4	400.4	402.9	403.0	402.9	400.4	394.4	387.6	378.6	368.4	356.6
155°	380.1	384.2	386.5	385.3	386.5	384.2	380.1	373.8	367.4	358.8	349.6
157.5°	365.8	369.2	370.2	370.2	370.2	369.2	365.8	361.3	356.4	349.1	341.4
160°	357.1	359.9	360.5	360.5	360.5	359.9	357.1	353.0	349.0	342.6	336.3
162.5°	349.2	351.2	351.7	351.3	351.7	351.2	349.2	345.2	342.1	336.7	331.2
165°	336.3	338.6	338.6	338.1	338.6	338.6	336.3	334.1	331.7	327.7	323.7
167.5°	325.4	326.7	326.6	325.9	326.6	326.7	325.4	324.4	322.2	319.5	316.4
170°	318.5	320.2	319.6	318.5	319.6	320.2	318.5	317.9	316.8	314.5	312.8
172.5°	313.0	313.8	313.2	312.5	313.2	313.8	313.0	312.4	311.6	309.8	308.6
175°	305.8	306.4	305.8	304.7	305.8	306.4	305.8	305.8	305.3	304.7	304.1
177.5°	301.3	301.3	300.8	299.9	300.8	301.3	301.3	301.3	301.3	300.8	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	573.6	575.6	578.8	582.1	584.1	587.9	589.1	590.9	592.5	596.3	600.4
5°	540.5	543.7	551.3	555.4	561.1	567.7	572.1	576.7	581.8	590.5	598.5
7.5°	504.9	510.3	519.8	527.5	535.6	545.1	552.0	561.1	568.7	581.0	592.7
10°	481.3	488.9	497.4	506.5	518.0	528.1	537.8	549.2	558.4	573.1	586.8
12.5°	460.0	461.1	473.3	483.4	499.1	511.6	522.7	537.5	546.4	563.9	578.3
15°	422.8	429.7	440.7	448.7	467.3	483.1	498.8	514.1	524.4	546.0	565.0
17.5°	391.4	397.8	409.1	422.2	435.6	451.3	471.5	487.8	501.8	526.4	549.0
20°	371.6	379.4	390.9	404.5	416.2	433.3	450.8	469.4	484.5	512.3	538.7
22.5°	354.8	360.9	370.2	383.5	396.3	412.0	431.1	451.4	467.3	497.3	523.9
25°	331.0	336.1	342.0	353.0	367.5	384.8	399.6	421.9	445.0	473.0	505.3
27.5°	309.6	313.3	318.5	328.2	339.4	355.5	372.0	393.1	416.5	446.9	481.0
30°	296.6	298.9	304.2	312.3	323.3	335.9	352.6	372.7	396.7	427.4	461.3
32.5°	285.3	287.3	290.8	298.4	308.0	318.8	333.9	354.1	376.8	407.0	444.6
35°	268.2	269.7	272.8	278.9	284.3	294.8	307.4	325.8	347.1	376.0	415.0
37.5°	251.2	253.4	255.2	257.8	264.6	271.6	282.5	298.0	318.9	348.1	385.3
40°	239.9	241.8	244.6	245.7	251.2	257.4	266.3	280.5	301.6	328.3	364.6
42.5°	228.5	230.5	232.1	233.4	238.1	243.6	251.7	263.9	282.6	308.4	344.4
45°	213.1	213.4	215.0	217.5	219.7	223.7	229.4	239.9	254.4	278.7	311.3
47.5°	197.4	197.7	197.9	199.0	201.6	205.1	208.9	217.5	230.5	249.8	281.6
50°	186.9	186.5	186.9	187.8	189.5	192.5	196.8	203.0	213.6	231.7	260.8
52.5°	176.8	176.8	176.5	176.8	178.1	180.2	183.3	188.5	197.9	214.6	240.2
55°	161.5	160.4	160.6	159.7	161.8	162.2	164.5	168.8	177.1	188.5	212.7
57.5°	145.1	144.2	143.2	142.9	142.7	143.9	145.7	149.2	155.5	165.6	185.1
60°	134.6	133.5	132.1	131.7	131.7	132.4	133.3	135.8	141.8	150.7	166.7
62.5°	124.0	122.7	121.9	120.7	120.3	121.0	121.9	123.7	128.1	136.4	150.3
65°	107.6	105.9	104.8	104.6	104.1	103.5	103.9	105.7	109.2	115.8	126.8
67.5°	91.1	89.6	89.4	88.0	87.4	87.5	87.4	88.9	91.0	96.7	104.9
70°	80.3	79.2	78.7	77.6	77.1	76.6	76.1	77.6	79.6	84.4	91.5
72.5°	69.3	68.3	67.4	66.3	66.4	65.9	65.8	66.8	68.4	72.8	78.4
75°	53.4	53.7	52.5	51.4	51.2	50.7	50.7	51.4	52.1	55.5	59.9
77.5°	38.8	38.6	37.7	37.3	37.1	36.6	37.1	37.5	37.9	40.2	43.3
80°	29.6	29.6	28.5	28.5	28.2	27.6	28.2	27.8	28.7	31.0	33.2
82.5°	21.1	20.8	20.7	20.4	20.3	19.8	20.1	20.6	21.0	22.5	23.9
85°	10.3	10.3	10.1	9.9	10.1	9.9	10.1	10.3	10.5	11.2	12.4
87.5°	6.0	6.3	6.4	5.9	5.0	4.6	4.5	4.4	4.5	4.3	4.1
90°	19.0	19.6	19.0	15.6	11.5	8.7	6.9	5.8	4.6	2.3	0.6
92.5°	63.2	74.8	73.8	57.5	39.2	26.2	20.7	16.9	14.2	10.1	7.1
95°	197.5	225.8	199.9	133.0	82.9	56.5	42.6	33.4	28.2	22.4	20.2
97.5°	404.2	385.4	290.2	179.3	109.5	76.1	60.5	49.9	42.0	36.0	32.8
100°	537.9	454.9	313.3	188.9	118.7	88.2	72.0	60.5	51.3	46.0	44.3
102.5°	587.6	457.3	304.6	189.3	126.9	98.7	82.6	70.6	61.4	56.2	54.9
105°	580.0	426.8	287.4	192.4	141.1	114.0	97.9	85.2	76.5	72.6	70.3
107.5°	529.4	394.0	278.8	200.3	155.6	129.4	113.1	100.6	92.6	88.7	86.8
110°	497.6	378.4	277.0	206.7	165.3	140.0	123.2	111.2	103.7	100.2	97.9



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	475.4	368.2	277.5	213.7	174.5	150.1	132.9	121.3	114.2	110.4	108.1
115°	448.1	357.1	279.9	224.0	188.9	164.1	148.6	137.0	130.2	126.7	123.8
117.5°	430.8	351.6	284.1	235.1	202.2	179.3	163.1	152.1	145.9	142.5	140.2
120°	421.6	348.4	286.8	242.5	211.4	188.9	172.8	161.3	156.0	152.6	150.3
122.5°	413.7	346.6	290.0	248.9	220.2	199.0	182.5	171.0	165.3	161.9	160.0
125°	402.5	343.3	294.9	259.1	233.3	212.5	196.4	184.9	177.9	174.5	172.8
127.5°	392.2	341.3	299.8	268.7	245.5	225.3	208.7	197.6	190.1	185.2	182.9
130°	385.3	340.3	303.5	274.7	252.9	232.7	216.5	205.0	196.9	191.2	188.9
132.5°	379.7	339.9	307.2	280.7	259.2	240.0	223.9	212.0	203.4	197.2	194.4
135°	372.0	339.2	311.5	288.5	268.4	249.9	233.8	220.6	212.0	205.0	202.7
137.5°	366.6	339.1	315.5	294.5	275.8	257.5	242.6	229.4	220.3	213.3	210.6
140°	363.5	338.6	317.3	297.7	279.9	262.7	247.6	235.0	225.8	218.8	216.5
142.5°	360.2	338.6	318.7	300.5	283.2	266.3	252.3	240.0	230.9	224.4	222.6
145°	355.9	337.5	320.2	304.1	287.9	272.4	259.7	248.2	239.5	233.8	231.6
147.5°	351.5	335.4	320.6	306.1	291.9	277.2	266.0	256.4	248.4	242.9	241.2
150°	347.9	334.1	320.2	307.0	293.7	280.4	270.1	261.5	254.0	249.3	247.6
152.5°	344.7	331.7	319.3	307.4	295.6	283.7	274.3	266.1	259.5	254.9	254.1
155°	338.6	327.7	317.9	308.1	298.3	288.5	279.9	273.6	267.2	263.8	263.2
157.5°	333.0	323.6	315.3	308.1	300.2	292.0	284.8	279.6	274.2	271.4	270.7
160°	328.8	320.8	313.9	308.1	301.2	294.3	287.9	283.4	278.7	276.4	275.9
162.5°	325.2	318.5	312.5	307.6	301.6	295.7	290.7	286.6	282.9	280.5	280.9
165°	319.0	313.9	309.8	306.4	302.4	297.2	293.7	290.8	287.4	286.2	286.8
167.5°	313.1	309.8	307.2	305.6	302.3	298.4	296.3	294.2	292.0	290.9	291.6
170°	309.8	307.5	305.8	304.7	301.7	298.9	297.2	296.0	294.3	293.7	294.9
172.5°	306.6	304.8	304.0	303.3	301.3	299.3	298.1	297.4	295.7	296.0	296.7
175°	302.4	301.7	301.2	301.7	300.6	299.4	298.9	298.9	297.7	298.3	298.9
177.5°	299.9	299.4	299.9	300.8	299.9	299.4	299.4	299.4	298.5	299.0	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	600.1	601.0	603.9	606.8	610.2	611.1	612.5	611.3	610.9	614.3	616.9
5°	601.8	605.8	613.9	621.3	627.4	631.8	636.4	638.2	641.7	646.4	652.5
7.5°	599.8	607.8	620.5	631.2	642.8	651.2	657.7	663.4	670.1	679.2	689.2
10°	597.6	608.3	623.8	636.8	651.1	661.9	670.8	679.5	689.6	702.3	715.3
12.5°	593.6	606.3	625.6	641.1	659.3	669.9	682.0	700.7	711.7	729.2	747.6
15°	585.4	599.7	626.5	645.5	666.2	686.4	708.6	726.5	744.4	754.8	780.6
17.5°	573.4	594.2	624.0	646.2	672.5	704.2	729.2	749.5	770.1	786.9	799.9
20°	563.6	586.3	620.4	646.9	678.1	712.3	740.9	761.6	779.5	793.6	801.5
22.5°	551.4	580.0	613.0	644.2	684.0	717.8	747.9	764.2	779.1	786.0	789.1
25°	532.0	566.4	603.8	641.9	686.8	722.7	750.1	760.0	764.4	757.7	746.7
27.5°	511.1	549.5	593.2	637.5	685.1	719.5	739.2	737.7	730.3	708.7	691.6
30°	495.5	537.8	584.7	633.2	680.9	714.4	725.8	714.4	697.6	673.6	648.9
32.5°	479.2	522.9	575.7	626.9	673.2	702.7	705.1	685.4	659.4	632.1	601.5
35°	454.4	501.7	558.9	613.0	656.8	675.4	664.4	629.4	598.7	561.4	519.6
37.5°	426.5	478.7	535.9	592.6	632.3	637.1	609.8	573.1	529.7	485.7	436.6
40°	405.6	460.9	519.9	576.9	612.1	607.0	572.1	531.8	480.2	426.5	380.8
42.5°	386.9	442.1	502.2	558.3	586.3	572.5	531.8	482.2	426.8	376.2	334.4
45°	354.5	411.3	472.8	526.9	543.0	518.0	464.1	409.0	354.5	312.3	279.2
47.5°	323.0	379.2	440.1	487.7	493.3	459.7	400.8	344.2	297.2	262.9	239.5
50°	299.8	356.3	416.6	459.1	457.2	416.6	356.1	302.2	262.9	235.1	219.5
52.5°	279.1	332.4	390.3	429.0	419.2	375.0	317.1	269.2	237.0	215.3	201.2
55°	246.8	296.2	351.2	382.2	364.3	315.2	266.3	227.8	203.9	187.6	176.6
57.5°	214.8	261.1	308.2	327.3	307.5	262.2	221.5	193.5	175.5	163.5	156.3
60°	195.0	235.4	277.3	293.9	270.2	229.8	197.7	172.8	158.2	148.5	142.0
62.5°	175.2	211.4	251.0	259.9	238.3	204.2	175.7	154.9	143.1	134.3	128.3
65°	148.1	177.8	207.8	213.8	193.9	167.4	145.0	131.5	120.9	114.5	109.7
67.5°	121.6	145.3	166.6	171.4	153.9	135.6	119.4	107.6	100.5	95.1	91.0
70°	105.7	124.6	142.0	145.9	131.9	115.6	103.2	93.8	87.4	82.8	78.9
72.5°	89.1	104.7	119.3	121.9	110.5	98.0	87.9	80.4	74.7	71.8	68.1
75°	68.2	77.4	88.6	89.3	81.7	74.1	66.3	61.5	58.5	54.8	53.0
77.5°	48.1	55.2	61.7	62.9	58.5	53.3	49.0	45.1	42.6	40.9	39.2
80°	36.7	42.4	45.2	46.8	43.6	39.9	37.4	34.8	33.2	32.1	31.0
82.5°	26.3	29.8	32.3	33.6	31.8	29.6	27.2	25.7	24.4	23.5	23.1
85°	13.3	14.9	16.6	17.0	16.6	15.6	14.2	14.2	13.5	13.3	13.3
87.5°	5.0	6.3	6.5	7.3	7.3	7.8	8.6	9.1	9.1	8.8	8.5
90°	2.3	4.6	5.8	6.9	8.7	11.5	15.6	19.0	19.6	19.0	18.4
92.5°	10.1	14.2	16.9	20.7	26.2	39.2	57.5	73.8	74.8	63.2	50.2
95°	22.4	28.2	33.4	42.6	56.5	82.9	133.0	199.9	225.8	197.5	150.9
97.5°	36.0	42.0	49.9	60.5	76.1	109.5	179.3	290.2	385.4	404.2	352.1
100°	46.0	51.3	60.5	72.0	88.2	118.7	188.9	313.3	454.9	537.9	525.8
102.5°	56.2	61.4	70.6	82.6	98.7	126.9	189.3	304.6	457.3	587.6	639.6
105°	72.6	76.5	85.2	97.9	114.0	141.1	192.4	287.4	426.8	580.0	699.7
107.5°	88.7	92.6	100.6	113.1	129.4	155.6	200.3	278.8	394.0	529.4	656.4
110°	100.2	103.7	111.2	123.2	140.0	165.3	206.7	277.0	378.4	497.6	619.1



TEST NUMBER: P331251-840

CATALOG NUMBER: SA2XXDIP-C290D530U840-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	110.4	114.2	121.3	132.9	150.1	174.5	213.7	277.5	368.2	475.4	585.0
115°	126.7	130.2	137.0	148.6	164.1	188.9	224.0	279.9	357.1	448.1	543.1
117.5°	142.5	145.9	152.1	163.1	179.3	202.2	235.1	284.1	351.6	430.8	511.5
120°	152.6	156.0	161.3	172.8	188.9	211.4	242.5	286.8	348.4	421.6	495.8
122.5°	161.9	165.3	171.0	182.5	199.0	220.2	248.9	290.0	346.6	413.7	483.4
125°	174.5	177.9	184.9	196.4	212.5	233.3	259.1	294.9	343.3	402.5	465.3
127.5°	185.2	190.1	197.6	208.7	225.3	245.5	268.7	299.8	341.3	392.2	447.5
130°	191.2	196.9	205.0	216.5	232.7	252.9	274.7	303.5	340.3	385.3	436.0
132.5°	197.2	203.4	212.0	223.9	240.0	259.2	280.7	307.2	339.9	379.7	425.0
135°	205.0	212.0	220.6	233.8	249.9	268.4	288.5	311.5	339.2	372.0	409.5
137.5°	213.3	220.3	229.4	242.6	257.5	275.8	294.5	315.5	339.1	366.6	397.2
140°	218.8	225.8	235.0	247.6	262.7	279.9	297.7	317.3	338.6	363.5	389.3
142.5°	224.4	230.9	240.0	252.3	266.3	283.2	300.5	318.7	338.6	360.2	382.8
145°	233.8	239.5	248.2	259.7	272.4	287.9	304.1	320.2	337.5	355.9	373.8
147.5°	242.9	248.4	256.4	266.0	277.2	291.9	306.1	320.6	335.4	351.5	366.8
150°	249.3	254.0	261.5	270.1	280.4	293.7	307.0	320.2	334.1	347.9	361.6
152.5°	254.9	259.5	266.1	274.3	283.7	295.6	307.4	319.3	331.7	344.7	356.6
155°	263.8	267.2	273.6	279.9	288.5	298.3	308.1	317.9	327.7	338.6	349.6
157.5°	271.4	274.2	279.6	284.8	292.0	300.2	308.1	315.3	323.6	333.0	341.4
160°	276.4	278.7	283.4	287.9	294.3	301.2	308.1	313.9	320.8	328.8	336.3
162.5°	280.5	282.9	286.6	290.7	295.7	301.6	307.6	312.5	318.5	325.2	331.2
165°	286.2	287.4	290.8	293.7	297.2	302.4	306.4	309.8	313.9	319.0	323.7
167.5°	290.9	292.0	294.2	296.3	298.4	302.3	305.6	307.2	309.8	313.1	316.4
170°	293.7	294.3	296.0	297.2	298.9	301.7	304.7	305.8	307.5	309.8	312.8
172.5°	296.0	295.7	297.4	298.1	299.3	301.3	303.3	304.0	304.8	306.6	308.6
175°	298.3	297.7	298.9	298.9	299.4	300.6	301.7	301.2	301.7	302.4	304.1
177.5°	299.0	298.5	299.4	299.4	299.4	299.9	300.8	299.9	299.4	299.9	300.8
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	596.9	596.9	596.9	596.9	596.9	596.9	596.9
2.5°	619.1	621.7	621.7	622.1	625.0	624.6	624.4
5°	658.8	662.8	663.2	667.3	670.0	669.1	666.6
7.5°	696.3	703.6	709.1	712.2	715.8	718.0	717.0
10°	726.1	736.6	743.1	747.4	752.7	756.6	755.2
12.5°	753.1	765.6	774.5	781.9	782.5	787.6	784.2
15°	795.2	808.4	809.8	815.3	819.7	819.2	819.4
17.5°	809.0	813.2	814.2	814.3	814.4	812.7	809.2
20°	804.1	802.4	798.6	795.6	790.3	789.6	785.1
22.5°	780.5	775.5	765.7	759.2	751.0	748.9	747.6
25°	734.4	723.1	707.5	692.6	688.4	680.4	682.7
27.5°	670.9	653.4	636.4	624.4	613.4	601.4	604.8
30°	626.3	606.5	582.7	564.3	552.6	541.2	539.1
32.5°	573.1	544.1	517.6	501.4	483.4	476.2	468.3
35°	481.3	453.0	426.7	403.9	390.9	380.8	371.6
37.5°	398.8	366.3	345.0	326.6	317.1	311.3	312.9
40°	347.6	319.1	303.5	289.5	280.7	276.7	277.6
42.5°	306.1	284.8	272.0	262.4	256.2	253.9	253.4
45°	259.0	247.1	236.5	231.1	228.0	225.5	223.9
47.5°	226.9	217.1	211.2	207.9	205.3	202.8	202.7
50°	207.6	201.2	197.0	193.6	191.6	189.8	191.4
52.5°	192.9	187.0	182.9	179.9	179.0	177.4	177.3
55°	171.2	166.5	163.6	160.8	159.5	158.5	157.3
57.5°	151.3	146.9	144.2	142.5	139.9	139.0	138.6
60°	137.1	133.7	131.0	128.7	127.5	125.7	125.7
62.5°	124.1	120.7	118.2	116.4	114.5	113.8	114.0
65°	105.3	102.5	100.0	98.2	97.8	96.3	96.8
67.5°	88.0	86.1	83.4	82.4	81.6	80.9	80.3
70°	76.3	74.5	73.2	71.8	71.1	71.1	71.1
72.5°	66.7	64.4	63.6	61.9	62.3	61.6	60.8
75°	51.6	50.2	49.6	48.9	47.8	47.8	47.8
77.5°	38.0	37.6	36.8	36.1	35.7	35.5	35.6
80°	29.4	29.1	28.7	28.7	28.2	28.0	27.6
82.5°	22.6	22.0	21.7	21.5	21.4	21.4	21.3
85°	12.8	12.4	12.4	12.6	12.1	12.1	12.4
87.5°	8.4	8.7	8.6	8.6	8.8	8.6	8.6
90°	17.3	18.4	19.0	19.0	19.0	19.0	19.0
92.5°	43.1	38.3	34.6	34.2	32.4	32.8	31.9
95°	115.7	91.6	78.9	71.4	66.9	65.0	65.6
97.5°	288.1	225.8	184.2	156.6	142.5	134.1	129.3
100°	454.4	375.5	305.8	258.0	233.3	216.5	206.2
102.5°	623.5	565.8	491.9	440.0	397.7	376.9	362.8
105°	764.8	772.3	753.3	717.6	681.9	657.1	649.0
107.5°	754.5	814.4	842.2	846.7	844.8	839.8	829.1
110°	722.2	795.9	843.1	867.9	878.9	884.0	883.4



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	684.0	762.8	816.9	851.3	869.6	879.4	882.5
115°	631.8	707.2	766.6	807.4	833.9	848.9	854.0
117.5°	589.4	657.8	713.5	755.2	783.2	798.9	803.2
120°	567.2	628.3	680.8	721.0	748.1	764.8	770.5
122.5°	548.9	606.6	654.0	690.1	716.8	731.6	736.5
125°	524.6	575.3	618.5	652.0	673.8	688.2	692.9
127.5°	501.2	549.0	588.9	617.9	638.4	650.9	654.6
130°	485.5	531.0	569.0	597.2	616.8	628.3	632.9
132.5°	470.8	512.6	548.3	576.0	595.6	606.2	610.4
135°	447.5	485.5	517.8	542.5	561.5	571.9	574.2
137.5°	429.0	459.1	487.3	509.8	526.1	535.2	538.7
140°	417.0	443.4	468.8	487.3	502.2	510.8	514.3
142.5°	406.4	429.2	450.4	467.9	481.5	489.2	489.9
145°	392.7	410.6	427.4	441.1	450.9	456.7	458.4
147.5°	381.7	395.7	407.9	419.3	427.1	431.0	432.0
150°	374.4	386.5	396.8	405.5	412.3	415.8	416.4
152.5°	368.4	378.6	387.6	394.4	400.4	402.9	403.0
155°	358.8	367.4	373.8	380.1	384.2	386.5	385.3
157.5°	349.1	356.4	361.3	365.8	369.2	370.2	370.2
160°	342.6	349.0	353.0	357.1	359.9	360.5	360.5
162.5°	336.7	342.1	345.2	349.2	351.2	351.7	351.3
165°	327.7	331.7	334.1	336.3	338.6	338.6	338.1
167.5°	319.5	322.2	324.4	325.4	326.7	326.6	325.9
170°	314.5	316.8	317.9	318.5	320.2	319.6	318.5
172.5°	309.8	311.6	312.4	313.0	313.8	313.2	312.5
175°	304.7	305.3	305.8	305.8	306.4	305.8	304.7
177.5°	300.8	301.3	301.3	301.3	301.3	300.8	299.9
180°	299.4	299.4	299.4	299.4	299.4	299.4	299.4

(END OF REPORT)