

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: P331267-935

Luminaire Tested: **SA2XXDIP-C290D925U935-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331267-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-C290D925U935-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER
UPLIGHT 925 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

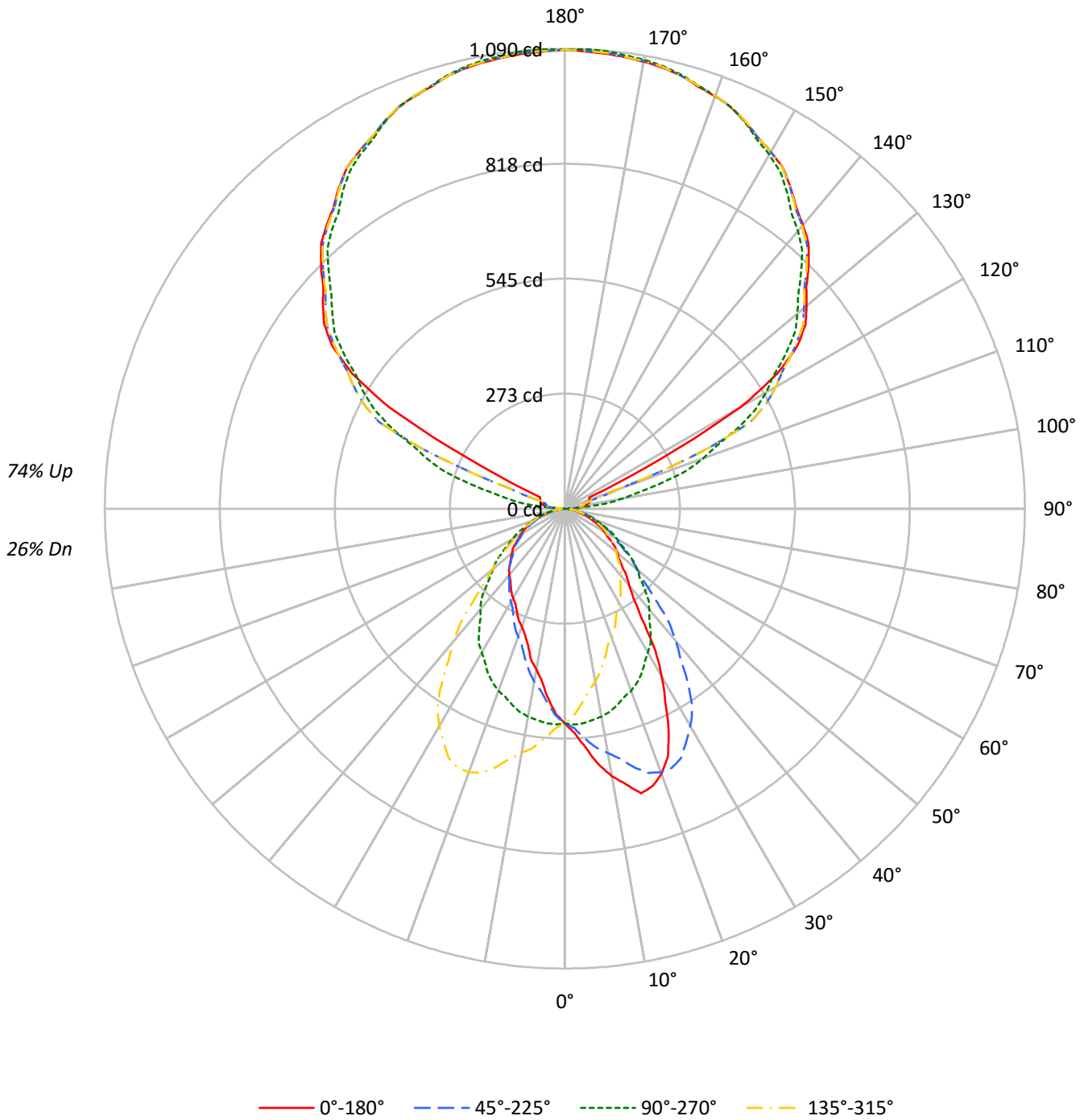
Lumens per Lamp: N/A
Luminaire Lumens: 4310.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34	26				
1	93	89	85	82	83	79	76	73	62	60	58	45	44	43	31	30	29	22				
2	85	78	72	67	75	69	65	61	54	51	48	40	38	36	27	26	25	19				
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17				
4	71	61	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19	14				
5	65	54	46	41	58	48	42	37	38	34	30	29	26	23	20	18	16	13				
6	60	48	41	35	53	43	37	32	34	30	26	26	23	20	18	16	15	11				
7	55	44	36	31	49	39	33	28	31	26	23	24	20	18	16	15	13	10				
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	15	13	12	9				
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11	8				
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10	8				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8217	8217	8217	8217
5°	9211	8271	7329	8271
10°	10557	8202	6342	8202
15°	11677	8052	5605	8052
20°	11500	7892	5108	7892
25°	10368	7675	4794	7675
30°	8569	7333	4566	7333
35°	6244	6974	4401	6974
40°	4989	6551	4312	6551
45°	4359	6060	4190	6060
50°	4099	5586	4107	5586
55°	3775	5103	3997	5103
60°	3462	4592	3830	4592
65°	3156	4130	3660	4130
70°	2861	3682	3418	3682
75°	2539	3188	3026	3188
80°	2185	2631	2436	2631
85°	1964	1964	1445	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	140.9	3.3
20°-30°	204.5	4.7
30°-40°	215.8	5.0
40°-50°	191.1	4.4
50°-60°	152.5	3.5
60°-70°	103.6	2.4
70°-80°	53.1	1.2
80°-90°	15.5	0.4
90°-100°	36.2	0.8
100°-110°	132.9	3.1
110°-120°	355.3	8.2
120°-130°	586.6	13.6
130°-140°	623.8	14.5
140°-150°	579.8	13.5
150°-160°	466.2	10.8
160°-170°	300.4	7.0
170°-180°	103.4	2.4
0°-30°	393.9	9.1
0°-40°	609.7	14.1
0°-60°	953.2	22.1
0°-90°	1125.5	26.1
90°-120°	524.5	12.2
90°-150°	2314.7	53.7
90°-180°	3185.0	73.9
0°-180°	4310.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	509	509	509	509	509	
5°	568	510	452	510	568	57
15°	699	482	335	482	699	193
25°	582	431	269	431	582	263
35°	317	354	223	354	317	206
45°	191	265	184	265	191	150
55°	134	181	142	181	134	120
65°	83	108	96	108	83	82
75°	41	51	48	51	41	43
85°	11	11	8	11	11	12
90°	21	1	21	1	21	10
95°	34	51	34	51	34	32
105°	60	239	60	239	60	62
115°	64	452	64	452	64	162
125°	672	639	672	639	672	582
135°	817	791	817	791	817	630
145°	932	918	932	918	932	583
155°	1011	1010	1011	1010	1011	467
165°	1062	1065	1062	1065	1062	300
175°	1083	1089	1083	1089	1083	103
180°	1087	1087	1087	1087	1087	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	532.4	532.5	532.9	530.4	530.0	530.0	527.9	526.0	523.7	520.8	521.2
5°	568.3	570.5	571.3	568.9	565.4	565.1	561.7	556.3	551.1	547.1	544.2
7.5°	611.3	612.2	610.3	607.2	604.6	599.9	593.7	587.6	579.1	571.4	565.6
10°	643.9	645.1	641.7	637.2	633.5	628.0	619.1	609.8	598.7	588.0	579.4
12.5°	668.6	671.5	667.2	666.7	660.3	652.7	642.0	637.4	621.7	606.7	597.4
15°	698.6	698.4	698.9	695.1	690.4	689.2	678.0	665.6	643.5	634.6	619.4
17.5°	689.9	692.9	694.3	694.2	694.1	693.4	689.7	682.0	670.9	656.6	639.0
20°	669.3	673.2	673.8	678.3	680.9	684.2	685.5	683.4	676.6	664.6	649.4
22.5°	637.4	638.5	640.3	647.3	652.8	661.2	665.5	672.8	670.1	664.3	651.5
25°	582.0	580.1	586.9	590.5	603.2	616.5	626.1	636.6	646.0	651.7	648.0
27.5°	515.7	512.7	523.0	532.4	542.6	557.1	572.0	589.6	604.2	622.7	629.0
30°	459.6	461.4	471.1	481.1	496.8	517.1	534.0	553.3	574.3	594.8	609.1
32.5°	399.2	406.0	412.2	427.5	441.3	463.9	488.6	512.8	538.9	562.2	584.4
35°	316.8	324.7	333.3	344.4	363.8	386.2	410.4	443.0	478.6	510.5	536.7
37.5°	266.7	265.4	270.4	278.4	294.1	312.3	340.0	372.2	414.1	451.6	488.6
40°	236.7	235.9	239.4	246.8	258.7	272.1	296.4	324.7	363.6	409.4	453.4
42.5°	216.0	216.5	218.4	223.7	231.9	242.8	261.0	285.1	320.7	363.9	411.1
45°	190.9	192.3	194.4	197.0	201.6	210.7	220.8	238.1	266.2	302.2	348.7
47.5°	172.8	172.9	175.0	177.3	180.0	185.1	193.5	204.2	224.1	253.4	293.4
50°	163.2	161.8	163.3	165.1	168.0	171.5	177.0	187.2	200.4	224.1	257.6
52.5°	151.2	151.3	152.7	153.3	155.9	159.5	164.5	171.5	183.6	202.1	229.5
55°	134.1	135.2	136.0	137.1	139.5	142.0	145.9	150.6	160.0	173.8	194.2
57.5°	118.1	118.5	119.2	121.5	123.0	125.3	129.0	133.3	139.4	149.6	165.0
60°	107.2	107.2	108.7	109.7	111.7	114.0	116.9	121.1	126.6	134.9	147.3
62.5°	97.2	97.0	97.6	99.3	100.7	102.9	105.8	109.3	114.5	122.0	132.1
65°	82.6	82.1	83.3	83.7	85.2	87.4	89.8	93.5	97.6	103.1	112.1
67.5°	68.4	69.0	69.6	70.3	71.1	73.4	75.0	77.6	81.1	85.7	91.7
70°	60.6	60.6	60.6	61.2	62.4	63.5	65.1	67.2	70.6	74.5	80.0
72.5°	51.8	52.5	53.1	52.8	54.2	54.9	56.8	58.0	61.2	63.7	68.5
75°	40.7	40.7	40.7	41.7	42.3	42.8	44.0	45.2	46.8	49.9	52.4
77.5°	30.4	30.3	30.5	30.7	31.3	32.0	32.4	33.4	34.9	36.3	38.5
80°	23.5	23.8	24.0	24.5	24.5	24.8	25.1	26.4	27.4	28.3	29.7
82.5°	18.2	18.3	18.3	18.3	18.5	18.8	19.3	19.7	20.1	20.8	21.9
85°	10.6	10.3	10.3	10.8	10.6	10.6	10.9	11.4	11.4	11.5	12.1
87.5°	8.4	8.3	8.4	8.1	8.0	8.1	7.9	7.6	7.6	7.5	7.4
90°	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5	16.6	15.8	14.3
92.5°	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1	18.7	18.3	17.6
95°	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4	31.5	30.7	29.4
97.5°	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4	41.8	41.1	38.2
100°	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6	46.2	44.9	41.8
102.5°	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7	47.9	46.1	40.9
105°	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8	49.9	48.0	45.7
107.5°	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2	65.2	67.2	70.3
110°	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6	120.1	137.6	188.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6	283.4	347.1	359.6
115°	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4	404.2	485.2	480.8
117.5°	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3	517.8	537.4	534.4
120°	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6	578.5	576.4	573.3
122.5°	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0	614.8	613.5	610.1
125°	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9	665.7	664.4	661.2
127.5°	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9	712.1	710.4	707.9
130°	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8	741.8	739.9	738.0
132.5°	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8	771.2	769.5	767.6
135°	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2	812.4	810.7	809.2
137.5°	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6	850.9	849.3	847.5
140°	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5	876.0	874.4	872.5
142.5°	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5	899.1	897.7	895.5
145°	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7	931.4	930.2	927.3
147.5°	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7	959.8	958.9	956.0
150°	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9	976.9	975.9	973.1
152.5°	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7	992.6	991.6	988.9
155°	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9	1013.8	1012.8	1010.7
157.5°	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8	1031.7	1030.4	1029.0
160°	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2	1042.2	1041.1	1040.1
162.5°	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9	1051.7	1050.6	1049.6
165°	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4	1061.9
167.5°	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7	1073.5	1072.3	1071.8
170°	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8	1078.5	1077.3	1076.9
172.5°	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5	1082.3	1081.1	1080.7
175°	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6	1086.4	1085.1	1084.8
177.5°	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0	1087.1	1086.1	1086.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	522.2	521.0	520.2	517.4	514.9	512.4	511.6	511.9	508.4	505.1	503.8
5°	542.6	538.6	534.9	529.7	523.4	516.5	513.1	510.3	503.4	496.0	491.7
7.5°	560.8	555.2	548.0	538.1	529.0	518.2	511.3	505.3	495.3	484.8	478.4
10°	571.9	564.3	555.1	542.9	531.8	518.7	509.5	500.3	488.6	476.0	468.2
12.5°	581.4	571.2	562.1	546.6	533.4	516.9	506.1	493.1	480.8	465.9	458.2
15°	604.2	585.2	568.0	550.4	534.2	511.3	499.1	481.7	465.5	447.1	438.3
17.5°	621.7	600.4	573.3	551.0	532.0	506.6	488.9	468.0	448.8	427.8	415.9
20°	631.7	607.3	578.2	551.6	528.9	499.9	480.5	459.3	436.8	413.1	400.2
22.5°	637.7	612.0	583.2	549.2	522.6	494.5	470.1	446.7	424.0	398.4	384.9
25°	639.6	616.1	585.6	547.3	514.8	482.9	453.6	430.8	403.3	379.4	359.7
27.5°	630.3	613.5	584.1	543.5	505.8	468.5	435.8	410.1	381.0	355.1	335.2
30°	618.8	609.1	580.5	539.8	498.5	458.5	422.5	393.3	364.4	338.2	317.8
32.5°	601.2	599.1	573.9	534.5	490.9	445.8	408.5	379.1	347.0	321.2	301.9
35°	566.5	575.8	560.0	522.6	476.5	427.7	387.4	353.8	320.6	295.9	277.8
37.5°	519.9	543.2	539.1	505.2	456.9	408.1	363.6	328.5	296.8	271.9	254.1
40°	487.8	517.5	521.9	491.9	443.2	393.0	345.8	310.8	279.9	257.2	239.2
42.5°	453.4	488.1	499.9	476.0	428.2	376.9	329.8	293.6	262.9	240.9	225.0
45°	395.7	441.6	463.0	449.3	403.1	350.7	302.2	265.4	237.6	216.9	204.6
47.5°	341.7	391.9	420.6	415.8	375.2	323.3	275.3	240.0	213.0	196.5	185.5
50°	303.6	355.2	389.8	391.4	355.2	303.8	255.6	222.4	197.5	182.1	173.1
52.5°	270.4	319.7	357.4	365.8	332.8	283.4	238.0	204.8	183.0	168.8	160.7
55°	227.0	268.7	310.6	325.9	299.5	252.5	210.4	181.3	160.7	151.0	144.0
57.5°	188.8	223.5	262.2	279.1	262.8	222.6	183.1	157.8	141.2	132.6	127.2
60°	168.6	196.0	230.4	250.6	236.4	200.7	166.3	142.2	128.5	120.9	115.8
62.5°	149.8	174.1	203.2	221.6	214.0	180.2	149.4	128.1	116.3	109.2	105.5
65°	123.6	142.8	165.3	182.3	177.2	151.6	126.3	108.1	98.8	93.1	90.1
67.5°	101.8	115.6	131.2	146.1	142.1	123.9	103.7	89.5	82.5	77.6	75.8
70°	88.0	98.6	112.4	124.4	121.1	106.2	90.1	78.0	72.0	67.8	66.1
72.5°	74.9	83.5	94.2	103.9	101.7	89.3	75.9	66.8	62.1	58.3	56.9
75°	56.6	63.2	69.7	76.1	75.5	66.0	58.1	51.1	47.4	44.4	43.8
77.5°	41.8	45.5	49.9	53.6	52.6	47.1	41.0	36.9	34.3	32.3	31.9
80°	31.9	34.0	37.2	39.9	38.6	36.2	31.3	28.3	26.4	24.5	23.7
82.5°	23.2	25.2	27.1	28.7	27.6	25.4	22.4	20.4	19.2	17.9	17.6
85°	12.1	13.3	14.1	14.5	14.1	12.7	11.4	10.6	9.6	9.0	8.8
87.5°	7.3	7.0	6.7	6.7	5.9	5.4	4.5	3.6	3.8	4.0	4.1
90°	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8	2.7	4.6	6.5
92.5°	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8	15.7	15.5	15.3
95°	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1	45.4	39.6	33.8
97.5°	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4	85.2	69.0	52.7
100°	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2	115.2	91.3	67.3
102.5°	95.7	120.6	145.5	160.4	165.5	170.6	175.6	180.7	175.6	170.6	165.5
105°	143.4	191.1	238.8	260.0	254.8	249.5	244.3	239.0	244.3	249.5	254.8
107.5°	181.6	238.8	296.0	322.5	318.2	314.0	309.8	305.6	309.8	314.0	318.2
110°	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4	352.1	355.7	359.4



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6	391.8	395.1	398.4
115°	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1	455.1	458.1	461.1
117.5°	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9	512.2	515.6	518.9
120°	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4	553.0	555.7	558.3
122.5°	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7	588.4	591.2	593.9
125°	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3	641.5	643.9	646.1
127.5°	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9	690.4	692.9	695.4
130°	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8	721.5	724.3	727.1
132.5°	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2	752.5	754.9	757.3
135°	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1	793.8	796.7	799.4
137.5°	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4	834.4	836.4	838.3
140°	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5	860.9	862.3	863.7
142.5°	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1	883.4	884.7	885.9
145°	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7	917.5	917.3	917.1
147.5°	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6	948.0	947.4	946.7
150°	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8	967.6	966.3	965.1
152.5°	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8	984.4	983.0	981.7
155°	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5	1008.9	1007.3	1005.7
157.5°	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8	1028.5	1027.2	1025.8
160°	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1040.1	1039.1	1037.9
162.5°	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2	1050.2	1049.1	1048.0
165°	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7	1063.7	1062.6	1061.5
167.5°	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8	1073.8	1072.7	1071.6
170°	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5	1079.3	1078.3	1077.3
172.5°	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2	1083.1	1082.1	1081.1
175°	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1	1087.9	1086.7	1085.4
177.5°	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9	1088.9	1088.0	1086.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	502.2	501.3	498.0	496.3	493.4	490.8	489.0	489.8	490.4	490.2	489.7
5°	487.8	484.1	478.4	473.6	470.0	463.6	460.8	459.4	458.2	456.9	455.6
7.5°	470.6	464.8	456.7	449.7	443.2	435.1	430.5	427.8	425.0	421.9	419.1
10°	458.5	450.2	441.6	431.9	424.0	416.8	410.4	406.0	402.1	398.4	395.7
12.5°	445.7	436.2	425.5	412.2	403.6	393.1	392.2	384.6	378.5	376.2	373.0
15°	425.2	411.9	398.4	382.5	375.7	366.4	360.5	354.6	349.3	345.6	344.7
17.5°	402.0	384.8	371.3	360.0	348.8	339.1	333.7	329.1	324.7	319.8	319.1
20°	384.4	369.5	354.8	344.8	333.3	323.5	316.8	312.2	308.4	305.5	303.0
22.5°	367.6	351.3	337.9	327.0	315.6	307.7	302.5	297.9	294.8	291.6	289.2
25°	340.7	328.0	313.3	301.0	291.6	286.5	282.2	278.4	276.4	274.2	271.5
27.5°	317.2	303.1	289.4	279.8	271.6	267.1	264.0	261.3	259.5	258.2	256.7
30°	300.7	286.4	275.6	266.2	259.3	254.9	252.9	251.3	249.2	248.4	247.6
32.5°	284.6	271.8	262.6	254.4	248.0	245.0	243.2	241.8	240.1	239.4	237.7
35°	262.1	251.3	242.4	237.8	232.6	230.0	228.7	226.7	225.2	224.4	224.1
37.5°	240.8	231.5	225.6	219.8	217.6	216.0	214.1	212.8	212.3	212.2	212.0
40°	227.0	219.5	214.1	209.5	208.5	206.1	204.6	203.5	203.5	203.6	203.5
42.5°	214.6	207.7	203.0	199.0	197.9	196.5	194.8	194.8	195.1	195.8	195.1
45°	195.6	190.7	187.4	185.5	183.3	181.9	181.7	182.3	182.4	182.7	183.3
47.5°	178.1	174.9	171.9	169.7	168.8	168.6	168.3	169.4	170.3	170.7	171.5
50°	167.8	164.1	161.5	160.1	159.4	159.0	159.4	160.6	161.4	162.3	162.9
52.5°	156.3	153.6	151.9	150.8	150.5	150.8	150.8	152.1	153.3	153.8	154.0
55°	140.3	138.3	137.9	136.1	136.9	136.7	137.7	138.4	139.7	140.9	141.0
57.5°	124.2	122.7	121.7	121.8	122.1	123.0	123.7	125.1	126.3	127.6	127.7
60°	113.7	112.9	112.3	112.3	112.6	113.8	114.8	116.1	116.9	117.8	118.3
62.5°	103.9	103.1	102.5	102.9	103.9	104.6	105.7	106.5	107.3	108.1	108.3
65°	88.6	88.3	88.8	89.2	89.4	90.3	91.7	92.3	93.1	93.5	94.9
67.5°	74.5	74.6	74.5	75.0	76.2	76.4	77.7	79.0	79.2	80.0	80.8
70°	64.9	65.3	65.7	66.1	67.1	67.5	68.4	69.1	69.8	70.4	71.0
72.5°	56.1	56.2	56.7	56.6	57.4	58.2	59.1	59.7	60.4	61.2	61.7
75°	43.2	43.2	43.7	43.8	44.8	45.8	45.5	46.0	46.8	47.5	48.0
77.5°	31.6	31.2	31.6	31.8	32.1	32.9	33.1	33.6	34.5	34.3	34.7
80°	24.0	23.5	24.0	24.3	24.3	25.2	25.2	25.7	26.2	25.7	26.2
82.5°	17.1	16.9	17.3	17.4	17.7	17.7	18.0	18.1	18.7	18.4	18.7
85°	8.6	8.4	8.6	8.4	8.6	8.8	8.8	8.6	8.6	9.0	8.4
87.5°	4.4	4.6	4.6	4.9	5.1	5.2	5.2	5.3	5.5	5.4	5.5
90°	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5	18.3	19.2	19.8
92.5°	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1	19.6	20.1	20.4
95°	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4	33.3	34.2	34.5
97.5°	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4	43.1	43.8	44.3
100°	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6	49.0	50.5	51.3
102.5°	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7	51.6	53.4	54.5
105°	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8	53.7	55.6	57.0
107.5°	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2	61.3	59.3	58.7
110°	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6	85.2	67.7	59.3



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6	155.8	92.1	60.5
115°	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4	242.5	161.5	114.8
117.5°	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3	478.7	459.1	428.6
120°	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6	582.7	584.8	574.0
122.5°	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0	617.3	618.5	616.9
125°	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9	668.1	669.3	670.2
127.5°	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9	715.7	717.6	718.4
130°	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8	745.7	747.6	748.6
132.5°	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8	774.5	776.1	776.8
135°	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2	816.0	817.7	818.4
137.5°	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6	854.4	856.1	856.7
140°	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5	879.2	880.7	881.1
142.5°	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5	902.0	903.4	903.7
145°	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7	933.9	935.1	935.3
147.5°	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7	961.6	962.5	962.6
150°	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9	979.0	980.1	980.2
152.5°	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7	994.7	995.7	995.7
155°	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9	1016.0	1017.0	1016.8
157.5°	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8	1034.0	1035.2	1035.1
160°	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2	1044.3	1045.3	1045.3
162.5°	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9	1054.1	1055.3	1055.2
165°	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2
167.5°	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7	1075.9	1077.2	1076.9
170°	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8	1081.0	1082.2	1082.0
172.5°	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5	1084.8	1086.0	1085.8
175°	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6	1088.8	1090.0	1089.8
177.5°	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0	1089.1	1090.0	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331267-935
 CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	488.1	487.8	487.8	486.4	487.8	487.8	488.1	489.7	490.2	490.4	489.8
5°	452.8	452.2	451.3	452.2	451.3	452.2	452.8	455.6	456.9	458.2	459.4
7.5°	417.8	415.5	415.2	412.8	415.2	415.5	417.8	419.1	421.9	425.0	427.8
10°	392.4	390.8	390.5	386.8	390.5	390.8	392.4	395.7	398.4	402.1	406.0
12.5°	373.0	369.2	370.0	367.8	370.0	369.2	373.0	373.0	376.2	378.5	384.6
15°	339.3	339.3	338.5	335.3	338.5	339.3	339.3	344.7	345.6	349.3	354.6
17.5°	315.2	314.8	313.0	313.9	313.0	314.8	315.2	319.1	319.8	324.7	329.1
20°	300.8	299.6	297.3	297.3	297.3	299.6	300.8	303.0	305.5	308.4	312.2
22.5°	287.2	287.1	284.6	285.4	284.6	287.1	287.2	289.2	291.6	294.8	297.9
25°	271.3	269.8	268.5	269.1	268.5	269.8	271.3	271.5	274.2	276.4	278.4
27.5°	256.1	255.3	255.2	253.7	255.2	255.3	256.1	256.7	258.2	259.5	261.3
30°	247.5	245.5	245.8	244.9	245.8	245.5	247.5	247.6	248.4	249.2	251.3
32.5°	237.4	236.7	236.3	235.5	236.3	236.7	237.4	237.7	239.4	240.1	241.8
35°	223.8	223.9	223.0	223.3	223.0	223.9	223.8	224.1	224.4	225.2	226.7
37.5°	211.8	212.4	212.0	212.1	212.0	212.4	211.8	212.0	212.2	212.3	212.8
40°	204.0	204.0	204.0	204.6	204.0	204.0	204.0	203.5	203.6	203.5	203.5
42.5°	196.5	196.1	195.9	195.8	195.9	196.1	196.5	195.1	195.8	195.1	194.8
45°	183.7	184.3	184.4	183.5	184.4	184.3	183.7	183.3	182.7	182.4	182.3
47.5°	172.0	172.1	172.0	172.9	172.0	172.1	172.0	171.5	170.7	170.3	169.4
50°	163.9	163.5	163.9	163.5	163.9	163.5	163.9	162.9	162.3	161.4	160.6
52.5°	155.3	155.4	155.2	155.1	155.2	155.4	155.3	154.0	153.8	153.3	152.1
55°	141.8	142.2	142.0	142.0	142.0	142.2	141.8	141.0	140.9	139.7	138.4
57.5°	127.9	128.2	128.5	127.6	128.5	128.2	127.9	127.7	127.6	126.3	125.1
60°	118.1	119.1	118.9	118.6	118.9	119.1	118.1	118.3	117.8	116.9	116.1
62.5°	109.2	109.6	109.5	109.4	109.5	109.6	109.2	108.3	108.1	107.3	106.5
65°	95.5	95.8	95.2	95.8	95.2	95.8	95.5	94.9	93.5	93.1	92.3
67.5°	80.6	80.8	81.2	81.5	81.2	80.8	80.6	80.8	80.0	79.2	79.0
70°	71.4	71.2	71.8	72.4	71.8	71.2	71.4	71.0	70.4	69.8	69.1
72.5°	61.6	62.1	61.9	62.3	61.9	62.1	61.6	61.7	61.2	60.4	59.7
75°	47.5	48.1	48.0	48.5	48.0	48.1	47.5	48.0	47.5	46.8	46.0
77.5°	34.4	34.4	34.4	34.7	34.4	34.4	34.4	34.7	34.3	34.5	33.6
80°	26.2	25.8	25.4	26.2	25.4	25.8	26.2	26.2	25.7	26.2	25.7
82.5°	18.3	18.4	18.1	18.1	18.1	18.4	18.3	18.7	18.4	18.7	18.1
85°	8.4	8.2	7.8	7.8	7.8	8.2	8.4	8.4	9.0	8.6	8.6
87.5°	5.6	5.5	5.6	5.5	5.6	5.5	5.6	5.5	5.4	5.5	5.3
90°	20.1	20.5	20.9	21.3	20.9	20.5	20.1	19.8	19.2	18.3	17.5
92.5°	20.6	20.8	21.0	21.3	21.0	20.8	20.6	20.4	20.1	19.6	19.1
95°	34.4	34.2	34.0	33.8	34.0	34.2	34.4	34.5	34.2	33.3	32.4
97.5°	44.5	44.7	44.9	45.1	44.9	44.7	44.5	44.3	43.8	43.1	42.4
100°	51.7	52.0	52.3	52.7	52.3	52.0	51.7	51.3	50.5	49.0	47.6
102.5°	55.0	55.4	56.0	56.5	56.0	55.4	55.0	54.5	53.4	51.6	49.7
105°	57.7	58.4	59.1	59.8	59.1	58.4	57.7	57.0	55.6	53.7	51.8
107.5°	59.4	60.1	60.8	61.5	60.8	60.1	59.4	58.7	59.3	61.3	63.2
110°	60.0	60.7	61.4	62.2	61.4	60.7	60.0	59.3	67.7	85.2	102.6



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	61.0	61.6	62.2	62.8	62.2	61.6	61.0	60.5	92.1	155.8	219.6
115°	102.2	89.6	77.1	64.5	77.1	89.6	102.2	114.8	161.5	242.5	323.4
117.5°	387.3	345.9	304.6	263.3	304.6	345.9	387.3	428.6	459.1	478.7	498.3
120°	550.4	526.8	503.3	479.7	503.3	526.8	550.4	574.0	584.8	582.7	580.6
122.5°	612.3	607.7	603.1	598.6	603.1	607.7	612.3	616.9	618.5	617.3	616.0
125°	670.7	671.2	671.8	672.4	671.8	671.2	670.7	670.2	669.3	668.1	666.9
127.5°	718.6	718.7	718.8	718.8	718.8	718.7	718.6	718.4	717.6	715.7	713.9
130°	748.4	748.1	748.0	747.8	748.0	748.1	748.4	748.6	747.6	745.7	743.8
132.5°	776.6	776.4	776.3	776.1	776.3	776.4	776.6	776.8	776.1	774.5	772.8
135°	818.0	817.7	817.3	817.0	817.3	817.7	818.0	818.4	817.7	816.0	814.2
137.5°	856.1	855.5	854.9	854.3	854.9	855.5	856.1	856.7	856.1	854.4	852.6
140°	880.2	879.3	878.5	877.5	878.5	879.3	880.2	881.1	880.7	879.2	877.5
142.5°	902.8	902.0	901.1	900.2	901.1	902.0	902.8	903.7	903.4	902.0	900.5
145°	934.4	933.6	932.7	931.9	932.7	933.6	934.4	935.3	935.1	933.9	932.7
147.5°	961.8	961.1	960.4	959.7	960.4	961.1	961.8	962.6	962.5	961.6	960.7
150°	979.3	978.4	977.5	976.6	977.5	978.4	979.3	980.2	980.1	979.0	977.9
152.5°	994.5	993.4	992.3	991.1	992.3	993.4	994.5	995.7	995.7	994.7	993.7
155°	1015.5	1014.0	1012.6	1011.2	1012.6	1014.0	1015.5	1016.8	1017.0	1016.0	1014.9
157.5°	1033.7	1032.3	1031.0	1029.7	1031.0	1032.3	1033.7	1035.1	1035.2	1034.0	1032.8
160°	1044.0	1042.8	1041.6	1040.3	1041.6	1042.8	1044.0	1045.3	1045.3	1044.3	1043.2
162.5°	1053.7	1052.1	1050.7	1049.1	1050.7	1052.1	1053.7	1055.2	1055.3	1054.1	1052.9
165°	1066.0	1064.8	1063.6	1062.4	1063.6	1064.8	1066.0	1067.2	1067.2	1066.0	1064.8
167.5°	1075.4	1073.8	1072.3	1070.7	1072.3	1073.8	1075.4	1076.9	1077.2	1075.9	1074.7
170°	1080.5	1078.8	1077.3	1075.7	1077.3	1078.8	1080.5	1082.0	1082.2	1081.0	1079.8
172.5°	1084.2	1082.6	1081.1	1079.5	1081.1	1082.6	1084.2	1085.8	1086.0	1084.8	1083.5
175°	1088.0	1086.3	1084.5	1082.8	1084.5	1086.3	1088.0	1089.8	1090.0	1088.8	1087.6
177.5°	1088.6	1087.4	1086.1	1084.9	1086.1	1087.4	1088.6	1089.9	1090.0	1089.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331267-935
 CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	489.0	490.8	493.4	496.3	498.0	501.3	502.2	503.8	505.1	508.4	511.9
5°	460.8	463.6	470.0	473.6	478.4	484.1	487.8	491.7	496.0	503.4	510.3
7.5°	430.5	435.1	443.2	449.7	456.7	464.8	470.6	478.4	484.8	495.3	505.3
10°	410.4	416.8	424.0	431.9	441.6	450.2	458.5	468.2	476.0	488.6	500.3
12.5°	392.2	393.1	403.6	412.2	425.5	436.2	445.7	458.2	465.9	480.8	493.1
15°	360.5	366.4	375.7	382.5	398.4	411.9	425.2	438.3	447.1	465.5	481.7
17.5°	333.7	339.1	348.8	360.0	371.3	384.8	402.0	415.9	427.8	448.8	468.0
20°	316.8	323.5	333.3	344.8	354.8	369.5	384.4	400.2	413.1	436.8	459.3
22.5°	302.5	307.7	315.6	327.0	337.9	351.3	367.6	384.9	398.4	424.0	446.7
25°	282.2	286.5	291.6	301.0	313.3	328.0	340.7	359.7	379.4	403.3	430.8
27.5°	264.0	267.1	271.6	279.8	289.4	303.1	317.2	335.2	355.1	381.0	410.1
30°	252.9	254.9	259.3	266.2	275.6	286.4	300.7	317.8	338.2	364.4	393.3
32.5°	243.2	245.0	248.0	254.4	262.6	271.8	284.6	301.9	321.2	347.0	379.1
35°	228.7	230.0	232.6	237.8	242.4	251.3	262.1	277.8	295.9	320.6	353.8
37.5°	214.1	216.0	217.6	219.8	225.6	231.5	240.8	254.1	271.9	296.8	328.5
40°	204.6	206.1	208.5	209.5	214.1	219.5	227.0	239.2	257.2	279.9	310.8
42.5°	194.8	196.5	197.9	199.0	203.0	207.7	214.6	225.0	240.9	262.9	293.6
45°	181.7	181.9	183.3	185.5	187.4	190.7	195.6	204.6	216.9	237.6	265.4
47.5°	168.3	168.6	168.8	169.7	171.9	174.9	178.1	185.5	196.5	213.0	240.0
50°	159.4	159.0	159.4	160.1	161.5	164.1	167.8	173.1	182.1	197.5	222.4
52.5°	150.8	150.8	150.5	150.8	151.9	153.6	156.3	160.7	168.8	183.0	204.8
55°	137.7	136.7	136.9	136.1	137.9	138.3	140.3	144.0	151.0	160.7	181.3
57.5°	123.7	123.0	122.1	121.8	121.7	122.7	124.2	127.2	132.6	141.2	157.8
60°	114.8	113.8	112.6	112.3	112.3	112.9	113.7	115.8	120.9	128.5	142.2
62.5°	105.7	104.6	103.9	102.9	102.5	103.1	103.9	105.5	109.2	116.3	128.1
65°	91.7	90.3	89.4	89.2	88.8	88.3	88.6	90.1	93.1	98.8	108.1
67.5°	77.7	76.4	76.2	75.0	74.5	74.6	74.5	75.8	77.6	82.5	89.5
70°	68.4	67.5	67.1	66.1	65.7	65.3	64.9	66.1	67.8	72.0	78.0
72.5°	59.1	58.2	57.4	56.6	56.7	56.2	56.1	56.9	58.3	62.1	66.8
75°	45.5	45.8	44.8	43.8	43.7	43.2	43.2	43.8	44.4	47.4	51.1
77.5°	33.1	32.9	32.1	31.8	31.6	31.2	31.6	31.9	32.3	34.3	36.9
80°	25.2	25.2	24.3	24.3	24.0	23.5	24.0	23.7	24.5	26.4	28.3
82.5°	18.0	17.7	17.7	17.4	17.3	16.9	17.1	17.6	17.9	19.2	20.4
85°	8.8	8.8	8.6	8.4	8.6	8.4	8.6	8.8	9.0	9.6	10.6
87.5°	5.2	5.2	5.1	4.9	4.6	4.6	4.4	4.1	4.0	3.8	3.6
90°	16.6	15.8	14.3	12.9	11.5	10.2	8.4	6.5	4.6	2.7	0.8
92.5°	18.7	18.3	17.6	16.9	16.2	15.4	15.2	15.3	15.5	15.7	15.8
95°	31.5	30.7	29.4	28.2	27.0	25.7	28.1	33.8	39.6	45.4	51.1
97.5°	41.8	41.1	38.2	35.4	32.5	29.7	36.4	52.7	69.0	85.2	101.4
100°	46.2	44.9	41.8	38.9	35.9	33.0	43.4	67.3	91.3	115.2	139.2
102.5°	47.9	46.1	70.9	95.7	120.6	145.5	160.4	165.5	170.6	175.6	180.7
105°	49.9	48.0	95.7	143.4	191.1	238.8	260.0	254.8	249.5	244.3	239.0
107.5°	65.2	67.2	124.3	181.6	238.8	296.0	322.5	318.2	314.0	309.8	305.6
110°	120.1	137.6	188.1	238.6	289.1	339.6	363.0	359.4	355.7	352.1	348.4



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	283.4	347.1	359.6	372.0	384.5	397.0	401.6	398.4	395.1	391.8	388.6
115°	404.2	485.2	480.8	476.5	472.1	467.7	464.0	461.1	458.1	455.1	452.1
117.5°	517.8	537.4	534.4	531.4	528.4	525.4	522.2	518.9	515.6	512.2	508.9
120°	578.5	576.4	573.3	570.1	567.0	563.8	560.9	558.3	555.7	553.0	550.4
122.5°	614.8	613.5	610.1	606.7	603.2	599.8	596.7	593.9	591.2	588.4	585.7
125°	665.7	664.4	661.2	657.8	654.5	651.2	648.4	646.1	643.9	641.5	639.3
127.5°	712.1	710.4	707.9	705.4	702.9	700.4	697.9	695.4	692.9	690.4	687.9
130°	741.8	739.9	738.0	736.1	734.2	732.3	729.9	727.1	724.3	721.5	718.8
132.5°	771.2	769.5	767.6	765.7	763.8	761.8	759.7	757.3	754.9	752.5	750.2
135°	812.4	810.7	809.2	807.6	806.0	804.4	802.3	799.4	796.7	793.8	791.1
137.5°	850.9	849.3	847.5	845.7	843.9	842.1	840.2	838.3	836.4	834.4	832.4
140°	876.0	874.4	872.5	870.6	868.7	866.8	865.0	863.7	862.3	860.9	859.5
142.5°	899.1	897.7	895.5	893.3	891.0	888.9	887.2	885.9	884.7	883.4	882.1
145°	931.4	930.2	927.3	924.3	921.4	918.3	917.0	917.1	917.3	917.5	917.7
147.5°	959.8	958.9	956.0	953.0	950.0	947.1	946.0	946.7	947.4	948.0	948.6
150°	976.9	975.9	973.1	970.3	967.5	964.7	963.9	965.1	966.3	967.6	968.8
152.5°	992.6	991.6	988.9	986.3	983.6	980.9	980.3	981.7	983.0	984.4	985.8
155°	1013.8	1012.8	1010.7	1008.7	1006.5	1004.4	1004.2	1005.7	1007.3	1008.9	1010.5
157.5°	1031.7	1030.4	1029.0	1027.5	1026.1	1024.6	1024.5	1025.8	1027.2	1028.5	1029.8
160°	1042.2	1041.1	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1
162.5°	1051.7	1050.6	1049.6	1048.7	1047.8	1046.9	1047.0	1048.0	1049.1	1050.2	1051.2
165°	1063.6	1062.4	1061.9	1061.3	1060.8	1060.2	1060.5	1061.5	1062.6	1063.7	1064.7
167.5°	1073.5	1072.3	1071.8	1071.3	1070.8	1070.3	1070.6	1071.6	1072.7	1073.8	1074.8
170°	1078.5	1077.3	1076.9	1076.6	1076.2	1075.9	1076.2	1077.3	1078.3	1079.3	1080.5
172.5°	1082.3	1081.1	1080.7	1080.4	1080.0	1079.7	1080.0	1081.1	1082.1	1083.1	1084.2
175°	1086.4	1085.1	1084.8	1084.4	1084.1	1083.7	1084.2	1085.4	1086.7	1087.9	1089.1
177.5°	1087.1	1086.1	1086.0	1085.8	1085.7	1085.5	1086.0	1086.9	1088.0	1088.9	1089.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



TEST NUMBER: P331267-935

CATALOG NUMBER: SA2XXDIP-C290D925U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	511.6	512.4	514.9	517.4	520.2	521.0	522.2	521.2	520.8	523.7	526.0
5°	513.1	516.5	523.4	529.7	534.9	538.6	542.6	544.2	547.1	551.1	556.3
7.5°	511.3	518.2	529.0	538.1	548.0	555.2	560.8	565.6	571.4	579.1	587.6
10°	509.5	518.7	531.8	542.9	555.1	564.3	571.9	579.4	588.0	598.7	609.8
12.5°	506.1	516.9	533.4	546.6	562.1	571.2	581.4	597.4	606.7	621.7	637.4
15°	499.1	511.3	534.2	550.4	568.0	585.2	604.2	619.4	634.6	643.5	665.6
17.5°	488.9	506.6	532.0	551.0	573.3	600.4	621.7	639.0	656.6	670.9	682.0
20°	480.5	499.9	528.9	551.6	578.2	607.3	631.7	649.4	664.6	676.6	683.4
22.5°	470.1	494.5	522.6	549.2	583.2	612.0	637.7	651.5	664.3	670.1	672.8
25°	453.6	482.9	514.8	547.3	585.6	616.1	639.6	648.0	651.7	646.0	636.6
27.5°	435.8	468.5	505.8	543.5	584.1	613.5	630.3	629.0	622.7	604.2	589.6
30°	422.5	458.5	498.5	539.8	580.5	609.1	618.8	609.1	594.8	574.3	553.3
32.5°	408.5	445.8	490.9	534.5	573.9	599.1	601.2	584.4	562.2	538.9	512.8
35°	387.4	427.7	476.5	522.6	560.0	575.8	566.5	536.7	510.5	478.6	443.0
37.5°	363.6	408.1	456.9	505.2	539.1	543.2	519.9	488.6	451.6	414.1	372.2
40°	345.8	393.0	443.2	491.9	521.9	517.5	487.8	453.4	409.4	363.6	324.7
42.5°	329.8	376.9	428.2	476.0	499.9	488.1	453.4	411.1	363.9	320.7	285.1
45°	302.2	350.7	403.1	449.3	463.0	441.6	395.7	348.7	302.2	266.2	238.1
47.5°	275.3	323.3	375.2	415.8	420.6	391.9	341.7	293.4	253.4	224.1	204.2
50°	255.6	303.8	355.2	391.4	389.8	355.2	303.6	257.6	224.1	200.4	187.2
52.5°	238.0	283.4	332.8	365.8	357.4	319.7	270.4	229.5	202.1	183.6	171.5
55°	210.4	252.5	299.5	325.9	310.6	268.7	227.0	194.2	173.8	160.0	150.6
57.5°	183.1	222.6	262.8	279.1	262.2	223.5	188.8	165.0	149.6	139.4	133.3
60°	166.3	200.7	236.4	250.6	230.4	196.0	168.6	147.3	134.9	126.6	121.1
62.5°	149.4	180.2	214.0	221.6	203.2	174.1	149.8	132.1	122.0	114.5	109.3
65°	126.3	151.6	177.2	182.3	165.3	142.8	123.6	112.1	103.1	97.6	93.5
67.5°	103.7	123.9	142.1	146.1	131.2	115.6	101.8	91.7	85.7	81.1	77.6
70°	90.1	106.2	121.1	124.4	112.4	98.6	88.0	80.0	74.5	70.6	67.2
72.5°	75.9	89.3	101.7	103.9	94.2	83.5	74.9	68.5	63.7	61.2	58.0
75°	58.1	66.0	75.5	76.1	69.7	63.2	56.6	52.4	49.9	46.8	45.2
77.5°	41.0	47.1	52.6	53.6	49.9	45.5	41.8	38.5	36.3	34.9	33.4
80°	31.3	36.2	38.6	39.9	37.2	34.0	31.9	29.7	28.3	27.4	26.4
82.5°	22.4	25.4	27.6	28.7	27.1	25.2	23.2	21.9	20.8	20.1	19.7
85°	11.4	12.7	14.1	14.5	14.1	13.3	12.1	12.1	11.5	11.4	11.4
87.5°	4.5	5.4	5.9	6.7	6.7	7.0	7.3	7.4	7.5	7.6	7.6
90°	2.7	4.6	6.5	8.4	10.2	11.5	12.9	14.3	15.8	16.6	17.5
92.5°	15.7	15.5	15.3	15.2	15.4	16.2	16.9	17.6	18.3	18.7	19.1
95°	45.4	39.6	33.8	28.1	25.7	27.0	28.2	29.4	30.7	31.5	32.4
97.5°	85.2	69.0	52.7	36.4	29.7	32.5	35.4	38.2	41.1	41.8	42.4
100°	115.2	91.3	67.3	43.4	33.0	35.9	38.9	41.8	44.9	46.2	47.6
102.5°	175.6	170.6	165.5	160.4	145.5	120.6	95.7	70.9	46.1	47.9	49.7
105°	244.3	249.5	254.8	260.0	238.8	191.1	143.4	95.7	48.0	49.9	51.8
107.5°	309.8	314.0	318.2	322.5	296.0	238.8	181.6	124.3	67.2	65.2	63.2
110°	352.1	355.7	359.4	363.0	339.6	289.1	238.6	188.1	137.6	120.1	102.6



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CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	391.8	395.1	398.4	401.6	397.0	384.5	372.0	359.6	347.1	283.4	219.6
115°	455.1	458.1	461.1	464.0	467.7	472.1	476.5	480.8	485.2	404.2	323.4
117.5°	512.2	515.6	518.9	522.2	525.4	528.4	531.4	534.4	537.4	517.8	498.3
120°	553.0	555.7	558.3	560.9	563.8	567.0	570.1	573.3	576.4	578.5	580.6
122.5°	588.4	591.2	593.9	596.7	599.8	603.2	606.7	610.1	613.5	614.8	616.0
125°	641.5	643.9	646.1	648.4	651.2	654.5	657.8	661.2	664.4	665.7	666.9
127.5°	690.4	692.9	695.4	697.9	700.4	702.9	705.4	707.9	710.4	712.1	713.9
130°	721.5	724.3	727.1	729.9	732.3	734.2	736.1	738.0	739.9	741.8	743.8
132.5°	752.5	754.9	757.3	759.7	761.8	763.8	765.7	767.6	769.5	771.2	772.8
135°	793.8	796.7	799.4	802.3	804.4	806.0	807.6	809.2	810.7	812.4	814.2
137.5°	834.4	836.4	838.3	840.2	842.1	843.9	845.7	847.5	849.3	850.9	852.6
140°	860.9	862.3	863.7	865.0	866.8	868.7	870.6	872.5	874.4	876.0	877.5
142.5°	883.4	884.7	885.9	887.2	888.9	891.0	893.3	895.5	897.7	899.1	900.5
145°	917.5	917.3	917.1	917.0	918.3	921.4	924.3	927.3	930.2	931.4	932.7
147.5°	948.0	947.4	946.7	946.0	947.1	950.0	953.0	956.0	958.9	959.8	960.7
150°	967.6	966.3	965.1	963.9	964.7	967.5	970.3	973.1	975.9	976.9	977.9
152.5°	984.4	983.0	981.7	980.3	980.9	983.6	986.3	988.9	991.6	992.6	993.7
155°	1008.9	1007.3	1005.7	1004.2	1004.4	1006.5	1008.7	1010.7	1012.8	1013.8	1014.9
157.5°	1028.5	1027.2	1025.8	1024.5	1024.6	1026.1	1027.5	1029.0	1030.4	1031.7	1032.8
160°	1040.1	1039.1	1037.9	1036.9	1036.9	1037.9	1039.1	1040.1	1041.1	1042.2	1043.2
162.5°	1050.2	1049.1	1048.0	1047.0	1046.9	1047.8	1048.7	1049.6	1050.6	1051.7	1052.9
165°	1063.7	1062.6	1061.5	1060.5	1060.2	1060.8	1061.3	1061.9	1062.4	1063.6	1064.8
167.5°	1073.8	1072.7	1071.6	1070.6	1070.3	1070.8	1071.3	1071.8	1072.3	1073.5	1074.7
170°	1079.3	1078.3	1077.3	1076.2	1075.9	1076.2	1076.6	1076.9	1077.3	1078.5	1079.8
172.5°	1083.1	1082.1	1081.1	1080.0	1079.7	1080.0	1080.4	1080.7	1081.1	1082.3	1083.5
175°	1087.9	1086.7	1085.4	1084.2	1083.7	1084.1	1084.4	1084.8	1085.1	1086.4	1087.6
177.5°	1088.9	1088.0	1086.9	1086.0	1085.5	1085.7	1085.8	1086.0	1086.1	1087.1	1088.0
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	508.9	508.9	508.9	508.9	508.9	508.9	508.9
2.5°	527.9	530.0	530.0	530.4	532.9	532.5	532.4
5°	561.7	565.1	565.4	568.9	571.3	570.5	568.3
7.5°	593.7	599.9	604.6	607.2	610.3	612.2	611.3
10°	619.1	628.0	633.5	637.2	641.7	645.1	643.9
12.5°	642.0	652.7	660.3	666.7	667.2	671.5	668.6
15°	678.0	689.2	690.4	695.1	698.9	698.4	698.6
17.5°	689.7	693.4	694.1	694.2	694.3	692.9	689.9
20°	685.5	684.2	680.9	678.3	673.8	673.2	669.3
22.5°	665.5	661.2	652.8	647.3	640.3	638.5	637.4
25°	626.1	616.5	603.2	590.5	586.9	580.1	582.0
27.5°	572.0	557.1	542.6	532.4	523.0	512.7	515.7
30°	534.0	517.1	496.8	481.1	471.1	461.4	459.6
32.5°	488.6	463.9	441.3	427.5	412.2	406.0	399.2
35°	410.4	386.2	363.8	344.4	333.3	324.7	316.8
37.5°	340.0	312.3	294.1	278.4	270.4	265.4	266.7
40°	296.4	272.1	258.7	246.8	239.4	235.9	236.7
42.5°	261.0	242.8	231.9	223.7	218.4	216.5	216.0
45°	220.8	210.7	201.6	197.0	194.4	192.3	190.9
47.5°	193.5	185.1	180.0	177.3	175.0	172.9	172.8
50°	177.0	171.5	168.0	165.1	163.3	161.8	163.2
52.5°	164.5	159.5	155.9	153.3	152.7	151.3	151.2
55°	145.9	142.0	139.5	137.1	136.0	135.2	134.1
57.5°	129.0	125.3	123.0	121.5	119.2	118.5	118.1
60°	116.9	114.0	111.7	109.7	108.7	107.2	107.2
62.5°	105.8	102.9	100.7	99.3	97.6	97.0	97.2
65°	89.8	87.4	85.2	83.7	83.3	82.1	82.6
67.5°	75.0	73.4	71.1	70.3	69.6	69.0	68.4
70°	65.1	63.5	62.4	61.2	60.6	60.6	60.6
72.5°	56.8	54.9	54.2	52.8	53.1	52.5	51.8
75°	44.0	42.8	42.3	41.7	40.7	40.7	40.7
77.5°	32.4	32.0	31.3	30.7	30.5	30.3	30.4
80°	25.1	24.8	24.5	24.5	24.0	23.8	23.5
82.5°	19.3	18.8	18.5	18.3	18.3	18.3	18.2
85°	10.9	10.6	10.6	10.8	10.3	10.3	10.6
87.5°	7.9	8.1	8.0	8.1	8.4	8.3	8.4
90°	18.3	19.2	19.8	20.1	20.5	20.9	21.3
92.5°	19.6	20.1	20.4	20.6	20.8	21.0	21.3
95°	33.3	34.2	34.5	34.4	34.2	34.0	33.8
97.5°	43.1	43.8	44.3	44.5	44.7	44.9	45.1
100°	49.0	50.5	51.3	51.7	52.0	52.3	52.7
102.5°	51.6	53.4	54.5	55.0	55.4	56.0	56.5
105°	53.7	55.6	57.0	57.7	58.4	59.1	59.8
107.5°	61.3	59.3	58.7	59.4	60.1	60.8	61.5
110°	85.2	67.7	59.3	60.0	60.7	61.4	62.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	155.8	92.1	60.5	61.0	61.6	62.2	62.8
115°	242.5	161.5	114.8	102.2	89.6	77.1	64.5
117.5°	478.7	459.1	428.6	387.3	345.9	304.6	263.3
120°	582.7	584.8	574.0	550.4	526.8	503.3	479.7
122.5°	617.3	618.5	616.9	612.3	607.7	603.1	598.6
125°	668.1	669.3	670.2	670.7	671.2	671.8	672.4
127.5°	715.7	717.6	718.4	718.6	718.7	718.8	718.8
130°	745.7	747.6	748.6	748.4	748.1	748.0	747.8
132.5°	774.5	776.1	776.8	776.6	776.4	776.3	776.1
135°	816.0	817.7	818.4	818.0	817.7	817.3	817.0
137.5°	854.4	856.1	856.7	856.1	855.5	854.9	854.3
140°	879.2	880.7	881.1	880.2	879.3	878.5	877.5
142.5°	902.0	903.4	903.7	902.8	902.0	901.1	900.2
145°	933.9	935.1	935.3	934.4	933.6	932.7	931.9
147.5°	961.6	962.5	962.6	961.8	961.1	960.4	959.7
150°	979.0	980.1	980.2	979.3	978.4	977.5	976.6
152.5°	994.7	995.7	995.7	994.5	993.4	992.3	991.1
155°	1016.0	1017.0	1016.8	1015.5	1014.0	1012.6	1011.2
157.5°	1034.0	1035.2	1035.1	1033.7	1032.3	1031.0	1029.7
160°	1044.3	1045.3	1045.3	1044.0	1042.8	1041.6	1040.3
162.5°	1054.1	1055.3	1055.2	1053.7	1052.1	1050.7	1049.1
165°	1066.0	1067.2	1067.2	1066.0	1064.8	1063.6	1062.4
167.5°	1075.9	1077.2	1076.9	1075.4	1073.8	1072.3	1070.7
170°	1081.0	1082.2	1082.0	1080.5	1078.8	1077.3	1075.7
172.5°	1084.8	1086.0	1085.8	1084.2	1082.6	1081.1	1079.5
175°	1088.8	1090.0	1089.8	1088.0	1086.3	1084.5	1082.8
177.5°	1089.1	1090.0	1089.9	1088.6	1087.4	1086.1	1084.9
180°	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8	1086.8

(END OF REPORT)