

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: P331268

Luminaire Tested: **SA2XXDIP-C290D925U835-4F0-1E-UDD-A1**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331268  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER  
UPLIGHT 925 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

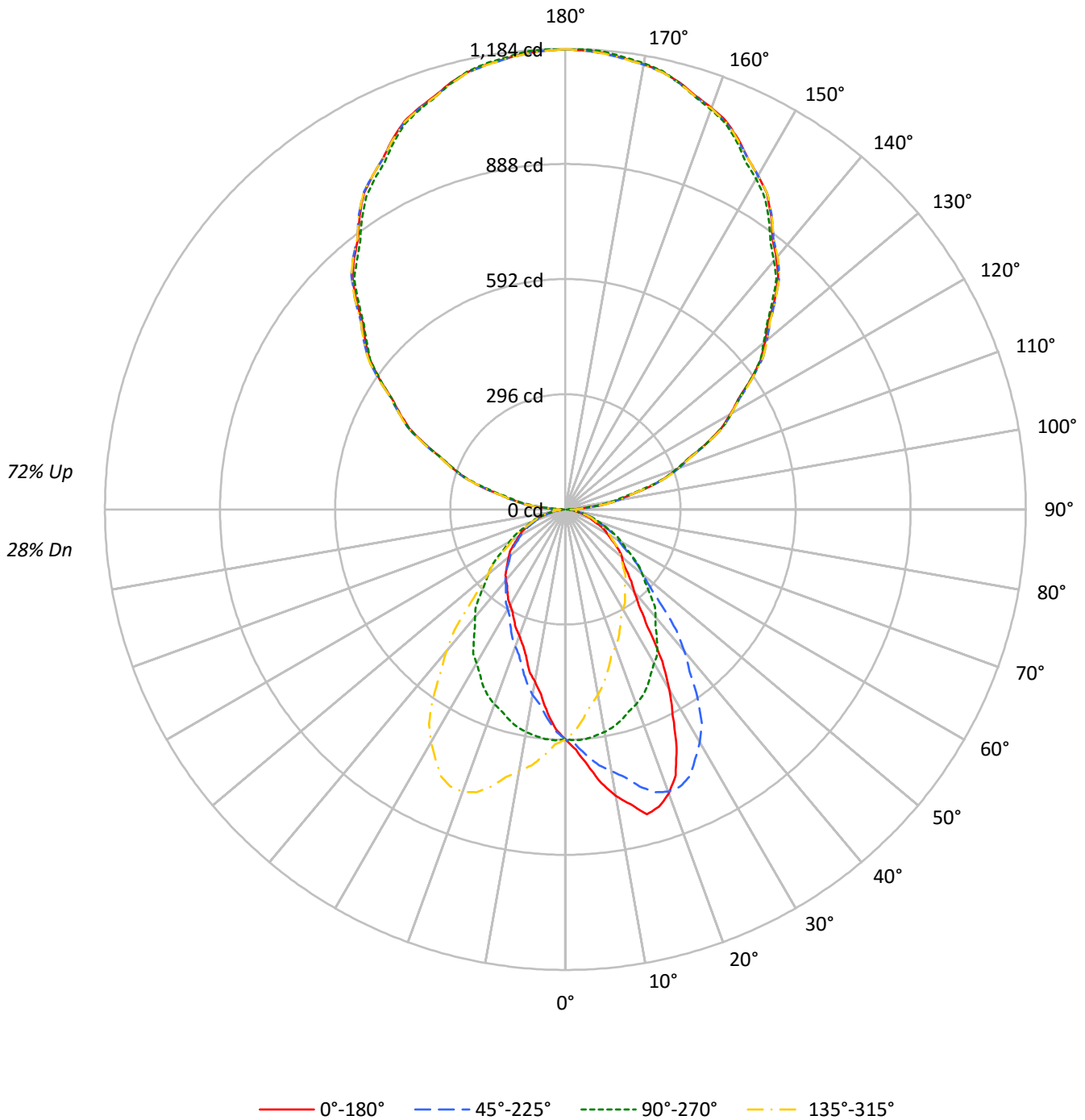
Lumens per Lamp: N/A  
Luminaire Lumens: 4615.5 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 37.3  
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31	24
2	85	78	72	67	76	70	65	61	55	52	49	41	39	38	29	28	27	21
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23	18
4	71	61	53	48	63	55	49	44	44	39	36	33	30	28	23	21	20	16
5	65	54	47	41	58	49	42	37	39	34	31	30	26	24	21	19	17	14
6	60	49	41	35	54	44	37	33	35	30	27	27	24	21	19	17	16	12
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14	11
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11	9
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	9544	9544	9544	9544
5°	10699	9606	8512	9606
10°	12260	9527	7366	9527
15°	13563	9352	6509	9352
20°	13357	9165	5933	9165
25°	12043	8915	5569	8915
30°	9952	8516	5302	8516
35°	7253	8099	5113	8099
40°	5794	7609	5008	7609
45°	5062	7040	4866	7040
50°	4760	6488	4770	6488
55°	4386	5928	4642	5928
60°	4020	5331	4447	5331
65°	3664	4798	4252	4798
70°	3323	4277	3970	4277
75°	2951	3699	3512	3699
80°	2538	3059	2827	3059
85°	2279	2279	1686	2279



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.3	1.2
10°-20°	163.7	3.5
20°-30°	237.5	5.1
30°-40°	250.6	5.4
40°-50°	221.9	4.8
50°-60°	177.1	3.8
60°-70°	120.4	2.6
70°-80°	61.7	1.3
80°-90°	19.6	0.4
90°-100°	74.9	1.6
100°-110°	232.7	5.0
110°-120°	397.8	8.6
120°-130°	523.2	11.3
130°-140°	587.2	12.7
140°-150°	575.7	12.5
150°-160°	482.9	10.5
160°-170°	320.3	6.9
170°-180°	111.9	2.4
0°-30°	457.5	9.9
0°-40°	708.1	15.3
0°-60°	1107.1	24.0
0°-90°	1308.8	28.4
90°-120°	705.5	15.3
90°-150°	2391.6	51.8
90°-180°	3307.0	71.7
0°-180°	4615.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	591	591	591	591	591	
5°	660	593	525	593	660	66
15°	811	560	389	560	811	224
25°	676	500	313	500	676	306
35°	368	411	259	411	368	239
45°	222	308	213	308	222	174
55°	156	211	165	211	156	140
65°	96	126	111	126	96	95
75°	47	59	56	59	47	51
85°	12	12	9	12	12	14
90°	34	1	34	1	34	15
95°	62	52	62	52	62	69
105°	222	215	222	215	222	233
115°	399	399	399	399	399	394
125°	583	581	583	581	583	520
135°	760	752	760	752	760	585
145°	922	912	922	912	922	576
155°	1051	1043	1051	1043	1051	484
165°	1136	1135	1136	1135	1136	320
175°	1177	1181	1177	1181	1177	112
180°	1183	1183	1183	1183	1183	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	618.3	618.5	618.9	616.0	615.6	615.6	613.1	610.9	608.3	604.9	605.3
5°	660.1	662.6	663.5	660.8	656.7	656.3	652.4	646.1	640.1	635.4	632.0
7.5°	710.0	711.0	708.8	705.2	702.2	696.7	689.5	682.5	672.6	663.6	656.9
10°	747.8	749.2	745.3	740.1	735.8	729.4	719.0	708.3	695.4	682.9	672.9
12.5°	776.5	779.9	774.9	774.3	766.9	758.1	745.7	740.3	722.1	704.7	693.9
15°	811.4	811.2	811.7	807.3	801.9	800.5	787.4	773.0	747.4	737.1	719.4
17.5°	801.3	804.8	806.4	806.3	806.2	805.3	801.1	792.1	779.2	762.6	742.2
20°	777.4	781.9	782.6	787.8	790.8	794.6	796.2	793.7	785.8	771.9	754.2
22.5°	740.3	741.6	743.7	751.8	758.2	767.9	772.9	781.4	778.3	771.5	756.7
25°	676.0	673.8	681.7	685.8	700.6	716.0	727.2	739.4	750.3	756.9	752.6
27.5°	598.9	595.5	607.4	618.3	630.2	647.0	664.3	684.8	701.8	723.2	730.5
30°	533.8	535.9	547.2	558.8	577.0	600.6	620.2	642.6	667.0	690.8	707.4
32.5°	463.7	471.5	478.7	496.5	512.5	538.8	567.5	595.6	625.9	653.0	678.7
35°	368.0	377.1	387.1	400.0	422.5	448.6	476.6	514.5	555.9	592.9	623.3
37.5°	309.8	308.3	314.0	323.4	341.6	362.7	394.9	432.3	481.0	524.5	567.5
40°	274.9	274.0	278.0	286.7	300.5	316.0	344.2	377.1	422.3	475.5	526.6
42.5°	250.9	251.4	253.7	259.8	269.3	282.0	303.1	331.1	372.5	422.6	477.5
45°	221.7	223.3	225.8	228.8	234.2	244.7	256.5	276.5	309.2	351.0	405.0
47.5°	200.7	200.8	203.3	205.9	209.1	215.0	224.7	237.2	260.3	294.3	340.8
50°	189.5	187.9	189.7	191.7	195.1	199.2	205.6	217.4	232.8	260.3	299.2
52.5°	175.6	175.7	177.3	178.1	181.1	185.2	191.0	199.2	213.2	234.7	266.6
55°	155.8	157.0	157.9	159.2	162.0	164.9	169.5	174.9	185.8	201.9	225.6
57.5°	137.2	137.6	138.5	141.1	142.8	145.5	149.8	154.8	161.9	173.8	191.6
60°	124.5	124.5	126.3	127.4	129.7	132.4	135.8	140.6	147.0	156.7	171.1
62.5°	112.9	112.7	113.4	115.3	117.0	119.5	122.9	127.0	133.0	141.7	153.4
65°	95.9	95.4	96.8	97.2	99.0	101.5	104.3	108.6	113.4	119.7	130.2
67.5°	79.5	80.1	80.8	81.6	82.6	85.3	87.1	90.1	94.2	99.5	106.5
70°	70.4	70.4	70.4	71.1	72.5	73.8	75.6	78.1	82.0	86.5	92.9
72.5°	60.2	61.0	61.7	61.3	63.0	63.8	66.0	67.4	71.1	74.0	79.6
75°	47.3	47.3	47.3	48.4	49.1	49.7	51.1	52.5	54.3	57.9	60.9
77.5°	35.3	35.2	35.4	35.7	36.4	37.2	37.6	38.8	40.5	42.2	44.7
80°	27.3	27.7	27.9	28.4	28.4	28.8	29.1	30.7	31.8	32.9	34.5
82.5°	21.1	21.2	21.2	21.3	21.5	21.8	22.4	22.9	23.3	24.2	25.4
85°	12.3	12.0	12.0	12.5	12.3	12.3	12.7	13.2	13.2	13.4	14.1
87.5°	11.5	11.5	11.6	11.4	11.3	11.5	11.6	11.5	11.8	12.1	11.3
90°	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0	34.5	34.9	30.0
92.5°	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9	31.8	31.7	30.6
95°	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9	63.9	63.9	63.4
97.5°	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4	107.4	107.4	106.5
100°	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7	137.7	137.7	137.1
102.5°	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8	170.6	170.5	169.6
105°	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4	220.0	219.5	219.1
107.5°	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0	273.8	273.6	273.6
110°	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4	310.4	310.4	310.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8	347.4	347.9	348.1
115°	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7	403.0	403.2	403.6
117.5°	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8	457.3	457.9	459.1
120°	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0	493.0	493.0	494.8
122.5°	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2	530.8	531.3	532.6
125°	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5	586.1	586.8	587.5
127.5°	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1	639.9	640.7	641.5
130°	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7	676.2	676.6	677.1
132.5°	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4	712.4	713.3	713.2
135°	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0	764.2	764.4	764.0
137.5°	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4	814.6	814.7	814.2
140°	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3	848.3	848.3	847.2
142.5°	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0	878.8	878.6	877.8
145°	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5	925.3	925.1	923.8
147.5°	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4	965.9	965.4	964.5
150°	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3	991.6	991.0	990.1
152.5°	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5	1015.4
155°	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1	1050.0	1048.8	1048.2
157.5°	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4	1079.9	1078.4	1078.0
160°	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4	1098.1	1096.7	1096.5
162.5°	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7	1114.2	1112.7	1112.5
165°	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8	1135.2	1133.7	1133.7
167.5°	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1	1152.6	1151.0	1151.1
170°	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7	1162.2	1160.6	1160.8
172.5°	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9	1169.4	1167.8	1168.0
175°	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7	1177.1	1175.6	1176.0
177.5°	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2	1180.5
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	606.5	605.1	604.2	600.9	598.0	595.1	594.2	594.5	590.5	586.7	585.1
5°	630.2	625.6	621.3	615.2	607.9	599.9	595.9	592.7	584.7	576.1	571.1
7.5°	651.3	644.8	636.5	625.0	614.4	601.9	593.9	586.9	575.3	563.1	555.6
10°	664.2	655.4	644.7	630.6	617.7	602.4	591.8	581.1	567.5	552.9	543.8
12.5°	675.3	663.4	652.9	634.8	619.5	600.4	587.8	572.7	558.4	541.1	532.2
15°	701.7	679.7	659.7	639.2	620.4	593.8	579.7	559.5	540.7	519.3	509.1
17.5°	722.1	697.3	665.9	639.9	617.9	588.4	567.8	543.6	521.3	496.9	483.0
20°	733.7	705.3	671.5	640.6	614.3	580.6	558.1	533.4	507.3	479.8	464.8
22.5°	740.6	710.8	677.3	637.9	607.0	574.3	546.0	518.8	492.4	462.7	447.0
25°	742.8	715.6	680.1	635.6	597.9	560.9	526.8	500.4	468.4	440.7	417.8
27.5°	732.0	712.5	678.4	631.3	587.4	544.1	506.1	476.3	442.5	412.4	389.3
30°	718.7	707.4	674.2	627.0	579.0	532.5	490.7	456.8	423.2	392.8	369.1
32.5°	698.2	695.8	666.6	620.8	570.1	517.8	474.5	440.3	403.0	373.1	350.6
35°	657.9	668.8	650.4	607.0	553.4	496.8	450.0	410.9	372.3	343.7	322.6
37.5°	603.8	630.9	626.1	586.8	530.7	474.0	422.3	381.5	344.7	315.8	295.1
40°	566.5	601.1	606.1	571.3	514.8	456.4	401.6	361.0	325.1	298.7	277.8
42.5°	526.6	566.9	580.6	552.8	497.3	437.8	383.1	341.0	305.4	279.8	261.3
45°	459.6	512.9	537.7	521.8	468.2	407.3	351.0	308.3	276.0	251.9	237.6
47.5°	396.9	455.2	488.5	482.9	435.8	375.5	319.8	278.8	247.4	228.2	215.4
50°	352.6	412.5	452.7	454.6	412.5	352.8	296.9	258.3	229.4	211.5	201.0
52.5°	314.0	371.3	415.1	424.8	386.5	329.2	276.4	237.9	212.5	196.0	186.7
55°	263.7	312.1	360.7	378.5	347.8	293.3	244.4	210.6	186.7	175.4	167.2
57.5°	219.3	259.6	304.5	324.1	305.2	258.5	212.7	183.3	164.0	154.0	147.7
60°	195.8	227.6	267.6	291.0	274.6	233.1	193.1	165.1	149.2	140.4	134.5
62.5°	174.0	202.2	236.0	257.4	248.5	209.3	173.5	148.8	135.1	126.8	122.5
65°	143.6	165.8	192.0	211.7	205.8	176.1	146.7	125.6	114.7	108.1	104.7
67.5°	118.2	134.3	152.4	169.7	165.0	143.9	120.4	103.9	95.8	90.1	88.0
70°	102.2	114.5	130.6	144.5	140.6	123.4	104.7	90.6	83.6	78.8	76.8
72.5°	87.0	97.0	109.4	120.7	118.1	103.7	88.2	77.6	72.1	67.7	66.1
75°	65.7	73.4	80.9	88.4	87.7	76.6	67.5	59.3	55.0	51.6	50.9
77.5°	48.5	52.8	57.9	62.3	61.1	54.7	47.6	42.9	39.8	37.5	37.1
80°	37.0	39.5	43.2	46.3	44.8	42.0	36.3	32.9	30.7	28.4	27.5
82.5°	26.9	29.3	31.5	33.3	32.0	29.5	26.0	23.7	22.3	20.8	20.4
85°	14.1	15.4	16.4	16.8	16.4	14.8	13.2	12.3	11.1	10.4	10.2
87.5°	10.5	9.5	8.5	8.1	7.1	6.5	5.3	4.2	4.5	4.9	5.1
90°	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0	3.7	6.3	9.0
92.5°	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8	19.7	21.7	23.6
95°	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9	54.1	56.3	58.5
97.5°	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8	96.8	98.7	100.7
100°	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7	128.5	130.3	132.1
102.5°	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3	161.7	163.1	164.5
105°	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6	215.2	215.9	216.6
107.5°	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2	270.2	271.2	272.2
110°	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4	305.7	307.0	308.4





TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7	344.0	345.4	346.7
115°	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2	400.5	401.8	403.2
117.5°	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5	457.2	459.0	460.8
120°	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	494.8	496.5	498.3
122.5°	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3	529.4	531.6	533.7
125°	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8	582.8	584.8	586.8
127.5°	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9	635.4	638.0	640.5
130°	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6	668.5	671.4	674.3
132.5°	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4	704.7	707.1	709.4
135°	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5	753.9	756.3	758.8
137.5°	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2	805.1	807.1	809.1
140°	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3	836.3	838.3	840.3
142.5°	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2	868.2	870.2	872.2
145°	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1	913.7	915.2	916.8
147.5°	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0	954.9	956.8	958.6
150°	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0	982.3	983.6	985.0
152.5°	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7	1007.1	1008.4	1009.7
155°	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9	1043.5	1044.2	1044.9
157.5°	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6	1075.0	1075.5	1075.9
160°	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8	1094.2	1094.6	1095.1
162.5°	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3	1111.4	1111.5	1111.6
165°	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7	1134.5	1134.2	1134.0
167.5°	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2	1153.6	1152.9	1152.2
170°	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6	1163.9	1163.3	1162.6
172.5°	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8	1171.1	1170.5	1169.8
175°	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6	1179.9	1179.2	1178.6
177.5°	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2	1183.6	1183.1	1182.6
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	583.3	582.2	578.4	576.4	573.1	570.0	568.0	568.9	569.6	569.3	568.7
5°	566.5	562.2	555.6	550.0	545.9	538.4	535.2	533.6	532.2	530.7	529.1
7.5°	546.6	539.8	530.4	522.3	514.7	505.3	500.0	496.9	493.6	490.0	486.8
10°	532.5	522.9	512.9	501.6	492.5	484.1	476.6	471.6	467.0	462.7	459.6
12.5°	517.6	506.6	494.2	478.7	468.7	456.6	455.5	446.7	439.6	436.9	433.2
15°	493.9	478.4	462.7	444.3	436.4	425.5	418.7	411.8	405.7	401.4	400.3
17.5°	466.9	446.9	431.3	418.1	405.1	393.9	387.6	382.2	377.1	371.4	370.6
20°	446.4	429.1	412.1	400.5	387.1	375.7	368.0	362.6	358.2	354.8	351.9
22.5°	426.9	408.0	392.4	379.8	366.6	357.4	351.3	346.0	342.4	338.7	335.9
25°	395.7	381.0	363.9	349.6	338.7	332.8	327.8	323.3	321.0	318.5	315.3
27.5°	368.4	352.0	336.1	325.0	315.4	310.2	306.6	303.5	301.4	299.9	298.1
30°	349.2	332.6	320.1	309.2	301.2	296.0	293.7	291.9	289.4	288.5	287.6
32.5°	330.6	315.7	305.0	295.5	288.0	284.5	282.5	280.8	278.9	278.0	276.1
35°	304.4	291.9	281.5	276.2	270.1	267.1	265.6	263.3	261.5	260.6	260.3
37.5°	279.7	268.9	262.0	255.3	252.7	250.9	248.7	247.2	246.6	246.5	246.2
40°	263.7	254.9	248.7	243.3	242.2	239.4	237.6	236.3	236.3	236.5	236.3
42.5°	249.2	241.2	235.8	231.1	229.8	228.2	226.3	226.3	226.6	227.4	226.6
45°	227.2	221.5	217.6	215.4	212.9	211.3	211.0	211.7	211.9	212.2	212.9
47.5°	206.9	203.1	199.6	197.1	196.0	195.8	195.5	196.7	197.8	198.2	199.2
50°	194.9	190.6	187.6	186.0	185.1	184.7	185.1	186.5	187.4	188.5	189.2
52.5°	181.5	178.4	176.4	175.1	174.8	175.1	175.1	176.7	178.1	178.6	178.9
55°	162.9	160.6	160.2	158.1	159.0	158.8	159.9	160.8	162.2	163.6	163.8
57.5°	144.3	142.5	141.3	141.5	141.8	142.8	143.7	145.3	146.7	148.2	148.3
60°	132.0	131.1	130.4	130.4	130.8	132.2	133.3	134.9	135.8	136.8	137.4
62.5°	120.7	119.8	119.1	119.5	120.7	121.5	122.8	123.7	124.6	125.5	125.8
65°	102.9	102.5	103.1	103.6	103.8	104.9	106.5	107.2	108.1	108.6	110.2
67.5°	86.5	86.6	86.5	87.1	88.5	88.7	90.2	91.8	92.0	92.9	93.9
70°	75.4	75.9	76.3	76.8	77.9	78.4	79.5	80.2	81.1	81.8	82.5
72.5°	65.2	65.3	65.8	65.7	66.7	67.6	68.6	69.3	70.2	71.1	71.7
75°	50.2	50.2	50.7	50.9	52.0	53.2	52.9	53.4	54.3	55.2	55.7
77.5°	36.7	36.2	36.7	36.9	37.3	38.2	38.4	39.0	40.1	39.8	40.3
80°	27.9	27.3	27.9	28.2	28.2	29.3	29.3	29.8	30.4	29.8	30.4
82.5°	19.9	19.6	20.1	20.2	20.5	20.6	20.9	21.0	21.7	21.4	21.7
85°	10.0	9.8	10.0	9.8	10.0	10.2	10.2	10.0	10.0	10.4	9.8
87.5°	5.4	6.0	6.8	7.8	8.6	9.3	9.1	9.0	8.9	8.4	8.4
90°	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0	33.6	33.2	33.0
92.5°	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9	32.0	32.1	32.2
95°	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9	63.9	63.9	63.6
97.5°	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4	107.4	107.4	107.4
100°	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7	137.7	137.7	137.6
102.5°	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8	171.0	171.2	171.1
105°	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4	220.9	221.3	221.5
107.5°	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0	274.2	274.3	273.9
110°	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.0



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8	346.3	345.8	345.2
115°	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7	402.5	402.3	401.8
117.5°	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8	456.3	455.7	455.1
120°	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0	493.0	493.0	492.7
122.5°	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2	529.7	529.2	528.7
125°	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5	584.8	584.1	583.7
127.5°	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1	638.3	637.5	636.7
130°	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7	675.3	674.8	674.2
132.5°	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4	710.4	709.4	708.6
135°	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0	763.8	763.5	763.1
137.5°	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4	814.2	814.0	813.5
140°	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3	848.3	848.3	847.8
142.5°	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0	879.1	879.3	879.0
145°	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5	925.8	926.0	925.7
147.5°	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4	966.9	967.4	967.2
150°	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3	993.0	993.6	993.6
152.5°	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9
155°	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1	1052.2	1053.3	1053.5
157.5°	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4	1082.9	1084.4	1084.6
160°	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4	1100.7	1102.1	1102.3
162.5°	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7	1117.2	1118.7	1119.0
165°	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8	1138.3	1139.9	1140.1
167.5°	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1	1155.7	1157.2	1157.4
170°	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7	1165.3	1166.8	1166.9
172.5°	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9	1172.5	1174.0	1174.1
175°	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7	1180.2	1181.8	1181.9
177.5°	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	566.9	566.5	566.5	564.9	566.5	566.5	566.9	568.7	569.3	569.6	568.9
5°	525.9	525.2	524.1	525.2	524.1	525.2	525.9	529.1	530.7	532.2	533.6
7.5°	485.3	482.6	482.2	479.5	482.2	482.6	485.3	486.8	490.0	493.6	496.9
10°	455.7	453.9	453.6	449.3	453.6	453.9	455.7	459.6	462.7	467.0	471.6
12.5°	433.2	428.8	429.7	427.2	429.7	428.8	433.2	433.2	436.9	439.6	446.7
15°	394.1	394.1	393.2	389.4	393.2	394.1	394.1	400.3	401.4	405.7	411.8
17.5°	366.1	365.6	363.5	364.6	363.5	365.6	366.1	370.6	371.4	377.1	382.2
20°	349.4	348.0	345.3	345.3	345.3	348.0	349.4	351.9	354.8	358.2	362.6
22.5°	333.6	333.5	330.6	331.5	330.6	333.5	333.6	335.9	338.7	342.4	346.0
25°	315.1	313.3	311.9	312.6	311.9	313.3	315.1	315.3	318.5	321.0	323.3
27.5°	297.5	296.5	296.4	294.6	296.4	296.5	297.5	298.1	299.9	301.4	303.5
30°	287.4	285.1	285.5	284.4	285.5	285.1	287.4	287.6	288.5	289.4	291.9
32.5°	275.7	274.9	274.5	273.5	274.5	274.9	275.7	276.1	278.0	278.9	280.8
35°	259.9	260.1	259.0	259.4	259.0	260.1	259.9	260.3	260.6	261.5	263.3
37.5°	246.0	246.7	246.2	246.3	246.2	246.7	246.0	246.2	246.5	246.6	247.2
40°	236.9	236.9	236.9	237.6	236.9	236.9	236.9	236.3	236.5	236.3	236.3
42.5°	228.2	227.8	227.5	227.4	227.5	227.8	228.2	226.6	227.4	226.6	226.3
45°	213.3	214.0	214.2	213.1	214.2	214.0	213.3	212.9	212.2	211.9	211.7
47.5°	199.8	199.9	199.8	200.8	199.8	199.9	199.8	199.2	198.2	197.8	196.7
50°	190.4	189.9	190.4	189.9	190.4	189.9	190.4	189.2	188.5	187.4	186.5
52.5°	180.4	180.5	180.2	180.1	180.2	180.5	180.4	178.9	178.6	178.1	176.7
55°	164.7	165.1	164.9	164.9	164.9	165.1	164.7	163.8	163.6	162.2	160.8
57.5°	148.5	148.9	149.2	148.2	149.2	148.9	148.5	148.3	148.2	146.7	145.3
60°	137.2	138.3	138.1	137.7	138.1	138.3	137.2	137.4	136.8	135.8	134.9
62.5°	126.8	127.3	127.2	127.1	127.2	127.3	126.8	125.8	125.5	124.6	123.7
65°	110.9	111.3	110.6	111.3	110.6	111.3	110.9	110.2	108.6	108.1	107.2
67.5°	93.6	93.8	94.3	94.6	94.3	93.8	93.6	93.9	92.9	92.0	91.8
70°	82.9	82.7	83.4	84.1	83.4	82.7	82.9	82.5	81.8	81.1	80.2
72.5°	71.6	72.1	71.9	72.4	71.9	72.1	71.6	71.7	71.1	70.2	69.3
75°	55.2	55.9	55.7	56.3	55.7	55.9	55.2	55.7	55.2	54.3	53.4
77.5°	39.9	40.0	39.9	40.3	39.9	40.0	39.9	40.3	39.8	40.1	39.0
80°	30.4	30.0	29.5	30.4	29.5	30.0	30.4	30.4	29.8	30.4	29.8
82.5°	21.2	21.4	21.0	21.0	21.0	21.4	21.2	21.7	21.4	21.7	21.0
85°	9.8	9.5	9.1	9.1	9.1	9.5	9.8	9.8	10.4	10.0	10.0
87.5°	8.5	8.3	8.4	8.2	8.4	8.3	8.5	8.4	8.4	8.9	9.0
90°	33.3	33.5	33.7	33.9	33.7	33.5	33.3	33.0	33.2	33.6	34.0
92.5°	32.2	32.2	32.3	32.3	32.3	32.2	32.2	32.2	32.1	32.0	31.9
95°	63.2	62.8	62.3	61.9	62.3	62.8	63.2	63.6	63.9	63.9	63.9
97.5°	107.3	107.3	107.2	107.2	107.2	107.3	107.3	107.4	107.4	107.4	107.4
100°	137.4	137.2	136.9	136.7	136.9	137.2	137.4	137.6	137.7	137.7	137.7
102.5°	170.9	170.7	170.5	170.3	170.5	170.7	170.9	171.1	171.2	171.0	170.8
105°	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.5	221.3	220.9	220.4
107.5°	272.9	271.9	270.9	269.8	270.9	271.9	272.9	273.9	274.3	274.2	274.0
110°	309.4	308.7	308.0	307.4	308.0	308.7	309.4	310.0	310.4	310.4	310.4



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	344.8	344.3	343.8	343.3	343.8	344.3	344.8	345.2	345.8	346.3	346.8
115°	401.2	400.5	399.8	399.2	399.8	400.5	401.2	401.8	402.3	402.5	402.7
117.5°	454.5	453.8	453.1	452.5	453.1	453.8	454.5	455.1	455.7	456.3	456.8
120°	492.0	491.3	490.7	490.0	490.7	491.3	492.0	492.7	493.0	493.0	493.0
122.5°	528.2	527.7	527.2	526.7	527.2	527.7	528.2	528.7	529.2	529.7	530.2
125°	583.5	583.2	583.0	582.8	583.0	583.2	583.5	583.7	584.1	584.8	585.5
127.5°	636.0	635.3	634.6	633.9	634.6	635.3	636.0	636.7	637.5	638.3	639.1
130°	673.3	672.4	671.5	670.6	671.5	672.4	673.3	674.2	674.8	675.3	675.7
132.5°	707.9	707.2	706.5	705.8	706.5	707.2	707.9	708.6	709.4	710.4	711.4
135°	762.4	761.8	761.1	760.4	761.1	761.8	762.4	763.1	763.5	763.8	764.0
137.5°	812.6	811.7	810.8	809.9	810.8	811.7	812.6	813.5	814.0	814.2	814.4
140°	846.9	846.0	845.2	844.3	845.2	846.0	846.9	847.8	848.3	848.3	848.3
142.5°	878.1	877.2	876.3	875.4	876.3	877.2	878.1	879.0	879.3	879.1	879.0
145°	924.8	923.9	923.0	922.1	923.0	923.9	924.8	925.7	926.0	925.8	925.5
147.5°	966.4	965.5	964.7	963.8	964.7	965.5	966.4	967.2	967.4	966.9	966.4
150°	993.0	992.3	991.6	991.0	991.6	992.3	993.0	993.6	993.6	993.0	992.3
152.5°	1019.0	1018.2	1017.4	1016.5	1017.4	1018.2	1019.0	1019.9	1019.9	1019.0	1018.2
155°	1052.8	1052.2	1051.5	1050.8	1051.5	1052.2	1052.8	1053.5	1053.3	1052.2	1051.1
157.5°	1083.6	1082.5	1081.4	1080.4	1081.4	1082.5	1083.6	1084.6	1084.4	1082.9	1081.4
160°	1101.4	1100.5	1099.6	1098.7	1099.6	1100.5	1101.4	1102.3	1102.1	1100.7	1099.4
162.5°	1117.9	1116.8	1115.8	1114.7	1115.8	1116.8	1117.9	1119.0	1118.7	1117.2	1115.7
165°	1139.0	1137.9	1136.8	1135.7	1136.8	1137.9	1139.0	1140.1	1139.9	1138.3	1136.8
167.5°	1156.3	1155.1	1154.0	1152.8	1154.0	1155.1	1156.3	1157.4	1157.2	1155.7	1154.1
170°	1165.6	1164.3	1162.9	1161.6	1162.9	1164.3	1165.6	1166.9	1166.8	1165.3	1163.7
172.5°	1172.8	1171.5	1170.1	1168.8	1170.1	1171.5	1172.8	1174.1	1174.0	1172.5	1170.9
175°	1180.6	1179.2	1177.9	1176.6	1177.9	1179.2	1180.6	1181.9	1181.8	1180.2	1178.7
177.5°	1183.4	1182.3	1181.2	1180.2	1181.2	1182.3	1183.4	1184.4	1184.4	1183.4	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	568.0	570.0	573.1	576.4	578.4	582.2	583.3	585.1	586.7	590.5	594.5
5°	535.2	538.4	545.9	550.0	555.6	562.2	566.5	571.1	576.1	584.7	592.7
7.5°	500.0	505.3	514.7	522.3	530.4	539.8	546.6	555.6	563.1	575.3	586.9
10°	476.6	484.1	492.5	501.6	512.9	522.9	532.5	543.8	552.9	567.5	581.1
12.5°	455.5	456.6	468.7	478.7	494.2	506.6	517.6	532.2	541.1	558.4	572.7
15°	418.7	425.5	436.4	444.3	462.7	478.4	493.9	509.1	519.3	540.7	559.5
17.5°	387.6	393.9	405.1	418.1	431.3	446.9	466.9	483.0	496.9	521.3	543.6
20°	368.0	375.7	387.1	400.5	412.1	429.1	446.4	464.8	479.8	507.3	533.4
22.5°	351.3	357.4	366.6	379.8	392.4	408.0	426.9	447.0	462.7	492.4	518.8
25°	327.8	332.8	338.7	349.6	363.9	381.0	395.7	417.8	440.7	468.4	500.4
27.5°	306.6	310.2	315.4	325.0	336.1	352.0	368.4	389.3	412.4	442.5	476.3
30°	293.7	296.0	301.2	309.2	320.1	332.6	349.2	369.1	392.8	423.2	456.8
32.5°	282.5	284.5	288.0	295.5	305.0	315.7	330.6	350.6	373.1	403.0	440.3
35°	265.6	267.1	270.1	276.2	281.5	291.9	304.4	322.6	343.7	372.3	410.9
37.5°	248.7	250.9	252.7	255.3	262.0	268.9	279.7	295.1	315.8	344.7	381.5
40°	237.6	239.4	242.2	243.3	248.7	254.9	263.7	277.8	298.7	325.1	361.0
42.5°	226.3	228.2	229.8	231.1	235.8	241.2	249.2	261.3	279.8	305.4	341.0
45°	211.0	211.3	212.9	215.4	217.6	221.5	227.2	237.6	251.9	276.0	308.3
47.5°	195.5	195.8	196.0	197.1	199.6	203.1	206.9	215.4	228.2	247.4	278.8
50°	185.1	184.7	185.1	186.0	187.6	190.6	194.9	201.0	211.5	229.4	258.3
52.5°	175.1	175.1	174.8	175.1	176.4	178.4	181.5	186.7	196.0	212.5	237.9
55°	159.9	158.8	159.0	158.1	160.2	160.6	162.9	167.2	175.4	186.7	210.6
57.5°	143.7	142.8	141.8	141.5	141.3	142.5	144.3	147.7	154.0	164.0	183.3
60°	133.3	132.2	130.8	130.4	130.4	131.1	132.0	134.5	140.4	149.2	165.1
62.5°	122.8	121.5	120.7	119.5	119.1	119.8	120.7	122.5	126.8	135.1	148.8
65°	106.5	104.9	103.8	103.6	103.1	102.5	102.9	104.7	108.1	114.7	125.6
67.5°	90.2	88.7	88.5	87.1	86.5	86.6	86.5	88.0	90.1	95.8	103.9
70°	79.5	78.4	77.9	76.8	76.3	75.9	75.4	76.8	78.8	83.6	90.6
72.5°	68.6	67.6	66.7	65.7	65.8	65.3	65.2	66.1	67.7	72.1	77.6
75°	52.9	53.2	52.0	50.9	50.7	50.2	50.2	50.9	51.6	55.0	59.3
77.5°	38.4	38.2	37.3	36.9	36.7	36.2	36.7	37.1	37.5	39.8	42.9
80°	29.3	29.3	28.2	28.2	27.9	27.3	27.9	27.5	28.4	30.7	32.9
82.5°	20.9	20.6	20.5	20.2	20.1	19.6	19.9	20.4	20.8	22.3	23.7
85°	10.2	10.2	10.0	9.8	10.0	9.8	10.0	10.2	10.4	11.1	12.3
87.5°	9.1	9.3	8.6	7.8	6.8	6.0	5.4	5.1	4.9	4.5	4.2
90°	34.5	34.9	30.0	25.2	20.3	15.4	11.6	9.0	6.3	3.7	1.0
92.5°	31.8	31.7	30.6	29.4	28.3	27.1	25.6	23.6	21.7	19.7	17.8
95°	63.9	63.9	63.4	63.0	62.5	62.1	60.8	58.5	56.3	54.1	51.9
97.5°	107.4	107.4	106.5	105.7	104.9	104.0	102.6	100.7	98.7	96.8	94.8
100°	137.7	137.7	137.1	136.4	135.7	135.1	133.8	132.1	130.3	128.5	126.7
102.5°	170.6	170.5	169.6	168.8	167.9	167.1	165.9	164.5	163.1	161.7	160.3
105°	220.0	219.5	219.1	218.7	218.2	217.8	217.2	216.6	215.9	215.2	214.6
107.5°	273.8	273.6	273.6	273.6	273.6	273.6	273.2	272.2	271.2	270.2	269.2
110°	310.4	310.4	310.4	310.4	310.4	310.4	309.7	308.4	307.0	305.7	304.4



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	347.4	347.9	348.1	348.2	348.4	348.6	348.0	346.7	345.4	344.0	342.7
115°	403.0	403.2	403.6	404.1	404.5	404.9	404.5	403.2	401.8	400.5	399.2
117.5°	457.3	457.9	459.1	460.3	461.6	462.8	462.6	460.8	459.0	457.2	455.5
120°	493.0	493.0	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0
122.5°	530.8	531.3	532.6	533.8	535.0	536.3	535.8	533.7	531.6	529.4	527.3
125°	586.1	586.8	587.5	588.1	588.8	589.5	588.8	586.8	584.8	582.8	580.8
127.5°	639.9	640.7	641.5	642.3	643.1	643.9	643.0	640.5	638.0	635.4	632.9
130°	676.2	676.6	677.1	677.5	677.9	678.4	677.2	674.3	671.4	668.5	665.6
132.5°	712.4	713.3	713.2	713.2	713.1	713.0	711.8	709.4	707.1	704.7	702.4
135°	764.2	764.4	764.0	763.5	763.1	762.7	761.2	758.8	756.3	753.9	751.5
137.5°	814.6	814.7	814.2	813.6	813.0	812.4	811.1	809.1	807.1	805.1	803.2
140°	848.3	848.3	847.2	846.0	844.9	843.8	842.3	840.3	838.3	836.3	834.3
142.5°	878.8	878.6	877.8	877.1	876.3	875.6	874.2	872.2	870.2	868.2	866.2
145°	925.3	925.1	923.8	922.4	921.1	919.8	918.3	916.8	915.2	913.7	912.1
147.5°	965.9	965.4	964.5	963.6	962.8	961.9	960.5	958.6	956.8	954.9	953.0
150°	991.6	991.0	990.1	989.2	988.3	987.4	986.3	985.0	983.6	982.3	981.0
152.5°	1017.4	1016.5	1015.4	1014.4	1013.3	1012.3	1011.1	1009.7	1008.4	1007.1	1005.7
155°	1050.0	1048.8	1048.2	1047.5	1046.9	1046.2	1045.5	1044.9	1044.2	1043.5	1042.9
157.5°	1079.9	1078.4	1078.0	1077.6	1077.2	1076.8	1076.4	1075.9	1075.5	1075.0	1074.6
160°	1098.1	1096.7	1096.5	1096.3	1096.1	1095.9	1095.5	1095.1	1094.6	1094.2	1093.8
162.5°	1114.2	1112.7	1112.5	1112.3	1112.1	1111.8	1111.7	1111.6	1111.5	1111.4	1111.3
165°	1135.2	1133.7	1133.7	1133.7	1133.7	1133.7	1133.8	1134.0	1134.2	1134.5	1134.7
167.5°	1152.6	1151.0	1151.1	1151.1	1151.2	1151.2	1151.6	1152.2	1152.9	1153.6	1154.2
170°	1162.2	1160.6	1160.8	1161.1	1161.3	1161.5	1161.9	1162.6	1163.3	1163.9	1164.6
172.5°	1169.4	1167.8	1168.0	1168.2	1168.5	1168.7	1169.1	1169.8	1170.5	1171.1	1171.8
175°	1177.1	1175.6	1176.0	1176.5	1176.9	1177.4	1177.9	1178.6	1179.2	1179.9	1180.6
177.5°	1181.2	1180.2	1180.5	1180.9	1181.2	1181.6	1182.0	1182.6	1183.1	1183.6	1184.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



TEST NUMBER: P331268

CATALOG NUMBER: SA2XXDIP-C290D925U835-4F0-1E-UDD-A1

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	594.2	595.1	598.0	600.9	604.2	605.1	606.5	605.3	604.9	608.3	610.9
5°	595.9	599.9	607.9	615.2	621.3	625.6	630.2	632.0	635.4	640.1	646.1
7.5°	593.9	601.9	614.4	625.0	636.5	644.8	651.3	656.9	663.6	672.6	682.5
10°	591.8	602.4	617.7	630.6	644.7	655.4	664.2	672.9	682.9	695.4	708.3
12.5°	587.8	600.4	619.5	634.8	652.9	663.4	675.3	693.9	704.7	722.1	740.3
15°	579.7	593.8	620.4	639.2	659.7	679.7	701.7	719.4	737.1	747.4	773.0
17.5°	567.8	588.4	617.9	639.9	665.9	697.3	722.1	742.2	762.6	779.2	792.1
20°	558.1	580.6	614.3	640.6	671.5	705.3	733.7	754.2	771.9	785.8	793.7
22.5°	546.0	574.3	607.0	637.9	677.3	710.8	740.6	756.7	771.5	778.3	781.4
25°	526.8	560.9	597.9	635.6	680.1	715.6	742.8	752.6	756.9	750.3	739.4
27.5°	506.1	544.1	587.4	631.3	678.4	712.5	732.0	730.5	723.2	701.8	684.8
30°	490.7	532.5	579.0	627.0	674.2	707.4	718.7	707.4	690.8	667.0	642.6
32.5°	474.5	517.8	570.1	620.8	666.6	695.8	698.2	678.7	653.0	625.9	595.6
35°	450.0	496.8	553.4	607.0	650.4	668.8	657.9	623.3	592.9	555.9	514.5
37.5°	422.3	474.0	530.7	586.8	626.1	630.9	603.8	567.5	524.5	481.0	432.3
40°	401.6	456.4	514.8	571.3	606.1	601.1	566.5	526.6	475.5	422.3	377.1
42.5°	383.1	437.8	497.3	552.8	580.6	566.9	526.6	477.5	422.6	372.5	331.1
45°	351.0	407.3	468.2	521.8	537.7	512.9	459.6	405.0	351.0	309.2	276.5
47.5°	319.8	375.5	435.8	482.9	488.5	455.2	396.9	340.8	294.3	260.3	237.2
50°	296.9	352.8	412.5	454.6	452.7	412.5	352.6	299.2	260.3	232.8	217.4
52.5°	276.4	329.2	386.5	424.8	415.1	371.3	314.0	266.6	234.7	213.2	199.2
55°	244.4	293.3	347.8	378.5	360.7	312.1	263.7	225.6	201.9	185.8	174.9
57.5°	212.7	258.5	305.2	324.1	304.5	259.6	219.3	191.6	173.8	161.9	154.8
60°	193.1	233.1	274.6	291.0	267.6	227.6	195.8	171.1	156.7	147.0	140.6
62.5°	173.5	209.3	248.5	257.4	236.0	202.2	174.0	153.4	141.7	133.0	127.0
65°	146.7	176.1	205.8	211.7	192.0	165.8	143.6	130.2	119.7	113.4	108.6
67.5°	120.4	143.9	165.0	169.7	152.4	134.3	118.2	106.5	99.5	94.2	90.1
70°	104.7	123.4	140.6	144.5	130.6	114.5	102.2	92.9	86.5	82.0	78.1
72.5°	88.2	103.7	118.1	120.7	109.4	97.0	87.0	79.6	74.0	71.1	67.4
75°	67.5	76.6	87.7	88.4	80.9	73.4	65.7	60.9	57.9	54.3	52.5
77.5°	47.6	54.7	61.1	62.3	57.9	52.8	48.5	44.7	42.2	40.5	38.8
80°	36.3	42.0	44.8	46.3	43.2	39.5	37.0	34.5	32.9	31.8	30.7
82.5°	26.0	29.5	32.0	33.3	31.5	29.3	26.9	25.4	24.2	23.3	22.9
85°	13.2	14.8	16.4	16.8	16.4	15.4	14.1	14.1	13.4	13.2	13.2
87.5°	5.3	6.5	7.1	8.1	8.5	9.5	10.5	11.3	12.1	11.8	11.5
90°	3.7	6.3	9.0	11.6	15.4	20.3	25.2	30.0	34.9	34.5	34.0
92.5°	19.7	21.7	23.6	25.6	27.1	28.3	29.4	30.6	31.7	31.8	31.9
95°	54.1	56.3	58.5	60.8	62.1	62.5	63.0	63.4	63.9	63.9	63.9
97.5°	96.8	98.7	100.7	102.6	104.0	104.9	105.7	106.5	107.4	107.4	107.4
100°	128.5	130.3	132.1	133.8	135.1	135.7	136.4	137.1	137.7	137.7	137.7
102.5°	161.7	163.1	164.5	165.9	167.1	167.9	168.8	169.6	170.5	170.6	170.8
105°	215.2	215.9	216.6	217.2	217.8	218.2	218.7	219.1	219.5	220.0	220.4
107.5°	270.2	271.2	272.2	273.2	273.6	273.6	273.6	273.6	273.6	273.8	274.0
110°	305.7	307.0	308.4	309.7	310.4	310.4	310.4	310.4	310.4	310.4	310.4





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**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	344.0	345.4	346.7	348.0	348.6	348.4	348.2	348.1	347.9	347.4	346.8
115°	400.5	401.8	403.2	404.5	404.9	404.5	404.1	403.6	403.2	403.0	402.7
117.5°	457.2	459.0	460.8	462.6	462.8	461.6	460.3	459.1	457.9	457.3	456.8
120°	494.8	496.5	498.3	500.1	500.1	498.3	496.5	494.8	493.0	493.0	493.0
122.5°	529.4	531.6	533.7	535.8	536.3	535.0	533.8	532.6	531.3	530.8	530.2
125°	582.8	584.8	586.8	588.8	589.5	588.8	588.1	587.5	586.8	586.1	585.5
127.5°	635.4	638.0	640.5	643.0	643.9	643.1	642.3	641.5	640.7	639.9	639.1
130°	668.5	671.4	674.3	677.2	678.4	677.9	677.5	677.1	676.6	676.2	675.7
132.5°	704.7	707.1	709.4	711.8	713.0	713.1	713.2	713.2	713.3	712.4	711.4
135°	753.9	756.3	758.8	761.2	762.7	763.1	763.5	764.0	764.4	764.2	764.0
137.5°	805.1	807.1	809.1	811.1	812.4	813.0	813.6	814.2	814.7	814.6	814.4
140°	836.3	838.3	840.3	842.3	843.8	844.9	846.0	847.2	848.3	848.3	848.3
142.5°	868.2	870.2	872.2	874.2	875.6	876.3	877.1	877.8	878.6	878.8	879.0
145°	913.7	915.2	916.8	918.3	919.8	921.1	922.4	923.8	925.1	925.3	925.5
147.5°	954.9	956.8	958.6	960.5	961.9	962.8	963.6	964.5	965.4	965.9	966.4
150°	982.3	983.6	985.0	986.3	987.4	988.3	989.2	990.1	991.0	991.6	992.3
152.5°	1007.1	1008.4	1009.7	1011.1	1012.3	1013.3	1014.4	1015.4	1016.5	1017.4	1018.2
155°	1043.5	1044.2	1044.9	1045.5	1046.2	1046.9	1047.5	1048.2	1048.8	1050.0	1051.1
157.5°	1075.0	1075.5	1075.9	1076.4	1076.8	1077.2	1077.6	1078.0	1078.4	1079.9	1081.4
160°	1094.2	1094.6	1095.1	1095.5	1095.9	1096.1	1096.3	1096.5	1096.7	1098.1	1099.4
162.5°	1111.4	1111.5	1111.6	1111.7	1111.8	1112.1	1112.3	1112.5	1112.7	1114.2	1115.7
165°	1134.5	1134.2	1134.0	1133.8	1133.7	1133.7	1133.7	1133.7	1133.7	1135.2	1136.8
167.5°	1153.6	1152.9	1152.2	1151.6	1151.2	1151.2	1151.1	1151.1	1151.0	1152.6	1154.1
170°	1163.9	1163.3	1162.6	1161.9	1161.5	1161.3	1161.1	1160.8	1160.6	1162.2	1163.7
172.5°	1171.1	1170.5	1169.8	1169.1	1168.7	1168.5	1168.2	1168.0	1167.8	1169.4	1170.9
175°	1179.9	1179.2	1178.6	1177.9	1177.4	1176.9	1176.5	1176.0	1175.6	1177.1	1178.7
177.5°	1183.6	1183.1	1182.6	1182.0	1181.6	1181.2	1180.9	1180.5	1180.2	1181.2	1182.3
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	591.1	591.1	591.1	591.1	591.1	591.1	591.1
2.5°	613.1	615.6	615.6	616.0	618.9	618.5	618.3
5°	652.4	656.3	656.7	660.8	663.5	662.6	660.1
7.5°	689.5	696.7	702.2	705.2	708.8	711.0	710.0
10°	719.0	729.4	735.8	740.1	745.3	749.2	747.8
12.5°	745.7	758.1	766.9	774.3	774.9	779.9	776.5
15°	787.4	800.5	801.9	807.3	811.7	811.2	811.4
17.5°	801.1	805.3	806.2	806.3	806.4	804.8	801.3
20°	796.2	794.6	790.8	787.8	782.6	781.9	777.4
22.5°	772.9	767.9	758.2	751.8	743.7	741.6	740.3
25°	727.2	716.0	700.6	685.8	681.7	673.8	676.0
27.5°	664.3	647.0	630.2	618.3	607.4	595.5	598.9
30°	620.2	600.6	577.0	558.8	547.2	535.9	533.8
32.5°	567.5	538.8	512.5	496.5	478.7	471.5	463.7
35°	476.6	448.6	422.5	400.0	387.1	377.1	368.0
37.5°	394.9	362.7	341.6	323.4	314.0	308.3	309.8
40°	344.2	316.0	300.5	286.7	278.0	274.0	274.9
42.5°	303.1	282.0	269.3	259.8	253.7	251.4	250.9
45°	256.5	244.7	234.2	228.8	225.8	223.3	221.7
47.5°	224.7	215.0	209.1	205.9	203.3	200.8	200.7
50°	205.6	199.2	195.1	191.7	189.7	187.9	189.5
52.5°	191.0	185.2	181.1	178.1	177.3	175.7	175.6
55°	169.5	164.9	162.0	159.2	157.9	157.0	155.8
57.5°	149.8	145.5	142.8	141.1	138.5	137.6	137.2
60°	135.8	132.4	129.7	127.4	126.3	124.5	124.5
62.5°	122.9	119.5	117.0	115.3	113.4	112.7	112.9
65°	104.3	101.5	99.0	97.2	96.8	95.4	95.9
67.5°	87.1	85.3	82.6	81.6	80.8	80.1	79.5
70°	75.6	73.8	72.5	71.1	70.4	70.4	70.4
72.5°	66.0	63.8	63.0	61.3	61.7	61.0	60.2
75°	51.1	49.7	49.1	48.4	47.3	47.3	47.3
77.5°	37.6	37.2	36.4	35.7	35.4	35.2	35.3
80°	29.1	28.8	28.4	28.4	27.9	27.7	27.3
82.5°	22.4	21.8	21.5	21.3	21.2	21.2	21.1
85°	12.7	12.3	12.3	12.5	12.0	12.0	12.3
87.5°	11.6	11.5	11.3	11.4	11.6	11.5	11.5
90°	33.6	33.2	33.0	33.3	33.5	33.7	33.9
92.5°	32.0	32.1	32.2	32.2	32.2	32.3	32.3
95°	63.9	63.9	63.6	63.2	62.8	62.3	61.9
97.5°	107.4	107.4	107.4	107.3	107.3	107.2	107.2
100°	137.7	137.7	137.6	137.4	137.2	136.9	136.7
102.5°	171.0	171.2	171.1	170.9	170.7	170.5	170.3
105°	220.9	221.3	221.5	221.5	221.5	221.5	221.5
107.5°	274.2	274.3	273.9	272.9	271.9	270.9	269.8
110°	310.4	310.4	310.0	309.4	308.7	308.0	307.4



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	346.3	345.8	345.2	344.8	344.3	343.8	343.3
115°	402.5	402.3	401.8	401.2	400.5	399.8	399.2
117.5°	456.3	455.7	455.1	454.5	453.8	453.1	452.5
120°	493.0	493.0	492.7	492.0	491.3	490.7	490.0
122.5°	529.7	529.2	528.7	528.2	527.7	527.2	526.7
125°	584.8	584.1	583.7	583.5	583.2	583.0	582.8
127.5°	638.3	637.5	636.7	636.0	635.3	634.6	633.9
130°	675.3	674.8	674.2	673.3	672.4	671.5	670.6
132.5°	710.4	709.4	708.6	707.9	707.2	706.5	705.8
135°	763.8	763.5	763.1	762.4	761.8	761.1	760.4
137.5°	814.2	814.0	813.5	812.6	811.7	810.8	809.9
140°	848.3	848.3	847.8	846.9	846.0	845.2	844.3
142.5°	879.1	879.3	879.0	878.1	877.2	876.3	875.4
145°	925.8	926.0	925.7	924.8	923.9	923.0	922.1
147.5°	966.9	967.4	967.2	966.4	965.5	964.7	963.8
150°	993.0	993.6	993.6	993.0	992.3	991.6	991.0
152.5°	1019.0	1019.9	1019.9	1019.0	1018.2	1017.4	1016.5
155°	1052.2	1053.3	1053.5	1052.8	1052.2	1051.5	1050.8
157.5°	1082.9	1084.4	1084.6	1083.6	1082.5	1081.4	1080.4
160°	1100.7	1102.1	1102.3	1101.4	1100.5	1099.6	1098.7
162.5°	1117.2	1118.7	1119.0	1117.9	1116.8	1115.8	1114.7
165°	1138.3	1139.9	1140.1	1139.0	1137.9	1136.8	1135.7
167.5°	1155.7	1157.2	1157.4	1156.3	1155.1	1154.0	1152.8
170°	1165.3	1166.8	1166.9	1165.6	1164.3	1162.9	1161.6
172.5°	1172.5	1174.0	1174.1	1172.8	1171.5	1170.1	1168.8
175°	1180.2	1181.8	1181.9	1180.6	1179.2	1177.9	1176.6
177.5°	1183.4	1184.4	1184.4	1183.4	1182.3	1181.2	1180.2
180°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6

(END OF REPORT)