

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: P331267-927

Luminaire Tested: **SA2XXDIP-C290D925U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

Test Information

Test Method: LM-79-08
Report Number: P331267-927
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-C290D925U927-4F0-1E-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

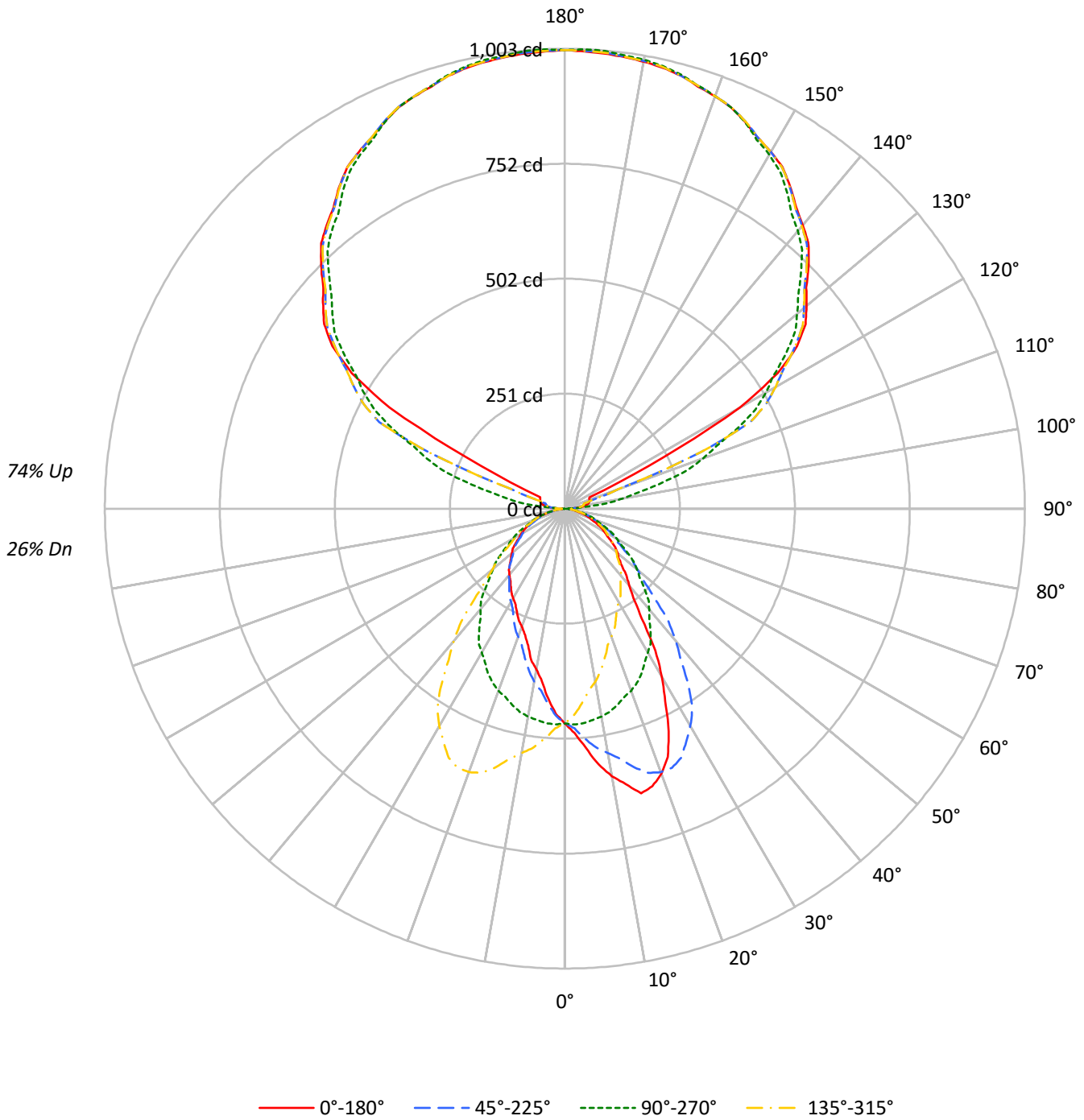
Lumens per Lamp: N/A
Luminaire Lumens: 3965.6 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.16 / 1.23
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

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°	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	1.1
10°-20°	129.6	3.3
20°-30°	188.1	4.7
30°-40°	198.5	5.0
40°-50°	175.8	4.4
50°-60°	140.3	3.5
60°-70°	95.4	2.4
70°-80°	48.9	1.2
80°-90°	14.3	0.4
90°-100°	33.4	0.8
100°-110°	122.3	3.1
110°-120°	326.9	8.2
120°-130°	539.7	13.6
130°-140°	574.0	14.5
140°-150°	533.5	13.5
150°-160°	428.9	10.8
160°-170°	276.4	7.0
170°-180°	95.1	2.4
0°-30°	362.4	9.1
0°-40°	560.9	14.1
0°-60°	877.0	22.1
0°-90°	1035.5	26.1
90°-120°	482.6	12.2
90°-150°	2129.7	53.7
90°-180°	2930.0	73.9
0°-180°	3965.6	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°	20	1	20	1	20	9
95°	31	47	31	47	31	29
105°	55	220	55	220	55	57
115°	59	416	59	416	59	149
125°	619	588	619	588	619	535
135°	752	728	752	728	752	579
145°	857	844	857	844	857	536
155°	930	930	930	930	930	429
165°	978	980	978	980	978	276
175°	996	1002	996	1002	996	95
180°	1000	1000	1000	1000	1000	



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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°	7.7	7.6	7.7	7.4	7.4	7.4	7.3	7.0	7.0	6.9	6.8
90°	19.6	19.3	18.9	18.5	18.2	17.7	16.9	16.1	15.3	14.5	13.2
92.5°	19.6	19.3	19.2	18.9	18.8	18.5	18.1	17.6	17.2	16.8	16.2
95°	31.1	31.3	31.4	31.6	31.8	31.4	30.7	29.8	29.0	28.2	27.1
97.5°	41.5	41.4	41.1	41.0	40.7	40.3	39.7	39.1	38.4	37.8	35.2
100°	48.5	48.2	47.8	47.5	47.2	46.4	45.1	43.8	42.5	41.3	38.5
102.5°	52.0	51.5	51.0	50.6	50.1	49.1	47.5	45.7	44.0	42.4	65.3
105°	55.0	54.3	53.7	53.1	52.4	51.2	49.4	47.7	45.9	44.1	88.0
107.5°	56.6	55.9	55.3	54.7	54.0	54.6	56.4	58.1	60.0	61.8	114.4
110°	57.2	56.5	55.8	55.2	54.6	62.3	78.3	94.4	110.5	126.6	173.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	57.8	57.2	56.7	56.2	55.7	84.8	143.4	202.1	260.7	319.3	330.8
115°	59.3	70.9	82.5	94.0	105.6	148.6	223.1	297.5	371.9	446.4	442.4
117.5°	242.2	280.3	318.3	356.3	394.3	422.4	440.5	458.4	476.4	494.4	491.7
120°	441.3	463.0	484.7	506.4	528.1	538.1	536.1	534.2	532.3	530.3	527.4
122.5°	550.7	554.9	559.1	563.4	567.6	569.1	567.9	566.8	565.6	564.5	561.3
125°	618.6	618.1	617.6	617.1	616.6	615.8	614.7	613.6	612.5	611.3	608.3
127.5°	661.4	661.3	661.2	661.2	661.0	660.2	658.5	656.9	655.2	653.6	651.3
130°	688.0	688.2	688.3	688.6	688.7	687.9	686.1	684.4	682.5	680.8	679.1
132.5°	714.1	714.2	714.4	714.5	714.7	714.1	712.6	711.1	709.6	708.0	706.2
135°	751.7	752.0	752.3	752.7	753.0	752.3	750.8	749.2	747.5	745.9	744.5
137.5°	786.0	786.6	787.1	787.7	788.2	787.7	786.1	784.5	782.9	781.4	779.7
140°	807.4	808.3	809.1	809.8	810.6	810.3	808.9	807.4	806.0	804.5	802.8
142.5°	828.2	829.1	829.9	830.7	831.5	831.2	829.9	828.5	827.3	825.9	823.9
145°	857.4	858.2	859.0	859.8	860.5	860.4	859.3	858.2	857.0	855.9	853.2
147.5°	883.0	883.6	884.3	884.9	885.7	885.6	884.7	883.9	883.0	882.3	879.6
150°	898.6	899.4	900.2	901.0	901.8	901.7	900.8	899.8	898.8	897.9	895.3
152.5°	911.9	913.0	914.0	915.0	916.2	916.2	915.2	914.3	913.3	912.4	909.9
155°	930.4	931.7	933.0	934.3	935.6	935.7	934.8	933.8	932.8	931.8	929.9
157.5°	947.4	948.6	949.8	951.1	952.4	952.4	951.3	950.2	949.2	948.1	946.7
160°	957.2	958.3	959.4	960.5	961.7	961.8	960.8	959.8	958.9	957.9	957.0
162.5°	965.3	966.7	968.0	969.5	970.8	971.0	969.9	968.8	967.7	966.6	965.7
165°	977.5	978.6	979.7	980.8	981.9	981.9	980.8	979.7	978.6	977.5	977.0
167.5°	985.1	986.6	988.0	989.4	990.9	991.1	989.9	988.8	987.7	986.6	986.1
170°	989.8	991.2	992.6	994.1	995.5	995.7	994.6	993.5	992.3	991.2	990.9
172.5°	993.2	994.7	996.1	997.5	999.0	999.2	998.1	996.9	995.8	994.7	994.3
175°	996.2	997.8	999.5	1001.1	1002.7	1002.9	1001.8	1000.7	999.6	998.4	998.1
177.5°	998.1	999.3	1000.4	1001.6	1002.7	1002.9	1002.0	1001.1	1000.2	999.3	999.2
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



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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°	6.7	6.4	6.2	6.2	5.4	5.0	4.1	3.3	3.5	3.7	3.8
90°	11.9	10.6	9.3	7.8	6.0	4.3	2.5	0.7	2.5	4.3	6.0
92.5°	15.5	14.9	14.2	13.9	14.1	14.3	14.4	14.6	14.4	14.3	14.1
95°	26.0	24.9	23.7	25.8	31.1	36.4	41.7	47.1	41.7	36.4	31.1
97.5°	32.6	29.9	27.3	33.5	48.5	63.5	78.3	93.3	78.3	63.5	48.5
100°	35.8	33.0	30.3	39.9	61.9	84.0	106.0	128.1	106.0	84.0	61.9
102.5°	88.1	111.0	133.9	147.6	152.3	156.9	161.6	166.3	161.6	156.9	152.3
105°	131.9	175.8	219.7	239.2	234.4	229.6	224.7	219.9	224.7	229.6	234.4
107.5°	167.1	219.7	272.4	296.8	292.8	288.9	285.0	281.1	285.0	288.9	292.8
110°	219.5	266.0	312.4	334.0	330.7	327.3	323.9	320.5	323.9	327.3	330.7



TEST NUMBER: P331267-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	342.3	353.8	365.3	369.5	366.5	363.5	360.5	357.5	360.5	363.5	366.5
115°	438.4	434.4	430.3	426.9	424.2	421.4	418.7	416.0	418.7	421.4	424.2
117.5°	488.9	486.2	483.4	480.5	477.4	474.4	471.3	468.3	471.3	474.4	477.4
120°	524.5	521.7	518.7	516.1	513.7	511.3	508.8	506.4	508.8	511.3	513.7
122.5°	558.2	555.0	551.8	549.0	546.4	543.9	541.4	538.8	541.4	543.9	546.4
125°	605.2	602.2	599.1	596.6	594.5	592.4	590.3	588.2	590.3	592.4	594.5
127.5°	649.0	646.7	644.4	642.1	639.8	637.5	635.3	632.9	635.3	637.5	639.8
130°	677.2	675.5	673.8	671.5	669.0	666.4	663.8	661.3	663.8	666.4	669.0
132.5°	704.5	702.7	700.9	698.9	696.8	694.6	692.4	690.2	692.4	694.6	696.8
135°	743.1	741.6	740.1	738.2	735.5	733.0	730.4	727.9	730.4	733.0	735.5
137.5°	778.1	776.4	774.8	773.1	771.3	769.5	767.7	765.9	767.7	769.5	771.3
140°	801.0	799.2	797.5	795.9	794.6	793.4	792.1	790.8	792.1	793.4	794.6
142.5°	821.9	819.8	817.8	816.3	815.1	814.0	812.8	811.6	812.8	814.0	815.1
145°	850.4	847.7	844.9	843.7	843.8	844.0	844.1	844.3	844.1	844.0	843.8
147.5°	876.9	874.1	871.4	870.4	871.0	871.6	872.2	872.8	872.2	871.6	871.0
150°	892.7	890.2	887.6	886.8	888.0	889.1	890.3	891.4	890.3	889.1	888.0
152.5°	907.4	905.0	902.5	902.0	903.2	904.4	905.7	907.0	905.7	904.4	903.2
155°	928.0	926.1	924.2	923.9	925.3	926.8	928.3	929.7	928.3	926.8	925.3
157.5°	945.4	944.0	942.7	942.6	943.8	945.1	946.3	947.5	946.3	945.1	943.8
160°	956.0	955.0	954.0	954.0	955.0	956.0	957.0	957.9	957.0	956.0	955.0
162.5°	964.9	964.1	963.2	963.3	964.2	965.3	966.2	967.2	966.2	965.3	964.2
165°	976.4	976.0	975.5	975.7	976.7	977.7	978.7	979.6	978.7	977.7	976.7
167.5°	985.6	985.2	984.8	985.0	986.0	987.0	987.9	988.9	987.9	987.0	986.0
170°	990.5	990.2	989.9	990.2	991.2	992.1	993.1	994.1	993.1	992.1	991.2
172.5°	994.0	993.7	993.4	993.7	994.7	995.6	996.6	997.5	996.6	995.6	994.7
175°	997.8	997.4	997.1	997.5	998.6	999.8	1000.9	1002.0	1000.9	999.8	998.6
177.5°	999.0	998.9	998.8	999.2	1000.1	1001.0	1001.9	1002.7	1001.9	1001.0	1000.1
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



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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°	4.0	4.2	4.3	4.5	4.7	4.8	4.8	4.9	5.1	5.0	5.1
90°	7.8	9.3	10.6	11.9	13.2	14.5	15.3	16.1	16.9	17.7	18.2
92.5°	13.9	14.2	14.9	15.5	16.2	16.8	17.2	17.6	18.1	18.5	18.8
95°	25.8	23.7	24.9	26.0	27.1	28.2	29.0	29.8	30.7	31.4	31.8
97.5°	33.5	27.3	29.9	32.6	35.2	37.8	38.4	39.1	39.7	40.3	40.7
100°	39.9	30.3	33.0	35.8	38.5	41.3	42.5	43.8	45.1	46.4	47.2
102.5°	147.6	133.9	111.0	88.1	65.3	42.4	44.0	45.7	47.5	49.1	50.1
105°	239.2	219.7	175.8	131.9	88.0	44.1	45.9	47.7	49.4	51.2	52.4
107.5°	296.8	272.4	219.7	167.1	114.4	61.8	60.0	58.1	56.4	54.6	54.0
110°	334.0	312.4	266.0	219.5	173.1	126.6	110.5	94.4	78.3	62.3	54.6



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	369.5	365.3	353.8	342.3	330.8	319.3	260.7	202.1	143.4	84.8	55.7
115°	426.9	430.3	434.4	438.4	442.4	446.4	371.9	297.5	223.1	148.6	105.6
117.5°	480.5	483.4	486.2	488.9	491.7	494.4	476.4	458.4	440.5	422.4	394.3
120°	516.1	518.7	521.7	524.5	527.4	530.3	532.3	534.2	536.1	538.1	528.1
122.5°	549.0	551.8	555.0	558.2	561.3	564.5	565.6	566.8	567.9	569.1	567.6
125°	596.6	599.1	602.2	605.2	608.3	611.3	612.5	613.6	614.7	615.8	616.6
127.5°	642.1	644.4	646.7	649.0	651.3	653.6	655.2	656.9	658.5	660.2	661.0
130°	671.5	673.8	675.5	677.2	679.1	680.8	682.5	684.4	686.1	687.9	688.7
132.5°	698.9	700.9	702.7	704.5	706.2	708.0	709.6	711.1	712.6	714.1	714.7
135°	738.2	740.1	741.6	743.1	744.5	745.9	747.5	749.2	750.8	752.3	753.0
137.5°	773.1	774.8	776.4	778.1	779.7	781.4	782.9	784.5	786.1	787.7	788.2
140°	795.9	797.5	799.2	801.0	802.8	804.5	806.0	807.4	808.9	810.3	810.6
142.5°	816.3	817.8	819.8	821.9	823.9	825.9	827.3	828.5	829.9	831.2	831.5
145°	843.7	844.9	847.7	850.4	853.2	855.9	857.0	858.2	859.3	860.4	860.5
147.5°	870.4	871.4	874.1	876.9	879.6	882.3	883.0	883.9	884.7	885.6	885.7
150°	886.8	887.6	890.2	892.7	895.3	897.9	898.8	899.8	900.8	901.7	901.8
152.5°	902.0	902.5	905.0	907.4	909.9	912.4	913.3	914.3	915.2	916.2	916.2
155°	923.9	924.2	926.1	928.0	929.9	931.8	932.8	933.8	934.8	935.7	935.6
157.5°	942.6	942.7	944.0	945.4	946.7	948.1	949.2	950.2	951.3	952.4	952.4
160°	954.0	954.0	955.0	956.0	957.0	957.9	958.9	959.8	960.8	961.8	961.7
162.5°	963.3	963.2	964.1	964.9	965.7	966.6	967.7	968.8	969.9	971.0	970.8
165°	975.7	975.5	976.0	976.4	977.0	977.5	978.6	979.7	980.8	981.9	981.9
167.5°	985.0	984.8	985.2	985.6	986.1	986.6	987.7	988.8	989.9	991.1	990.9
170°	990.2	989.9	990.2	990.5	990.9	991.2	992.3	993.5	994.6	995.7	995.5
172.5°	993.7	993.4	993.7	994.0	994.3	994.7	995.8	996.9	998.1	999.2	999.0
175°	997.5	997.1	997.4	997.8	998.1	998.4	999.6	1000.7	1001.8	1002.9	1002.7
177.5°	999.2	998.8	998.9	999.0	999.2	999.3	1000.2	1001.1	1002.0	1002.9	1002.7
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



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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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.0	5.1	4.9
90°	18.5	18.9	19.3	19.6	19.3	18.9	18.5	18.2	17.7	16.9	16.1
92.5°	18.9	19.2	19.3	19.6	19.3	19.2	18.9	18.8	18.5	18.1	17.6
95°	31.6	31.4	31.3	31.1	31.3	31.4	31.6	31.8	31.4	30.7	29.8
97.5°	41.0	41.1	41.4	41.5	41.4	41.1	41.0	40.7	40.3	39.7	39.1
100°	47.5	47.8	48.2	48.5	48.2	47.8	47.5	47.2	46.4	45.1	43.8
102.5°	50.6	51.0	51.5	52.0	51.5	51.0	50.6	50.1	49.1	47.5	45.7
105°	53.1	53.7	54.3	55.0	54.3	53.7	53.1	52.4	51.2	49.4	47.7
107.5°	54.7	55.3	55.9	56.6	55.9	55.3	54.7	54.0	54.6	56.4	58.1
110°	55.2	55.8	56.5	57.2	56.5	55.8	55.2	54.6	62.3	78.3	94.4



TEST NUMBER: P331267-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	56.2	56.7	57.2	57.8	57.2	56.7	56.2	55.7	84.8	143.4	202.1
115°	94.0	82.5	70.9	59.3	70.9	82.5	94.0	105.6	148.6	223.1	297.5
117.5°	356.3	318.3	280.3	242.2	280.3	318.3	356.3	394.3	422.4	440.5	458.4
120°	506.4	484.7	463.0	441.3	463.0	484.7	506.4	528.1	538.1	536.1	534.2
122.5°	563.4	559.1	554.9	550.7	554.9	559.1	563.4	567.6	569.1	567.9	566.8
125°	617.1	617.6	618.1	618.6	618.1	617.6	617.1	616.6	615.8	614.7	613.6
127.5°	661.2	661.2	661.3	661.4	661.3	661.2	661.2	661.0	660.2	658.5	656.9
130°	688.6	688.3	688.2	688.0	688.2	688.3	688.6	688.7	687.9	686.1	684.4
132.5°	714.5	714.4	714.2	714.1	714.2	714.4	714.5	714.7	714.1	712.6	711.1
135°	752.7	752.3	752.0	751.7	752.0	752.3	752.7	753.0	752.3	750.8	749.2
137.5°	787.7	787.1	786.6	786.0	786.6	787.1	787.7	788.2	787.7	786.1	784.5
140°	809.8	809.1	808.3	807.4	808.3	809.1	809.8	810.6	810.3	808.9	807.4
142.5°	830.7	829.9	829.1	828.2	829.1	829.9	830.7	831.5	831.2	829.9	828.5
145°	859.8	859.0	858.2	857.4	858.2	859.0	859.8	860.5	860.4	859.3	858.2
147.5°	884.9	884.3	883.6	883.0	883.6	884.3	884.9	885.7	885.6	884.7	883.9
150°	901.0	900.2	899.4	898.6	899.4	900.2	901.0	901.8	901.7	900.8	899.8
152.5°	915.0	914.0	913.0	911.9	913.0	914.0	915.0	916.2	916.2	915.2	914.3
155°	934.3	933.0	931.7	930.4	931.7	933.0	934.3	935.6	935.7	934.8	933.8
157.5°	951.1	949.8	948.6	947.4	948.6	949.8	951.1	952.4	952.4	951.3	950.2
160°	960.5	959.4	958.3	957.2	958.3	959.4	960.5	961.7	961.8	960.8	959.8
162.5°	969.5	968.0	966.7	965.3	966.7	968.0	969.5	970.8	971.0	969.9	968.8
165°	980.8	979.7	978.6	977.5	978.6	979.7	980.8	981.9	981.9	980.8	979.7
167.5°	989.4	988.0	986.6	985.1	986.6	988.0	989.4	990.9	991.1	989.9	988.8
170°	994.1	992.6	991.2	989.8	991.2	992.6	994.1	995.5	995.7	994.6	993.5
172.5°	997.5	996.1	994.7	993.2	994.7	996.1	997.5	999.0	999.2	998.1	996.9
175°	1001.1	999.5	997.8	996.2	997.8	999.5	1001.1	1002.7	1002.9	1001.8	1000.7
177.5°	1001.6	1000.4	999.3	998.1	999.3	1000.4	1001.6	1002.7	1002.9	1002.0	1001.1
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



TEST NUMBER: P331267-927
 CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

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°	4.8	4.8	4.7	4.5	4.3	4.2	4.0	3.8	3.7	3.5	3.3
90°	15.3	14.5	13.2	11.9	10.6	9.3	7.8	6.0	4.3	2.5	0.7
92.5°	17.2	16.8	16.2	15.5	14.9	14.2	13.9	14.1	14.3	14.4	14.6
95°	29.0	28.2	27.1	26.0	24.9	23.7	25.8	31.1	36.4	41.7	47.1
97.5°	38.4	37.8	35.2	32.6	29.9	27.3	33.5	48.5	63.5	78.3	93.3
100°	42.5	41.3	38.5	35.8	33.0	30.3	39.9	61.9	84.0	106.0	128.1
102.5°	44.0	42.4	65.3	88.1	111.0	133.9	147.6	152.3	156.9	161.6	166.3
105°	45.9	44.1	88.0	131.9	175.8	219.7	239.2	234.4	229.6	224.7	219.9
107.5°	60.0	61.8	114.4	167.1	219.7	272.4	296.8	292.8	288.9	285.0	281.1
110°	110.5	126.6	173.1	219.5	266.0	312.4	334.0	330.7	327.3	323.9	320.5



TEST NUMBER: P331267-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	260.7	319.3	330.8	342.3	353.8	365.3	369.5	366.5	363.5	360.5	357.5
115°	371.9	446.4	442.4	438.4	434.4	430.3	426.9	424.2	421.4	418.7	416.0
117.5°	476.4	494.4	491.7	488.9	486.2	483.4	480.5	477.4	474.4	471.3	468.3
120°	532.3	530.3	527.4	524.5	521.7	518.7	516.1	513.7	511.3	508.8	506.4
122.5°	565.6	564.5	561.3	558.2	555.0	551.8	549.0	546.4	543.9	541.4	538.8
125°	612.5	611.3	608.3	605.2	602.2	599.1	596.6	594.5	592.4	590.3	588.2
127.5°	655.2	653.6	651.3	649.0	646.7	644.4	642.1	639.8	637.5	635.3	632.9
130°	682.5	680.8	679.1	677.2	675.5	673.8	671.5	669.0	666.4	663.8	661.3
132.5°	709.6	708.0	706.2	704.5	702.7	700.9	698.9	696.8	694.6	692.4	690.2
135°	747.5	745.9	744.5	743.1	741.6	740.1	738.2	735.5	733.0	730.4	727.9
137.5°	782.9	781.4	779.7	778.1	776.4	774.8	773.1	771.3	769.5	767.7	765.9
140°	806.0	804.5	802.8	801.0	799.2	797.5	795.9	794.6	793.4	792.1	790.8
142.5°	827.3	825.9	823.9	821.9	819.8	817.8	816.3	815.1	814.0	812.8	811.6
145°	857.0	855.9	853.2	850.4	847.7	844.9	843.7	843.8	844.0	844.1	844.3
147.5°	883.0	882.3	879.6	876.9	874.1	871.4	870.4	871.0	871.6	872.2	872.8
150°	898.8	897.9	895.3	892.7	890.2	887.6	886.8	888.0	889.1	890.3	891.4
152.5°	913.3	912.4	909.9	907.4	905.0	902.5	902.0	903.2	904.4	905.7	907.0
155°	932.8	931.8	929.9	928.0	926.1	924.2	923.9	925.3	926.8	928.3	929.7
157.5°	949.2	948.1	946.7	945.4	944.0	942.7	942.6	943.8	945.1	946.3	947.5
160°	958.9	957.9	957.0	956.0	955.0	954.0	954.0	955.0	956.0	957.0	957.9
162.5°	967.7	966.6	965.7	964.9	964.1	963.2	963.3	964.2	965.3	966.2	967.2
165°	978.6	977.5	977.0	976.4	976.0	975.5	975.7	976.7	977.7	978.7	979.6
167.5°	987.7	986.6	986.1	985.6	985.2	984.8	985.0	986.0	987.0	987.9	988.9
170°	992.3	991.2	990.9	990.5	990.2	989.9	990.2	991.2	992.1	993.1	994.1
172.5°	995.8	994.7	994.3	994.0	993.7	993.4	993.7	994.7	995.6	996.6	997.5
175°	999.6	998.4	998.1	997.8	997.4	997.1	997.5	998.6	999.8	1000.9	1002.0
177.5°	1000.2	999.3	999.2	999.0	998.9	998.8	999.2	1000.1	1001.0	1001.9	1002.7
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



TEST NUMBER: P331267-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

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°	4.1	5.0	5.4	6.2	6.2	6.4	6.7	6.8	6.9	7.0	7.0
90°	2.5	4.3	6.0	7.8	9.3	10.6	11.9	13.2	14.5	15.3	16.1
92.5°	14.4	14.3	14.1	13.9	14.2	14.9	15.5	16.2	16.8	17.2	17.6
95°	41.7	36.4	31.1	25.8	23.7	24.9	26.0	27.1	28.2	29.0	29.8
97.5°	78.3	63.5	48.5	33.5	27.3	29.9	32.6	35.2	37.8	38.4	39.1
100°	106.0	84.0	61.9	39.9	30.3	33.0	35.8	38.5	41.3	42.5	43.8
102.5°	161.6	156.9	152.3	147.6	133.9	111.0	88.1	65.3	42.4	44.0	45.7
105°	224.7	229.6	234.4	239.2	219.7	175.8	131.9	88.0	44.1	45.9	47.7
107.5°	285.0	288.9	292.8	296.8	272.4	219.7	167.1	114.4	61.8	60.0	58.1
110°	323.9	327.3	330.7	334.0	312.4	266.0	219.5	173.1	126.6	110.5	94.4



TEST NUMBER: P331267-927

CATALOG NUMBER: SA2XXDIP-C290D925U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	360.5	363.5	366.5	369.5	365.3	353.8	342.3	330.8	319.3	260.7	202.1
115°	418.7	421.4	424.2	426.9	430.3	434.4	438.4	442.4	446.4	371.9	297.5
117.5°	471.3	474.4	477.4	480.5	483.4	486.2	488.9	491.7	494.4	476.4	458.4
120°	508.8	511.3	513.7	516.1	518.7	521.7	524.5	527.4	530.3	532.3	534.2
122.5°	541.4	543.9	546.4	549.0	551.8	555.0	558.2	561.3	564.5	565.6	566.8
125°	590.3	592.4	594.5	596.6	599.1	602.2	605.2	608.3	611.3	612.5	613.6
127.5°	635.3	637.5	639.8	642.1	644.4	646.7	649.0	651.3	653.6	655.2	656.9
130°	663.8	666.4	669.0	671.5	673.8	675.5	677.2	679.1	680.8	682.5	684.4
132.5°	692.4	694.6	696.8	698.9	700.9	702.7	704.5	706.2	708.0	709.6	711.1
135°	730.4	733.0	735.5	738.2	740.1	741.6	743.1	744.5	745.9	747.5	749.2
137.5°	767.7	769.5	771.3	773.1	774.8	776.4	778.1	779.7	781.4	782.9	784.5
140°	792.1	793.4	794.6	795.9	797.5	799.2	801.0	802.8	804.5	806.0	807.4
142.5°	812.8	814.0	815.1	816.3	817.8	819.8	821.9	823.9	825.9	827.3	828.5
145°	844.1	844.0	843.8	843.7	844.9	847.7	850.4	853.2	855.9	857.0	858.2
147.5°	872.2	871.6	871.0	870.4	871.4	874.1	876.9	879.6	882.3	883.0	883.9
150°	890.3	889.1	888.0	886.8	887.6	890.2	892.7	895.3	897.9	898.8	899.8
152.5°	905.7	904.4	903.2	902.0	902.5	905.0	907.4	909.9	912.4	913.3	914.3
155°	928.3	926.8	925.3	923.9	924.2	926.1	928.0	929.9	931.8	932.8	933.8
157.5°	946.3	945.1	943.8	942.6	942.7	944.0	945.4	946.7	948.1	949.2	950.2
160°	957.0	956.0	955.0	954.0	954.0	955.0	956.0	957.0	957.9	958.9	959.8
162.5°	966.2	965.3	964.2	963.3	963.2	964.1	964.9	965.7	966.6	967.7	968.8
165°	978.7	977.7	976.7	975.7	975.5	976.0	976.4	977.0	977.5	978.6	979.7
167.5°	987.9	987.0	986.0	985.0	984.8	985.2	985.6	986.1	986.6	987.7	988.8
170°	993.1	992.1	991.2	990.2	989.9	990.2	990.5	990.9	991.2	992.3	993.5
172.5°	996.6	995.6	994.7	993.7	993.4	993.7	994.0	994.3	994.7	995.8	996.9
175°	1000.9	999.8	998.6	997.5	997.1	997.4	997.8	998.1	998.4	999.6	1000.7
177.5°	1001.9	1001.0	1000.1	999.2	998.8	998.9	999.0	999.2	999.3	1000.2	1001.1
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9	999.9



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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°	7.3	7.4	7.4	7.4	7.7	7.6	7.7
90°	16.9	17.7	18.2	18.5	18.9	19.3	19.6
92.5°	18.1	18.5	18.8	18.9	19.2	19.3	19.6
95°	30.7	31.4	31.8	31.6	31.4	31.3	31.1
97.5°	39.7	40.3	40.7	41.0	41.1	41.4	41.5
100°	45.1	46.4	47.2	47.5	47.8	48.2	48.5
102.5°	47.5	49.1	50.1	50.6	51.0	51.5	52.0
105°	49.4	51.2	52.4	53.1	53.7	54.3	55.0
107.5°	56.4	54.6	54.0	54.7	55.3	55.9	56.6
110°	78.3	62.3	54.6	55.2	55.8	56.5	57.2



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	143.4	84.8	55.7	56.2	56.7	57.2	57.8
115°	223.1	148.6	105.6	94.0	82.5	70.9	59.3
117.5°	440.5	422.4	394.3	356.3	318.3	280.3	242.2
120°	536.1	538.1	528.1	506.4	484.7	463.0	441.3
122.5°	567.9	569.1	567.6	563.4	559.1	554.9	550.7
125°	614.7	615.8	616.6	617.1	617.6	618.1	618.6
127.5°	658.5	660.2	661.0	661.2	661.2	661.3	661.4
130°	686.1	687.9	688.7	688.6	688.3	688.2	688.0
132.5°	712.6	714.1	714.7	714.5	714.4	714.2	714.1
135°	750.8	752.3	753.0	752.7	752.3	752.0	751.7
137.5°	786.1	787.7	788.2	787.7	787.1	786.6	786.0
140°	808.9	810.3	810.6	809.8	809.1	808.3	807.4
142.5°	829.9	831.2	831.5	830.7	829.9	829.1	828.2
145°	859.3	860.4	860.5	859.8	859.0	858.2	857.4
147.5°	884.7	885.6	885.7	884.9	884.3	883.6	883.0
150°	900.8	901.7	901.8	901.0	900.2	899.4	898.6
152.5°	915.2	916.2	916.2	915.0	914.0	913.0	911.9
155°	934.8	935.7	935.6	934.3	933.0	931.7	930.4
157.5°	951.3	952.4	952.4	951.1	949.8	948.6	947.4
160°	960.8	961.8	961.7	960.5	959.4	958.3	957.2
162.5°	969.9	971.0	970.8	969.5	968.0	966.7	965.3
165°	980.8	981.9	981.9	980.8	979.7	978.6	977.5
167.5°	989.9	991.1	990.9	989.4	988.0	986.6	985.1
170°	994.6	995.7	995.5	994.1	992.6	991.2	989.8
172.5°	998.1	999.2	999.0	997.5	996.1	994.7	993.2
175°	1001.8	1002.9	1002.7	1001.1	999.5	997.8	996.2
177.5°	1002.0	1002.9	1002.7	1001.6	1000.4	999.3	998.1
180°	999.9	999.9	999.9	999.9	999.9	999.9	999.9

(END OF REPORT)