

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: P331278-927

Luminaire Tested: **SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331278-927
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-C290D1080U927-4F0-1E-UDD-A4
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 1080 LUMENS PER FOOT, BATWING OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367.3 lumens
Efficiency: N/A
Efficacy: 103.5 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

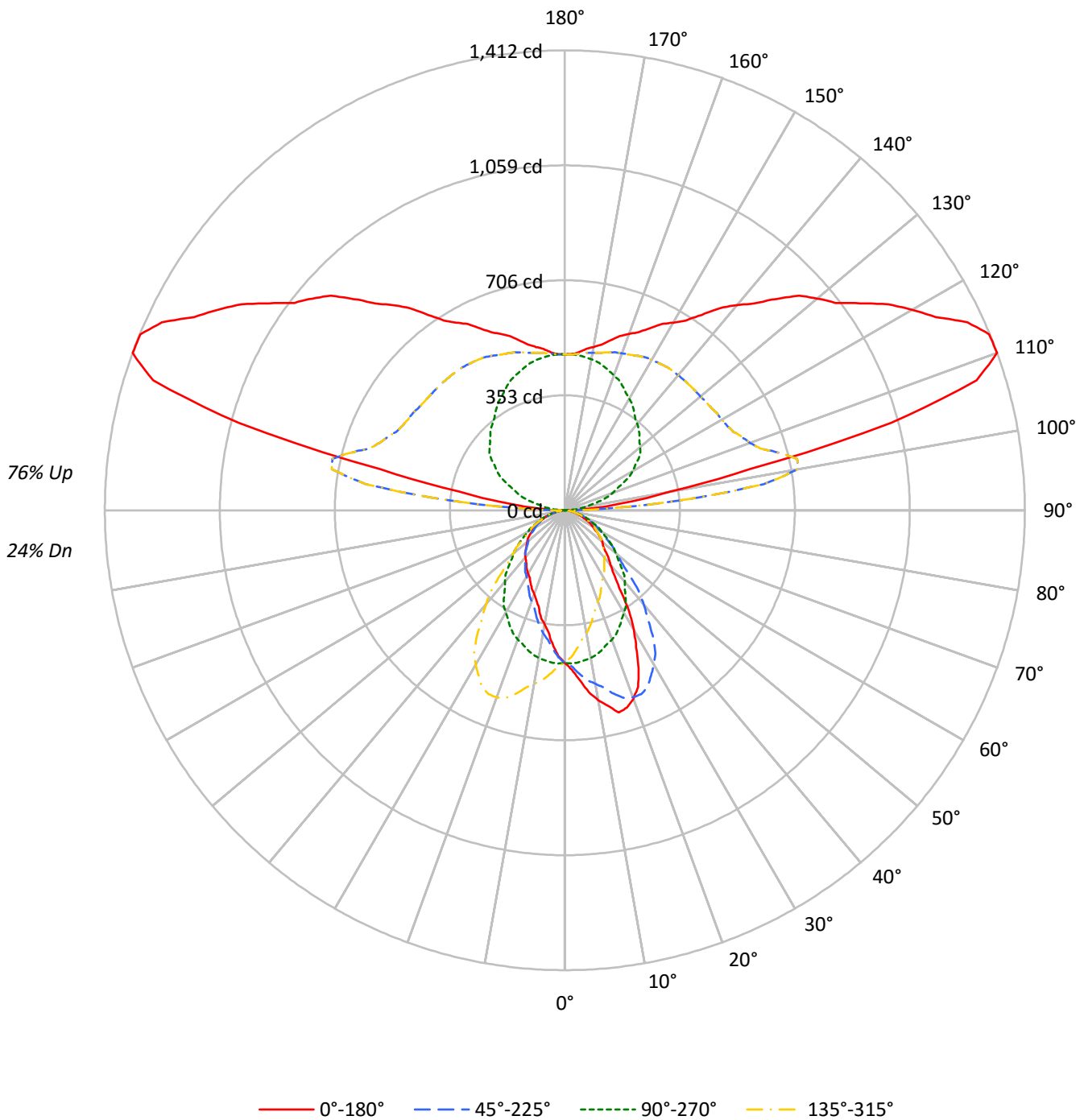
Input Watts (W): 42.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24				24
1	92	88	84	81	82	78	75	73	60	58	57	44	43	42	29	28	27				20	
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	25	24	23				17	
3	77	68	61	56	68	61	55	50	47	43	40	34	32	30	23	21	20				15	
4	70	60	53	47	62	54	47	43	42	37	34	31	28	26	20	19	17				13	
5	64	53	46	40	57	48	41	37	37	33	29	28	25	22	18	17	15				12	
6	59	48	40	35	53	43	36	32	34	29	26	25	22	19	17	15	14				10	
7	55	43	36	30	49	39	32	28	30	26	22	23	20	17	15	14	12				9	
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	14	12	11				8	
9	47	36	28	24	42	32	26	22	25	21	18	19	16	14	13	11	10				8	
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	10	9				7	

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7561	7561	7561	7561
5°	8475	7609	6744	7609
10°	9712	7547	5835	7547
15°	10745	7408	5157	7408
20°	10581	7261	4699	7261
25°	9540	7062	4411	7062
30°	7884	6747	4200	6747
35°	5746	6416	4050	6416
40°	4591	6028	3967	6028
45°	4010	5576	3854	5576
50°	3770	5139	3778	5139
55°	3474	4695	3676	4695
60°	3184	4224	3523	4224
65°	2904	3801	3370	3801
70°	2634	3389	3144	3389
75°	2339	2932	2782	2932
80°	2008	2427	2241	2427
85°	1797	1797	1334	1797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.0
10°-20°	129.6	3.0
20°-30°	188.1	4.3
30°-40°	198.5	4.5
40°-50°	175.8	4.0
50°-60°	140.3	3.2
60°-70°	95.4	2.2
70°-80°	48.9	1.1
80°-90°	16.1	0.4
90°-100°	191.3	4.4
100°-110°	649.3	14.9
110°-120°	689.8	15.8
120°-130°	567.8	13.0
130°-140°	456.0	10.4
140°-150°	344.6	7.9
150°-160°	242.2	5.5
160°-170°	142.6	3.3
170°-180°	46.4	1.1
0°-30°	362.4	8.3
0°-40°	560.9	12.8
0°-60°	877.0	20.1
0°-90°	1037.3	23.8
90°-120°	1530.4	35.0
90°-150°	2898.8	66.4
90°-180°	3330.0	76.2
0°-180°	4367.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	468	468	468	468	468	
5°	523	470	416	470	523	52
15°	643	443	308	443	643	177
25°	536	396	248	396	536	242
35°	292	326	206	326	292	190
45°	176	244	169	244	176	138
55°	123	167	131	167	123	111
65°	76	100	88	100	76	76
75°	38	47	45	47	38	40
85°	10	10	7	10	10	11
90°	30	1	30	1	30	17
95°	105	32	105	32	105	136
105°	1037	112	1037	112	1037	1003
115°	1365	198	1365	198	1365	1336
125°	1107	276	1107	276	1107	1000
135°	918	324	918	324	918	713
145°	732	370	732	370	732	465
155°	616	421	616	421	616	287
165°	540	458	540	458	540	154
175°	487	478	487	478	487	47
180°	479	479	479	479	479	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	489.8	490.0	490.3	488.0	487.7	487.7	485.7	483.9	481.9	479.2	479.5
5°	522.9	524.9	525.6	523.5	520.2	519.9	516.8	511.8	507.1	503.4	500.7
7.5°	562.4	563.2	561.5	558.6	556.3	551.9	546.2	540.7	532.8	525.7	520.4
10°	592.4	593.5	590.4	586.3	582.9	577.8	569.6	561.1	550.9	541.0	533.1
12.5°	615.1	617.8	613.9	613.4	607.5	600.6	590.7	586.5	572.0	558.3	549.7
15°	642.8	642.6	643.0	639.5	635.3	634.1	623.8	612.4	592.1	583.9	569.9
17.5°	634.8	637.5	638.8	638.7	638.7	637.9	634.6	627.5	617.3	604.1	588.0
20°	615.8	619.4	620.0	624.1	626.5	629.5	630.7	628.8	622.5	611.5	597.5
22.5°	586.5	587.5	589.1	595.6	600.6	608.3	612.3	619.0	616.6	611.2	599.4
25°	535.5	533.8	540.0	543.3	555.0	567.2	576.1	585.7	594.4	599.6	596.2
27.5°	474.4	471.7	481.2	489.8	499.2	512.5	526.2	542.5	556.0	572.9	578.7
30°	422.9	424.5	433.5	442.7	457.1	475.8	491.3	509.1	528.4	547.2	560.4
32.5°	367.3	373.5	379.2	393.3	406.0	426.8	449.6	471.8	495.8	517.3	537.7
35°	291.5	298.7	306.7	316.9	334.7	355.4	377.6	407.6	440.4	469.7	493.8
37.5°	245.4	244.2	248.7	256.2	270.6	287.3	312.8	342.5	381.0	415.5	449.6
40°	217.8	217.1	220.2	227.1	238.1	250.3	272.7	298.7	334.5	376.7	417.2
42.5°	198.8	199.2	201.0	205.8	213.3	223.4	240.1	262.3	295.1	334.8	378.3
45°	175.6	176.9	178.9	181.3	185.5	193.8	203.2	219.0	244.9	278.1	320.8
47.5°	159.0	159.1	161.1	163.1	165.6	170.3	178.0	187.9	206.2	233.1	270.0
50°	150.1	148.9	150.3	151.9	154.6	157.8	162.9	172.2	184.4	206.2	237.0
52.5°	139.1	139.2	140.5	141.1	143.5	146.7	151.3	157.8	168.9	185.9	211.2
55°	123.4	124.4	125.1	126.1	128.3	130.6	134.3	138.6	147.2	159.9	178.7
57.5°	108.7	109.0	109.7	111.8	113.1	115.3	118.7	122.6	128.3	137.7	151.8
60°	98.6	98.6	100.1	100.9	102.7	104.9	107.6	111.4	116.5	124.1	135.5
62.5°	89.4	89.3	89.8	91.3	92.7	94.7	97.4	100.6	105.4	112.3	121.5
65°	76.0	75.6	76.7	77.0	78.4	80.4	82.6	86.0	89.8	94.8	103.1
67.5°	63.0	63.5	64.0	64.6	65.4	67.6	69.0	71.4	74.6	78.8	84.4
70°	55.8	55.8	55.8	56.3	57.4	58.5	59.9	61.9	65.0	68.5	73.6
72.5°	47.7	48.3	48.9	48.6	49.9	50.5	52.3	53.4	56.3	58.6	63.1
75°	37.5	37.5	37.5	38.3	38.9	39.4	40.5	41.6	43.0	45.9	48.2
77.5°	28.0	27.9	28.0	28.3	28.8	29.5	29.8	30.7	32.1	33.4	35.4
80°	21.6	21.9	22.1	22.5	22.5	22.8	23.1	24.3	25.2	26.1	27.3
82.5°	16.7	16.8	16.8	16.9	17.0	17.3	17.7	18.1	18.5	19.2	20.1
85°	9.7	9.5	9.5	9.9	9.7	9.7	10.1	10.5	10.5	10.6	11.2
87.5°	9.8	9.8	10.0	9.8	9.8	9.7	9.4	9.7	10.0	10.3	10.2
90°	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5	30.3	31.3	30.3
92.5°	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2	101.1	119.6	118.0
95°	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1	315.7	360.8	319.3
97.5°	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6	646.0	615.8	463.8
100°	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2	859.5	727.0	500.6
102.5°	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1	939.1	730.7	486.6
105°	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1	926.7	681.9	459.2
107.5°	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9	845.9	629.6	445.6
110°	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3	795.1	604.6	442.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8	759.8	588.4	443.4
115°	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8	716.0	570.5	447.3
117.5°	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4	688.3	561.9	453.8
120°	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3	673.6	556.7	458.3
122.5°	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5	661.1	553.8	463.4
125°	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5	643.3	548.5	471.2
127.5°	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0	626.7	545.3	479.1
130°	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6	615.7	543.8	485.0
132.5°	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0	606.8	543.1	490.8
135°	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3	594.5	542.0	497.9
137.5°	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6	585.8	541.9	504.1
140°	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1	580.7	541.1	507.1
142.5°	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8	575.5	541.1	509.3
145°	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2	568.7	539.2	511.7
147.5°	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1	561.7	536.0	512.4
150°	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9	555.8	533.8	511.7
152.5°	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8	550.6	530.0	510.2
155°	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6	541.1	523.6	507.9
157.5°	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5	532.1	517.0	503.7
160°	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4	525.5	512.6	501.5
162.5°	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3	519.6	508.9	499.3
165°	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2	509.8	501.5	495.1
167.5°	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6	500.3	495.1	490.8
170°	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7	495.1	491.4	488.6
172.5°	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1	490.0	487.0	485.7
175°	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9	483.2	482.2	481.3
177.5°	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8	479.3	478.6	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	480.5	479.3	478.6	476.0	473.7	471.4	470.7	471.0	467.8	464.8	463.5
5°	499.2	495.6	492.2	487.4	481.6	475.2	472.1	469.5	463.2	456.4	452.4
7.5°	515.9	510.8	504.2	495.1	486.7	476.8	470.5	464.9	455.7	446.1	440.1
10°	526.2	519.2	510.7	499.6	489.3	477.2	468.8	460.3	449.6	438.0	430.8
12.5°	535.0	525.5	517.2	502.9	490.8	475.6	465.6	453.7	442.4	428.6	421.6
15°	555.9	538.4	522.6	506.4	491.5	470.4	459.2	443.2	428.3	411.4	403.3
17.5°	572.0	552.4	527.5	506.9	489.5	466.1	449.8	430.6	413.0	393.6	382.6
20°	581.2	558.7	532.0	507.5	486.6	459.9	442.1	422.6	401.9	380.1	368.2
22.5°	586.7	563.1	536.5	505.3	480.9	455.0	432.5	411.0	390.1	366.5	354.1
25°	588.4	566.9	538.8	503.5	473.6	444.3	417.3	396.4	371.1	349.1	331.0
27.5°	579.9	564.4	537.4	500.1	465.3	431.0	400.9	377.3	350.5	326.7	308.4
30°	569.3	560.4	534.1	496.7	458.7	421.8	388.7	361.9	335.3	311.2	292.4
32.5°	553.1	551.2	528.1	491.8	451.6	410.2	375.9	348.8	319.2	295.6	277.7
35°	521.2	529.8	515.2	480.9	438.4	393.6	356.5	325.5	294.9	272.3	255.6
37.5°	478.3	499.8	496.0	464.9	420.4	375.5	334.5	302.2	273.1	250.2	233.8
40°	448.8	476.2	480.1	452.6	407.8	361.6	318.1	286.0	257.5	236.6	220.1
42.5°	417.2	449.1	459.9	437.9	394.0	346.8	303.5	270.1	241.9	221.7	207.0
45°	364.1	406.3	426.0	413.4	370.9	322.7	278.1	244.2	218.6	199.6	188.2
47.5°	314.4	360.6	387.0	382.5	345.2	297.5	253.3	220.9	196.0	180.8	170.6
50°	279.3	326.8	358.6	360.1	326.8	279.5	235.2	204.6	181.7	167.5	159.2
52.5°	248.7	294.1	328.8	336.5	306.2	260.8	219.0	188.5	168.3	155.3	147.9
55°	208.9	247.2	285.7	299.8	275.5	232.3	193.6	166.8	147.9	138.9	132.5
57.5°	173.7	205.7	241.2	256.7	241.8	204.8	168.5	145.2	129.9	122.0	117.0
60°	155.1	180.3	212.0	230.5	217.5	184.7	153.0	130.8	118.2	111.2	106.5
62.5°	137.8	160.2	187.0	203.9	196.9	165.8	137.4	117.9	107.0	100.4	97.0
65°	113.8	131.3	152.1	167.7	163.0	139.5	116.2	99.5	90.9	85.6	82.9
67.5°	93.6	106.4	120.7	134.4	130.7	114.0	95.4	82.3	75.9	71.4	69.7
70°	81.0	90.7	103.5	114.5	111.4	97.8	82.9	71.8	66.2	62.4	60.8
72.5°	68.9	76.8	86.7	95.6	93.6	82.1	69.9	61.5	57.1	53.6	52.4
75°	52.0	58.1	64.1	70.0	69.5	60.7	53.5	47.0	43.6	40.9	40.3
77.5°	38.4	41.8	45.9	49.4	48.4	43.3	37.7	34.0	31.5	29.7	29.4
80°	29.3	31.3	34.2	36.7	35.5	33.3	28.8	26.1	24.3	22.5	21.8
82.5°	21.3	23.2	25.0	26.4	25.3	23.4	20.6	18.8	17.7	16.5	16.2
85°	11.2	12.2	13.0	13.3	13.0	11.7	10.5	9.7	8.8	8.2	8.1
87.5°	9.3	8.0	7.1	6.8	6.0	5.6	4.4	3.3	3.7	4.4	4.4
90°	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0	3.6	7.4	9.2
92.5°	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2	16.2	22.8	26.9
95°	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2	35.9	45.1	53.4
97.5°	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4	57.4	67.2	79.7
100°	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8	73.6	81.9	96.6
102.5°	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8	89.8	98.1	112.8
105°	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3	116.0	122.4	136.2
107.5°	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8	141.7	148.0	160.7
110°	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5	160.1	165.6	177.6



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6	176.3	182.6	193.8
115°	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9	202.5	207.9	219.0
117.5°	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0	227.7	233.2	243.0
120°	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2	243.8	249.4	257.7
122.5°	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6	258.6	264.1	273.1
125°	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1	278.8	284.4	295.4
127.5°	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2	296.0	303.7	315.8
130°	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8	305.5	314.7	327.6
132.5°	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7	315.1	325.0	338.7
135°	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9	327.6	338.7	352.4
137.5°	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4	340.9	351.9	366.6
140°	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0	349.7	360.8	375.5
142.5°	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6	358.5	368.8	383.6
145°	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9	373.6	382.9	396.6
147.5°	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4	388.2	397.0	409.7
150°	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7	398.5	405.8	417.8
152.5°	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0	407.3	414.6	425.2
155°	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6	421.4	427.0	437.1
157.5°	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7	433.6	438.1	446.9
160°	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8	441.7	445.4	452.7
162.5°	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9	448.4	452.0	457.9
165°	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3	457.4	459.2	464.7
167.5°	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0	464.9	466.6	470.1
170°	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2	469.4	470.2	473.0
172.5°	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1	473.0	472.5	475.2
175°	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6	476.7	475.8	477.6
177.5°	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3	477.8	477.1	478.6
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	462.1	461.2	458.2	456.6	454.0	451.5	450.0	450.7	451.2	451.0	450.5
5°	448.8	445.4	440.1	435.7	432.5	426.5	424.0	422.7	421.6	420.4	419.1
7.5°	433.0	427.6	420.2	413.8	407.7	400.3	396.1	393.6	391.0	388.2	385.6
10°	421.8	414.2	406.3	397.4	390.1	383.5	377.6	373.6	369.9	366.5	364.1
12.5°	410.0	401.3	391.5	379.2	371.3	361.7	360.8	353.9	348.2	346.1	343.2
15°	391.3	379.0	366.5	352.0	345.7	337.1	331.7	326.2	321.4	318.0	317.1
17.5°	369.9	354.0	341.7	331.2	320.9	312.0	307.0	302.8	298.7	294.2	293.6
20°	353.6	339.9	326.5	317.3	306.7	297.6	291.5	287.2	283.8	281.1	278.8
22.5°	338.2	323.2	310.9	300.9	290.4	283.1	278.3	274.1	271.2	268.3	266.1
25°	313.5	301.8	288.3	276.9	268.3	263.6	259.7	256.1	254.3	252.3	249.8
27.5°	291.8	278.8	266.3	257.5	249.9	245.7	242.9	240.4	238.8	237.6	236.1
30°	276.6	263.5	253.6	244.9	238.6	234.5	232.7	231.2	229.3	228.5	227.8
32.5°	261.9	250.1	241.6	234.1	228.1	225.4	223.8	222.4	220.9	220.2	218.7
35°	241.1	231.2	223.0	218.8	214.0	211.6	210.4	208.6	207.2	206.4	206.2
37.5°	221.6	213.0	207.6	202.2	200.2	198.8	197.0	195.8	195.4	195.3	195.0
40°	208.9	201.9	197.0	192.7	191.9	189.6	188.2	187.2	187.2	187.4	187.2
42.5°	197.4	191.1	186.8	183.1	182.0	180.8	179.3	179.3	179.5	180.1	179.5
45°	180.0	175.5	172.4	170.6	168.7	167.4	167.2	167.7	167.9	168.1	168.7
47.5°	163.9	160.9	158.1	156.1	155.3	155.1	154.9	155.8	156.7	157.0	157.8
50°	154.4	151.0	148.6	147.3	146.6	146.3	146.6	147.7	148.5	149.3	149.9
52.5°	143.8	141.3	139.7	138.7	138.5	138.7	138.7	140.0	141.1	141.5	141.7
55°	129.0	127.2	126.9	125.2	126.0	125.8	126.7	127.4	128.5	129.6	129.8
57.5°	114.3	112.9	111.9	112.1	112.3	113.1	113.8	115.1	116.2	117.4	117.5
60°	104.6	103.9	103.3	103.3	103.6	104.7	105.6	106.9	107.6	108.4	108.8
62.5°	95.6	94.9	94.3	94.7	95.6	96.3	97.3	98.0	98.7	99.4	99.7
65°	81.5	81.2	81.7	82.1	82.2	83.1	84.4	84.9	85.6	86.0	87.3
67.5°	68.5	68.6	68.5	69.0	70.1	70.3	71.5	72.7	72.9	73.6	74.4
70°	59.7	60.1	60.4	60.8	61.7	62.1	63.0	63.5	64.2	64.8	65.4
72.5°	51.7	51.7	52.1	52.0	52.8	53.6	54.3	54.9	55.6	56.3	56.8
75°	39.8	39.8	40.2	40.3	41.2	42.1	41.9	42.3	43.0	43.7	44.1
77.5°	29.1	28.7	29.1	29.2	29.5	30.3	30.4	30.9	31.8	31.5	31.9
80°	22.1	21.6	22.1	22.3	22.3	23.2	23.2	23.6	24.1	23.6	24.1
82.5°	15.8	15.5	15.9	16.0	16.2	16.3	16.6	16.6	17.2	17.0	17.2
85°	7.9	7.8	7.9	7.8	7.9	8.1	8.1	7.9	7.9	8.2	7.8
87.5°	4.7	5.1	5.9	7.1	8.1	8.2	7.8	7.6	7.3	7.4	7.5
90°	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5	27.6	29.5	30.3
92.5°	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2	68.8	61.1	55.4
95°	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1	185.0	146.3	126.0
97.5°	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6	460.3	360.8	294.3
100°	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2	726.1	600.0	488.6
102.5°	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1	996.2	904.0	786.1
105°	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1	1222.1	1234.1	1203.7
107.5°	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9	1205.5	1301.2	1345.8
110°	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3	1154.0	1271.8	1347.3



TEST NUMBER: P331278-927

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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8	1092.9	1218.8	1305.3
115°	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8	1009.6	1130.0	1224.9
117.5°	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4	941.8	1051.1	1140.0
120°	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3	906.4	1004.0	1087.7
122.5°	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5	877.0	969.4	1045.0
125°	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5	838.4	919.3	988.3
127.5°	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0	800.8	877.2	940.9
130°	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6	775.8	848.5	909.2
132.5°	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0	752.3	819.0	876.1
135°	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3	715.0	775.8	827.3
137.5°	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6	685.4	733.6	778.6
140°	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1	666.3	708.6	749.1
142.5°	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8	649.4	685.8	719.6
145°	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2	627.6	656.2	682.9
147.5°	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1	610.0	632.2	651.7
150°	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9	598.2	617.5	634.1
152.5°	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8	588.6	605.0	619.3
155°	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6	573.3	587.1	597.2
157.5°	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5	557.9	569.4	577.3
160°	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4	547.6	557.7	564.1
162.5°	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3	538.0	546.6	551.6
165°	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2	523.6	530.0	533.8
167.5°	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6	510.6	515.0	518.3
170°	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7	502.5	506.1	507.9
172.5°	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1	495.1	498.0	499.2
175°	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9	486.8	487.7	488.6
177.5°	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8	480.8	481.5	481.5
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	449.1	448.8	448.8	447.5	448.8	448.8	449.1	450.5	451.0	451.2	450.7
5°	416.6	416.1	415.2	416.1	415.2	416.1	416.6	419.1	420.4	421.6	422.7
7.5°	384.4	382.3	382.0	379.9	382.0	382.3	384.4	385.6	388.2	391.0	393.6
10°	361.0	359.6	359.3	355.9	359.3	359.6	361.0	364.1	366.5	369.9	373.6
12.5°	343.2	339.7	340.4	338.4	340.4	339.7	343.2	343.2	346.1	348.2	353.9
15°	312.2	312.2	311.5	308.5	311.5	312.2	312.2	317.1	318.0	321.4	326.2
17.5°	290.0	289.6	288.0	288.8	288.0	289.6	290.0	293.6	294.2	298.7	302.8
20°	276.8	275.7	273.5	273.5	273.5	275.7	276.8	278.8	281.1	283.8	287.2
22.5°	264.3	264.2	261.9	262.6	261.9	264.2	264.3	266.1	268.3	271.2	274.1
25°	249.6	248.2	247.1	247.6	247.1	248.2	249.6	249.8	252.3	254.3	256.1
27.5°	235.7	234.9	234.8	233.4	234.8	234.9	235.7	236.1	237.6	238.8	240.4
30°	227.7	225.9	226.2	225.3	226.2	225.9	227.7	227.8	228.5	229.3	231.2
32.5°	218.4	217.8	217.5	216.7	217.5	217.8	218.4	218.7	220.2	220.9	222.4
35°	205.9	206.0	205.2	205.5	205.2	206.0	205.9	206.2	206.4	207.2	208.6
37.5°	194.9	195.4	195.0	195.1	195.0	195.4	194.9	195.0	195.3	195.4	195.8
40°	187.7	187.7	187.7	188.2	187.7	187.7	187.7	187.2	187.4	187.2	187.2
42.5°	180.8	180.5	180.2	180.1	180.2	180.5	180.8	179.5	180.1	179.5	179.3
45°	169.0	169.5	169.7	168.8	169.7	169.5	169.0	168.7	168.1	167.9	167.7
47.5°	158.3	158.4	158.3	159.1	158.3	158.4	158.3	157.8	157.0	156.7	155.8
50°	150.8	150.4	150.8	150.4	150.8	150.4	150.8	149.9	149.3	148.5	147.7
52.5°	142.9	143.0	142.8	142.7	142.8	143.0	142.9	141.7	141.5	141.1	140.0
55°	130.5	130.8	130.6	130.6	130.6	130.8	130.5	129.8	129.6	128.5	127.4
57.5°	117.6	118.0	118.2	117.4	118.2	118.0	117.6	117.5	117.4	116.2	115.1
60°	108.7	109.6	109.4	109.1	109.4	109.6	108.7	108.8	108.4	107.6	106.9
62.5°	100.4	100.8	100.8	100.7	100.8	100.8	100.4	99.7	99.4	98.7	98.0
65°	87.9	88.2	87.6	88.2	87.6	88.2	87.9	87.3	86.0	85.6	84.9
67.5°	74.1	74.3	74.7	74.9	74.7	74.3	74.1	74.4	73.6	72.9	72.7
70°	65.7	65.5	66.1	66.6	66.1	65.5	65.7	65.4	64.8	64.2	63.5
72.5°	56.7	57.1	57.0	57.4	57.0	57.1	56.7	56.8	56.3	55.6	54.9
75°	43.7	44.3	44.1	44.6	44.1	44.3	43.7	44.1	43.7	43.0	42.3
77.5°	31.6	31.7	31.6	31.9	31.6	31.7	31.6	31.9	31.5	31.8	30.9
80°	24.1	23.8	23.4	24.1	23.4	23.8	24.1	24.1	23.6	24.1	23.6
82.5°	16.8	17.0	16.6	16.6	16.6	17.0	16.8	17.2	17.0	17.2	16.6
85°	7.8	7.5	7.2	7.2	7.2	7.5	7.8	7.8	8.2	7.9	7.9
87.5°	7.5	7.4	7.4	7.2	7.4	7.4	7.5	7.5	7.4	7.3	7.6
90°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	29.5	27.6	29.5
92.5°	54.7	51.7	52.4	51.0	52.4	51.7	54.7	55.4	61.1	68.8	80.2
95°	114.1	106.8	104.0	104.9	104.0	106.8	114.1	126.0	146.3	185.0	241.1
97.5°	250.3	227.7	214.2	206.5	214.2	227.7	250.3	294.3	360.8	460.3	562.6
100°	412.3	372.7	346.0	329.5	346.0	372.7	412.3	488.6	600.0	726.1	840.2
102.5°	703.1	635.6	602.2	579.8	602.2	635.6	703.1	786.1	904.0	996.2	1022.1
105°	1146.6	1089.6	1050.0	1037.1	1050.0	1089.6	1146.6	1203.7	1234.1	1222.1	1118.1
107.5°	1353.0	1349.8	1341.9	1324.8	1341.9	1349.8	1353.0	1345.8	1301.2	1205.5	1048.9
110°	1386.8	1404.3	1412.6	1411.7	1412.6	1404.3	1386.8	1347.3	1271.8	1154.0	989.3



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	1360.3	1389.6	1405.3	1410.2	1405.3	1389.6	1360.3	1305.3	1218.8	1092.9	934.8
115°	1290.2	1332.5	1356.5	1364.8	1356.5	1332.5	1290.2	1224.9	1130.0	1009.6	867.8
117.5°	1206.7	1251.3	1276.6	1283.6	1276.6	1251.3	1206.7	1140.0	1051.1	941.8	817.4
120°	1152.1	1195.4	1222.1	1231.3	1222.1	1195.4	1152.1	1087.7	1004.0	906.4	792.3
122.5°	1102.8	1145.3	1169.1	1176.8	1169.1	1145.3	1102.8	1045.0	969.4	877.0	772.5
125°	1041.7	1076.7	1099.7	1107.1	1099.7	1076.7	1041.7	988.3	919.3	838.4	743.5
127.5°	987.5	1020.2	1040.1	1046.0	1040.1	1020.2	987.5	940.9	877.2	800.8	715.0
130°	954.3	985.6	1004.0	1011.4	1004.0	985.6	954.3	909.2	848.5	775.8	696.6
132.5°	920.4	951.7	968.7	975.3	968.7	951.7	920.4	876.1	819.0	752.3	679.0
135°	866.9	897.2	913.8	917.5	913.8	897.2	866.9	827.3	775.8	715.0	654.3
137.5°	814.6	840.7	855.3	860.8	855.3	840.7	814.6	778.6	733.6	685.4	634.6
140°	778.6	802.5	816.3	821.8	816.3	802.5	778.6	749.1	708.6	666.3	622.1
142.5°	747.6	769.4	781.6	782.8	781.6	769.4	747.6	719.6	685.8	649.4	611.8
145°	704.9	720.6	729.8	732.5	729.8	720.6	704.9	682.9	656.2	627.6	597.2
147.5°	669.9	682.5	688.7	690.4	688.7	682.5	669.9	651.7	632.2	610.0	586.1
150°	647.8	658.9	664.4	665.4	664.4	658.9	647.8	634.1	617.5	598.2	577.9
152.5°	630.2	639.8	643.8	644.0	643.8	639.8	630.2	619.3	605.0	588.6	569.8
155°	607.4	613.8	617.5	615.7	617.5	613.8	607.4	597.2	587.1	573.3	558.6
157.5°	584.6	589.9	591.5	591.5	591.5	589.9	584.6	577.3	569.4	557.9	545.5
160°	570.5	575.1	576.1	576.1	576.1	575.1	570.5	564.1	557.7	547.6	537.4
162.5°	558.0	561.2	562.1	561.3	562.1	561.2	558.0	551.6	546.6	538.0	529.3
165°	537.4	541.1	541.1	540.2	541.1	541.1	537.4	533.8	530.0	523.6	517.2
167.5°	519.9	522.0	521.8	520.7	521.8	522.0	519.9	518.3	515.0	510.6	505.6
170°	508.9	511.7	510.7	508.9	510.7	511.7	508.9	507.9	506.1	502.5	499.7
172.5°	500.1	501.4	500.4	499.3	500.4	501.4	500.1	499.2	498.0	495.1	493.1
175°	488.6	489.6	488.6	486.8	488.6	489.6	488.6	488.6	487.7	486.8	485.9
177.5°	481.5	481.5	480.8	479.3	480.8	481.5	481.5	481.5	481.5	480.8	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	450.0	451.5	454.0	456.6	458.2	461.2	462.1	463.5	464.8	467.8	471.0
5°	424.0	426.5	432.5	435.7	440.1	445.4	448.8	452.4	456.4	463.2	469.5
7.5°	396.1	400.3	407.7	413.8	420.2	427.6	433.0	440.1	446.1	455.7	464.9
10°	377.6	383.5	390.1	397.4	406.3	414.2	421.8	430.8	438.0	449.6	460.3
12.5°	360.8	361.7	371.3	379.2	391.5	401.3	410.0	421.6	428.6	442.4	453.7
15°	331.7	337.1	345.7	352.0	366.5	379.0	391.3	403.3	411.4	428.3	443.2
17.5°	307.0	312.0	320.9	331.2	341.7	354.0	369.9	382.6	393.6	413.0	430.6
20°	291.5	297.6	306.7	317.3	326.5	339.9	353.6	368.2	380.1	401.9	422.6
22.5°	278.3	283.1	290.4	300.9	310.9	323.2	338.2	354.1	366.5	390.1	411.0
25°	259.7	263.6	268.3	276.9	288.3	301.8	313.5	331.0	349.1	371.1	396.4
27.5°	242.9	245.7	249.9	257.5	266.3	278.8	291.8	308.4	326.7	350.5	377.3
30°	232.7	234.5	238.6	244.9	253.6	263.5	276.6	292.4	311.2	335.3	361.9
32.5°	223.8	225.4	228.1	234.1	241.6	250.1	261.9	277.7	295.6	319.2	348.8
35°	210.4	211.6	214.0	218.8	223.0	231.2	241.1	255.6	272.3	294.9	325.5
37.5°	197.0	198.8	200.2	202.2	207.6	213.0	221.6	233.8	250.2	273.1	302.2
40°	188.2	189.6	191.9	192.7	197.0	201.9	208.9	220.1	236.6	257.5	286.0
42.5°	179.3	180.8	182.0	183.1	186.8	191.1	197.4	207.0	221.7	241.9	270.1
45°	167.2	167.4	168.7	170.6	172.4	175.5	180.0	188.2	199.6	218.6	244.2
47.5°	154.9	155.1	155.3	156.1	158.1	160.9	163.9	170.6	180.8	196.0	220.9
50°	146.6	146.3	146.6	147.3	148.6	151.0	154.4	159.2	167.5	181.7	204.6
52.5°	138.7	138.7	138.5	138.7	139.7	141.3	143.8	147.9	155.3	168.3	188.5
55°	126.7	125.8	126.0	125.2	126.9	127.2	129.0	132.5	138.9	147.9	166.8
57.5°	113.8	113.1	112.3	112.1	111.9	112.9	114.3	117.0	122.0	129.9	145.2
60°	105.6	104.7	103.6	103.3	103.3	103.9	104.6	106.5	111.2	118.2	130.8
62.5°	97.3	96.3	95.6	94.7	94.3	94.9	95.6	97.0	100.4	107.0	117.9
65°	84.4	83.1	82.2	82.1	81.7	81.2	81.5	82.9	85.6	90.9	99.5
67.5°	71.5	70.3	70.1	69.0	68.5	68.6	68.5	69.7	71.4	75.9	82.3
70°	63.0	62.1	61.7	60.8	60.4	60.1	59.7	60.8	62.4	66.2	71.8
72.5°	54.3	53.6	52.8	52.0	52.1	51.7	51.7	52.4	53.6	57.1	61.5
75°	41.9	42.1	41.2	40.3	40.2	39.8	39.8	40.3	40.9	43.6	47.0
77.5°	30.4	30.3	29.5	29.2	29.1	28.7	29.1	29.4	29.7	31.5	34.0
80°	23.2	23.2	22.3	22.3	22.1	21.6	22.1	21.8	22.5	24.3	26.1
82.5°	16.6	16.3	16.2	16.0	15.9	15.5	15.8	16.2	16.5	17.7	18.8
85°	8.1	8.1	7.9	7.8	7.9	7.8	7.9	8.1	8.2	8.8	9.7
87.5°	7.8	8.2	8.1	7.1	5.9	5.1	4.7	4.4	4.4	3.7	3.3
90°	30.3	31.3	30.3	24.9	18.4	13.8	11.0	9.2	7.4	3.6	1.0
92.5°	101.1	119.6	118.0	91.8	62.6	41.7	33.1	26.9	22.8	16.2	11.2
95°	315.7	360.8	319.3	212.5	132.5	90.2	68.1	53.4	45.1	35.9	32.2
97.5°	646.0	615.8	463.8	286.4	174.8	121.7	96.6	79.7	67.2	57.4	52.4
100°	859.5	727.0	500.6	301.8	189.6	140.8	115.0	96.6	81.9	73.6	70.8
102.5°	939.1	730.7	486.6	302.6	202.8	157.7	132.0	112.8	98.1	89.8	87.8
105°	926.7	681.9	459.2	307.4	225.5	182.2	156.5	136.2	122.4	116.0	112.3
107.5°	845.9	629.6	445.6	320.0	248.7	206.7	180.8	160.7	148.0	141.7	138.8
110°	795.1	604.6	442.7	330.3	264.1	223.6	196.9	177.6	165.6	160.1	156.5



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	759.8	588.4	443.4	341.4	278.8	239.8	212.4	193.8	182.6	176.3	172.6
115°	716.0	570.5	447.3	358.0	301.8	262.3	237.4	219.0	207.9	202.5	197.9
117.5°	688.3	561.9	453.8	375.7	323.0	286.4	260.6	243.0	233.2	227.7	224.0
120°	673.6	556.7	458.3	387.5	337.7	301.8	276.1	257.7	249.4	243.8	240.2
122.5°	661.1	553.8	463.4	397.8	351.7	318.1	291.5	273.1	264.1	258.6	255.6
125°	643.3	548.5	471.2	414.2	372.7	339.6	313.8	295.4	284.4	278.8	276.1
127.5°	626.7	545.3	479.1	429.4	392.2	360.0	333.5	315.8	303.7	296.0	292.2
130°	615.7	543.8	485.0	438.9	404.0	371.8	346.0	327.6	314.7	305.5	301.8
132.5°	606.8	543.1	490.8	448.5	414.3	383.6	357.8	338.7	325.0	315.1	310.7
135°	594.5	542.0	497.9	461.1	428.8	399.4	373.6	352.4	338.7	327.6	323.9
137.5°	585.8	541.9	504.1	470.6	440.6	411.5	387.6	366.6	351.9	340.9	336.4
140°	580.7	541.1	507.1	475.8	447.3	419.6	395.7	375.5	360.8	349.7	346.0
142.5°	575.5	541.1	509.3	480.2	452.4	425.6	403.1	383.6	368.8	358.5	355.6
145°	568.7	539.2	511.7	485.9	460.1	435.3	415.0	396.6	382.9	373.6	369.9
147.5°	561.7	536.0	512.4	489.0	466.4	443.0	425.0	409.7	397.0	388.2	385.4
150°	555.8	533.8	511.7	490.5	469.4	448.1	431.6	417.8	405.8	398.5	395.7
152.5°	550.6	530.0	510.2	491.2	472.3	453.3	438.2	425.2	414.6	407.3	406.0
155°	541.1	523.6	507.9	492.3	476.7	461.1	447.3	437.1	427.0	421.4	420.6
157.5°	532.1	517.0	503.7	492.3	479.8	466.6	455.0	446.9	438.1	433.6	432.7
160°	525.5	512.6	501.5	492.3	481.3	470.2	460.1	452.7	445.4	441.7	440.8
162.5°	519.6	508.9	499.3	491.6	482.0	472.5	464.5	457.9	452.0	448.4	448.9
165°	509.8	501.5	495.1	489.6	483.2	474.8	469.4	464.7	459.2	457.4	458.3
167.5°	500.3	495.1	490.8	488.3	482.9	476.9	473.4	470.1	466.6	464.9	466.0
170°	495.1	491.4	488.6	486.8	482.2	477.6	474.8	473.0	470.2	469.4	471.2
172.5°	490.0	487.0	485.7	484.6	481.5	478.3	476.3	475.2	472.5	473.0	474.1
175°	483.2	482.2	481.3	482.2	480.4	478.6	477.6	477.6	475.8	476.7	477.6
177.5°	479.3	478.6	479.3	480.8	479.3	478.6	478.6	478.6	477.1	477.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	470.7	471.4	473.7	476.0	478.6	479.3	480.5	479.5	479.2	481.9	483.9
5°	472.1	475.2	481.6	487.4	492.2	495.6	499.2	500.7	503.4	507.1	511.8
7.5°	470.5	476.8	486.7	495.1	504.2	510.8	515.9	520.4	525.7	532.8	540.7
10°	468.8	477.2	489.3	499.6	510.7	519.2	526.2	533.1	541.0	550.9	561.1
12.5°	465.6	475.6	490.8	502.9	517.2	525.5	535.0	549.7	558.3	572.0	586.5
15°	459.2	470.4	491.5	506.4	522.6	538.4	555.9	569.9	583.9	592.1	612.4
17.5°	449.8	466.1	489.5	506.9	527.5	552.4	572.0	588.0	604.1	617.3	627.5
20°	442.1	459.9	486.6	507.5	532.0	558.7	581.2	597.5	611.5	622.5	628.8
22.5°	432.5	455.0	480.9	505.3	536.5	563.1	586.7	599.4	611.2	616.6	619.0
25°	417.3	444.3	473.6	503.5	538.8	566.9	588.4	596.2	599.6	594.4	585.7
27.5°	400.9	431.0	465.3	500.1	537.4	564.4	579.9	578.7	572.9	556.0	542.5
30°	388.7	421.8	458.7	496.7	534.1	560.4	569.3	560.4	547.2	528.4	509.1
32.5°	375.9	410.2	451.6	491.8	528.1	551.2	553.1	537.7	517.3	495.8	471.8
35°	356.5	393.6	438.4	480.9	515.2	529.8	521.2	493.8	469.7	440.4	407.6
37.5°	334.5	375.5	420.4	464.9	496.0	499.8	478.3	449.6	415.5	381.0	342.5
40°	318.1	361.6	407.8	452.6	480.1	476.2	448.8	417.2	376.7	334.5	298.7
42.5°	303.5	346.8	394.0	437.9	459.9	449.1	417.2	378.3	334.8	295.1	262.3
45°	278.1	322.7	370.9	413.4	426.0	406.3	364.1	320.8	278.1	244.9	219.0
47.5°	253.3	297.5	345.2	382.5	387.0	360.6	314.4	270.0	233.1	206.2	187.9
50°	235.2	279.5	326.8	360.1	358.6	326.8	279.3	237.0	206.2	184.4	172.2
52.5°	219.0	260.8	306.2	336.5	328.8	294.1	248.7	211.2	185.9	168.9	157.8
55°	193.6	232.3	275.5	299.8	285.7	247.2	208.9	178.7	159.9	147.2	138.6
57.5°	168.5	204.8	241.8	256.7	241.2	205.7	173.7	151.8	137.7	128.3	122.6
60°	153.0	184.7	217.5	230.5	212.0	180.3	155.1	135.5	124.1	116.5	111.4
62.5°	137.4	165.8	196.9	203.9	187.0	160.2	137.8	121.5	112.3	105.4	100.6
65°	116.2	139.5	163.0	167.7	152.1	131.3	113.8	103.1	94.8	89.8	86.0
67.5°	95.4	114.0	130.7	134.4	120.7	106.4	93.6	84.4	78.8	74.6	71.4
70°	82.9	97.8	111.4	114.5	103.5	90.7	81.0	73.6	68.5	65.0	61.9
72.5°	69.9	82.1	93.6	95.6	86.7	76.8	68.9	63.1	58.6	56.3	53.4
75°	53.5	60.7	69.5	70.0	64.1	58.1	52.0	48.2	45.9	43.0	41.6
77.5°	37.7	43.3	48.4	49.4	45.9	41.8	38.4	35.4	33.4	32.1	30.7
80°	28.8	33.3	35.5	36.7	34.2	31.3	29.3	27.3	26.1	25.2	24.3
82.5°	20.6	23.4	25.3	26.4	25.0	23.2	21.3	20.1	19.2	18.5	18.1
85°	10.5	11.7	13.0	13.3	13.0	12.2	11.2	11.2	10.6	10.5	10.5
87.5°	4.4	5.6	6.0	6.8	7.1	8.0	9.3	10.2	10.3	10.0	9.7
90°	3.6	7.4	9.2	11.0	13.8	18.4	24.9	30.3	31.3	30.3	29.5
92.5°	16.2	22.8	26.9	33.1	41.7	62.6	91.8	118.0	119.6	101.1	80.2
95°	35.9	45.1	53.4	68.1	90.2	132.5	212.5	319.3	360.8	315.7	241.1
97.5°	57.4	67.2	79.7	96.6	121.7	174.8	286.4	463.8	615.8	646.0	562.6
100°	73.6	81.9	96.6	115.0	140.8	189.6	301.8	500.6	727.0	859.5	840.2
102.5°	89.8	98.1	112.8	132.0	157.7	202.8	302.6	486.6	730.7	939.1	1022.1
105°	116.0	122.4	136.2	156.5	182.2	225.5	307.4	459.2	681.9	926.7	1118.1
107.5°	141.7	148.0	160.7	180.8	206.7	248.7	320.0	445.6	629.6	845.9	1048.9
110°	160.1	165.6	177.6	196.9	223.6	264.1	330.3	442.7	604.6	795.1	989.3



TEST NUMBER: P331278-927

CATALOG NUMBER: SA2XXDIP-C290D1080U927-4F0-1E-UDD-A4

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	176.3	182.6	193.8	212.4	239.8	278.8	341.4	443.4	588.4	759.8	934.8
115°	202.5	207.9	219.0	237.4	262.3	301.8	358.0	447.3	570.5	716.0	867.8
117.5°	227.7	233.2	243.0	260.6	286.4	323.0	375.7	453.8	561.9	688.3	817.4
120°	243.8	249.4	257.7	276.1	301.8	337.7	387.5	458.3	556.7	673.6	792.3
122.5°	258.6	264.1	273.1	291.5	318.1	351.7	397.8	463.4	553.8	661.1	772.5
125°	278.8	284.4	295.4	313.8	339.6	372.7	414.2	471.2	548.5	643.3	743.5
127.5°	296.0	303.7	315.8	333.5	360.0	392.2	429.4	479.1	545.3	626.7	715.0
130°	305.5	314.7	327.6	346.0	371.8	404.0	438.9	485.0	543.8	615.7	696.6
132.5°	315.1	325.0	338.7	357.8	383.6	414.3	448.5	490.8	543.1	606.8	679.0
135°	327.6	338.7	352.4	373.6	399.4	428.8	461.1	497.9	542.0	594.5	654.3
137.5°	340.9	351.9	366.6	387.6	411.5	440.6	470.6	504.1	541.9	585.8	634.6
140°	349.7	360.8	375.5	395.7	419.6	447.3	475.8	507.1	541.1	580.7	622.1
142.5°	358.5	368.8	383.6	403.1	425.6	452.4	480.2	509.3	541.1	575.5	611.8
145°	373.6	382.9	396.6	415.0	435.3	460.1	485.9	511.7	539.2	568.7	597.2
147.5°	388.2	397.0	409.7	425.0	443.0	466.4	489.0	512.4	536.0	561.7	586.1
150°	398.5	405.8	417.8	431.6	448.1	469.4	490.5	511.7	533.8	555.8	577.9
152.5°	407.3	414.6	425.2	438.2	453.3	472.3	491.2	510.2	530.0	550.6	569.8
155°	421.4	427.0	437.1	447.3	461.1	476.7	492.3	507.9	523.6	541.1	558.6
157.5°	433.6	438.1	446.9	455.0	466.6	479.8	492.3	503.7	517.0	532.1	545.5
160°	441.7	445.4	452.7	460.1	470.2	481.3	492.3	501.5	512.6	525.5	537.4
162.5°	448.4	452.0	457.9	464.5	472.5	482.0	491.6	499.3	508.9	519.6	529.3
165°	457.4	459.2	464.7	469.4	474.8	483.2	489.6	495.1	501.5	509.8	517.2
167.5°	464.9	466.6	470.1	473.4	476.9	482.9	488.3	490.8	495.1	500.3	505.6
170°	469.4	470.2	473.0	474.8	477.6	482.2	486.8	488.6	491.4	495.1	499.7
172.5°	473.0	472.5	475.2	476.3	478.3	481.5	484.6	485.7	487.0	490.0	493.1
175°	476.7	475.8	477.6	477.6	478.6	480.4	482.2	481.3	482.2	483.2	485.9
177.5°	477.8	477.1	478.6	478.6	478.6	479.3	480.8	479.3	478.6	479.3	480.8
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6	478.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	485.7	487.7	487.7	488.0	490.3	490.0	489.8
5°	516.8	519.9	520.2	523.5	525.6	524.9	522.9
7.5°	546.2	551.9	556.3	558.6	561.5	563.2	562.4
10°	569.6	577.8	582.9	586.3	590.4	593.5	592.4
12.5°	590.7	600.6	607.5	613.4	613.9	617.8	615.1
15°	623.8	634.1	635.3	639.5	643.0	642.6	642.8
17.5°	634.6	637.9	638.7	638.7	638.8	637.5	634.8
20°	630.7	629.5	626.5	624.1	620.0	619.4	615.8
22.5°	612.3	608.3	600.6	595.6	589.1	587.5	586.5
25°	576.1	567.2	555.0	543.3	540.0	533.8	535.5
27.5°	526.2	512.5	499.2	489.8	481.2	471.7	474.4
30°	491.3	475.8	457.1	442.7	433.5	424.5	422.9
32.5°	449.6	426.8	406.0	393.3	379.2	373.5	367.3
35°	377.6	355.4	334.7	316.9	306.7	298.7	291.5
37.5°	312.8	287.3	270.6	256.2	248.7	244.2	245.4
40°	272.7	250.3	238.1	227.1	220.2	217.1	217.8
42.5°	240.1	223.4	213.3	205.8	201.0	199.2	198.8
45°	203.2	193.8	185.5	181.3	178.9	176.9	175.6
47.5°	178.0	170.3	165.6	163.1	161.1	159.1	159.0
50°	162.9	157.8	154.6	151.9	150.3	148.9	150.1
52.5°	151.3	146.7	143.5	141.1	140.5	139.2	139.1
55°	134.3	130.6	128.3	126.1	125.1	124.4	123.4
57.5°	118.7	115.3	113.1	111.8	109.7	109.0	108.7
60°	107.6	104.9	102.7	100.9	100.1	98.6	98.6
62.5°	97.4	94.7	92.7	91.3	89.8	89.3	89.4
65°	82.6	80.4	78.4	77.0	76.7	75.6	76.0
67.5°	69.0	67.6	65.4	64.6	64.0	63.5	63.0
70°	59.9	58.5	57.4	56.3	55.8	55.8	55.8
72.5°	52.3	50.5	49.9	48.6	48.9	48.3	47.7
75°	40.5	39.4	38.9	38.3	37.5	37.5	37.5
77.5°	29.8	29.5	28.8	28.3	28.0	27.9	28.0
80°	23.1	22.8	22.5	22.5	22.1	21.9	21.6
82.5°	17.7	17.3	17.0	16.9	16.8	16.8	16.7
85°	10.1	9.7	9.7	9.9	9.5	9.5	9.7
87.5°	9.4	9.7	9.8	9.8	10.0	9.8	9.8
90°	27.6	29.5	30.3	30.3	30.3	30.3	30.3
92.5°	68.8	61.1	55.4	54.7	51.7	52.4	51.0
95°	185.0	146.3	126.0	114.1	106.8	104.0	104.9
97.5°	460.3	360.8	294.3	250.3	227.7	214.2	206.5
100°	726.1	600.0	488.6	412.3	372.7	346.0	329.5
102.5°	996.2	904.0	786.1	703.1	635.6	602.2	579.8
105°	1222.1	1234.1	1203.7	1146.6	1089.6	1050.0	1037.1
107.5°	1205.5	1301.2	1345.8	1353.0	1349.8	1341.9	1324.8
110°	1154.0	1271.8	1347.3	1386.8	1404.3	1412.6	1411.7



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	1092.9	1218.8	1305.3	1360.3	1389.6	1405.3	1410.2
115°	1009.6	1130.0	1224.9	1290.2	1332.5	1356.5	1364.8
117.5°	941.8	1051.1	1140.0	1206.7	1251.3	1276.6	1283.6
120°	906.4	1004.0	1087.7	1152.1	1195.4	1222.1	1231.3
122.5°	877.0	969.4	1045.0	1102.8	1145.3	1169.1	1176.8
125°	838.4	919.3	988.3	1041.7	1076.7	1099.7	1107.1
127.5°	800.8	877.2	940.9	987.5	1020.2	1040.1	1046.0
130°	775.8	848.5	909.2	954.3	985.6	1004.0	1011.4
132.5°	752.3	819.0	876.1	920.4	951.7	968.7	975.3
135°	715.0	775.8	827.3	866.9	897.2	913.8	917.5
137.5°	685.4	733.6	778.6	814.6	840.7	855.3	860.8
140°	666.3	708.6	749.1	778.6	802.5	816.3	821.8
142.5°	649.4	685.8	719.6	747.6	769.4	781.6	782.8
145°	627.6	656.2	682.9	704.9	720.6	729.8	732.5
147.5°	610.0	632.2	651.7	669.9	682.5	688.7	690.4
150°	598.2	617.5	634.1	647.8	658.9	664.4	665.4
152.5°	588.6	605.0	619.3	630.2	639.8	643.8	644.0
155°	573.3	587.1	597.2	607.4	613.8	617.5	615.7
157.5°	557.9	569.4	577.3	584.6	589.9	591.5	591.5
160°	547.6	557.7	564.1	570.5	575.1	576.1	576.1
162.5°	538.0	546.6	551.6	558.0	561.2	562.1	561.3
165°	523.6	530.0	533.8	537.4	541.1	541.1	540.2
167.5°	510.6	515.0	518.3	519.9	522.0	521.8	520.7
170°	502.5	506.1	507.9	508.9	511.7	510.7	508.9
172.5°	495.1	498.0	499.2	500.1	501.4	500.4	499.3
175°	486.8	487.7	488.6	488.6	489.6	488.6	486.8
177.5°	480.8	481.5	481.5	481.5	481.5	480.8	479.3
180°	478.6	478.6	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)