

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: P331633-927

Luminaire Tested: **SA2XXRDIP-C290D925U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331633-927  
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: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 925 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3827.6 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 1.16 / 1.02  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

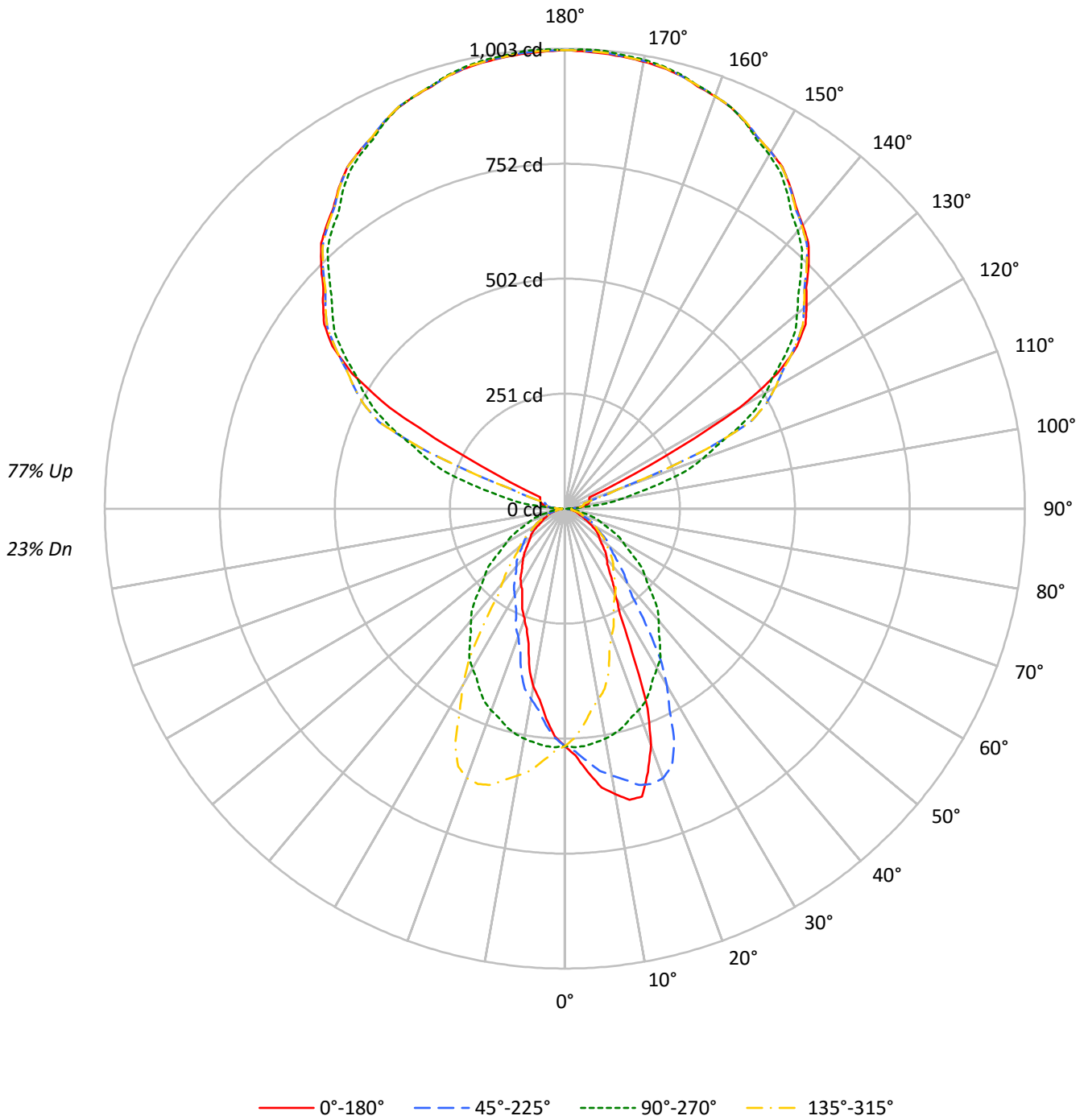
Input Watts (W): 37.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	85	81	82	79	76	73	60	59	57	44	43	42	29	28	27	20
2	84	77	72	67	75	69	64	60	53	50	48	39	37	35	26	25	24	18
3	77	68	62	56	68	61	55	51	47	44	40	35	32	30	23	22	21	15
4	71	61	53	48	63	54	48	43	42	38	35	31	28	26	21	19	18	14
5	65	54	46	41	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	60	48	41	36	53	44	37	32	34	30	26	25	22	20	17	16	14	11
7	55	44	36	31	49	39	33	28	31	26	23	23	20	18	16	14	13	10
8	51	40	32	27	45	36	29	25	28	24	21	21	18	16	15	13	12	9
9	48	36	29	24	42	33	27	22	26	22	18	20	17	14	14	12	11	8
10	44	33	26	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

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

	0°	90°	180°	270°
0°	8360	8360	8360	8360
5°	9339	8413	7460	8413
10°	10362	8355	6466	8355
15°	10870	8232	5095	8232
20°	9424	8052	4409	8052
25°	6180	7803	3935	7803
30°	4161	7500	3563	7500
35°	3370	7121	3213	7121
40°	2995	6709	2974	6709
45°	2710	6224	2653	6224
50°	2467	5745	2459	5745
55°	2320	5210	2291	5210
60°	1941	4724	1918	4724
65°	1639	4290	1857	4290
70°	1511	3829	1751	3829
75°	1416	3337	1616	3337
80°	1302	2743	1432	2743
85°	1204	2167	1260	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.1	1.3
10°-20°	136.8	3.6
20°-30°	176.3	4.6
30°-40°	167.5	4.4
40°-50°	143.5	3.7
50°-60°	109.3	2.9
60°-70°	69.1	1.8
70°-80°	34.5	0.9
80°-90°	11.4	0.3
90°-100°	33.4	0.9
100°-110°	122.3	3.2
110°-120°	326.9	8.5
120°-130°	539.7	14.1
130°-140°	574.0	15.0
140°-150°	533.5	13.9
150°-160°	428.9	11.2
160°-170°	276.4	7.2
170°-180°	95.1	2.5
0°-30°	362.2	9.5
0°-40°	529.7	13.8
0°-60°	782.5	20.4
0°-90°	897.5	23.4
90°-120°	482.6	12.6
90°-150°	2129.7	55.6
90°-180°	2930.0	76.5
0°-180°	3827.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	518	518	518	518	518	
5°	576	519	460	519	576	57
15°	650	492	305	492	650	175
25°	347	438	221	438	347	165
35°	171	361	163	361	171	109
45°	119	273	116	273	119	92
55°	82	185	81	185	82	72
65°	43	112	49	112	43	44
75°	23	54	26	54	23	24
85°	6	12	7	12	6	7
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°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	538.9	539.3	539.8	538.8	538.8	537.9	536.0	534.6	530.5	530.0	530.0
5°	576.2	575.8	576.6	574.2	571.0	570.2	566.8	562.3	557.6	552.5	551.4
7.5°	613.2	612.7	611.2	610.9	608.4	602.9	597.5	591.6	583.8	576.2	572.4
10°	632.0	637.9	634.3	628.0	629.2	620.8	616.3	608.6	602.1	590.7	588.3
12.5°	650.4	652.8	651.6	648.0	646.4	640.6	634.5	627.7	615.8	605.6	596.8
15°	650.3	653.7	654.7	653.6	654.4	654.1	650.9	645.3	634.9	623.7	613.9
17.5°	602.3	604.7	610.6	614.6	619.6	630.3	635.6	637.5	636.0	629.6	622.8
20°	548.5	544.5	561.1	569.5	576.7	594.7	610.2	616.2	625.7	625.5	623.7
22.5°	472.1	473.1	488.8	498.8	519.8	537.9	555.5	577.8	596.3	608.5	615.6
25°	346.9	353.8	369.4	383.1	406.5	440.0	470.4	505.6	538.9	565.2	590.3
27.5°	260.5	261.1	273.5	286.1	300.0	327.4	365.8	407.8	455.3	494.5	539.5
30°	223.2	222.0	227.3	235.0	246.9	268.2	296.9	338.3	385.6	444.7	497.2
32.5°	196.6	196.7	200.7	206.4	216.2	230.5	250.3	283.9	328.6	386.7	448.2
35°	171.0	170.8	173.6	177.8	181.9	191.1	204.6	222.2	253.0	307.1	370.1
37.5°	152.5	153.3	154.7	157.3	161.8	167.0	175.1	187.0	208.8	240.9	293.8
40°	142.1	142.5	144.5	146.6	149.3	153.3	159.9	169.5	185.5	211.0	249.8
42.5°	132.7	133.0	134.4	136.4	138.6	142.5	148.1	156.3	169.3	189.2	221.1
45°	118.7	118.7	120.0	120.9	123.3	126.8	131.3	138.2	147.2	161.9	183.2
47.5°	105.8	105.8	106.6	108.1	109.6	112.4	116.8	122.5	129.0	140.4	158.5
50°	98.2	98.5	98.9	100.2	101.2	103.6	107.1	111.9	118.7	127.6	142.7
52.5°	92.2	92.1	92.8	93.3	94.0	95.7	98.3	102.6	108.7	116.4	128.9
55°	82.4	81.7	82.8	83.7	84.2	84.9	86.3	89.0	94.3	100.8	110.1
57.5°	70.2	69.9	70.7	71.5	73.2	75.1	76.4	78.0	80.7	85.4	94.7
60°	60.1	60.1	61.7	62.3	64.2	66.8	69.3	70.7	73.4	76.4	83.3
62.5°	51.2	51.3	52.0	52.6	53.7	56.8	60.4	63.5	66.1	69.0	73.5
65°	42.9	43.2	43.2	43.6	44.3	45.0	46.4	49.0	53.5	57.6	61.0
67.5°	36.4	36.4	36.6	36.9	37.1	37.9	38.5	39.6	40.6	44.5	48.8
70°	32.0	32.6	32.4	32.7	33.0	33.3	34.0	34.5	36.2	37.1	39.6
72.5°	28.0	28.4	28.4	28.6	29.1	29.2	29.7	30.3	31.3	32.0	33.4
75°	22.7	22.5	22.7	23.1	23.2	23.4	23.4	24.1	24.6	25.3	26.3
77.5°	17.5	17.7	17.7	17.7	17.7	18.1	18.0	18.3	18.9	19.3	19.6
80°	14.0	14.2	14.0	14.2	14.4	14.6	14.4	14.6	15.1	15.4	15.4
82.5°	10.9	10.9	11.0	11.0	11.1	11.1	11.4	11.4	11.8	11.7	11.9
85°	6.5	6.3	6.3	6.3	6.5	6.7	6.5	6.5	6.7	6.7	6.7
87.5°	6.2	6.3	6.3	6.2	6.1	6.0	5.9	5.8	5.5	5.5	5.1
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	38.5
105°	55.0	54.3	53.7	53.1	52.4	51.2	49.4	47.7	45.9	44.1	38.0
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°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	530.3	529.1	528.1	525.5	524.2	521.3	520.9	520.8	517.1	513.4	512.4
5°	548.5	545.6	541.3	536.2	531.0	525.6	522.0	519.1	511.9	505.1	501.1
7.5°	566.8	560.6	553.2	543.7	535.7	526.8	520.1	514.2	504.0	494.2	487.6
10°	580.5	570.5	560.5	547.4	537.1	527.0	517.7	509.6	498.1	485.1	475.9
12.5°	589.0	577.9	564.3	551.4	538.1	525.3	512.8	502.4	488.9	475.5	464.6
15°	600.5	588.6	572.0	553.7	536.6	519.8	505.5	492.5	474.9	458.8	445.5
17.5°	609.9	593.5	575.8	554.5	534.7	513.5	495.0	478.4	458.8	439.4	423.7
20°	612.9	596.7	576.2	554.9	531.6	506.5	486.6	468.6	447.5	426.4	408.4
22.5°	611.0	598.4	575.6	550.2	526.2	500.1	477.5	456.6	433.2	411.8	390.9
25°	598.3	594.0	572.4	544.7	517.4	487.0	460.8	438.0	411.4	388.3	365.7
27.5°	568.7	578.1	564.7	535.1	504.7	472.1	442.8	416.8	389.1	363.2	340.6
30°	540.2	561.6	555.9	528.5	494.5	462.5	429.5	402.3	372.9	346.2	323.9
32.5°	501.2	536.5	542.2	519.3	484.1	448.9	414.4	387.4	356.6	328.5	306.7
35°	439.0	491.9	516.3	501.7	466.4	428.4	392.8	361.3	330.3	302.7	281.1
37.5°	365.0	437.0	477.5	478.6	446.2	406.7	367.9	336.6	304.9	277.7	254.4
40°	316.9	395.0	447.7	459.4	432.1	389.4	350.1	318.3	287.4	260.7	233.9
42.5°	273.7	351.5	416.3	436.7	414.9	372.6	333.2	299.9	269.8	244.6	217.2
45°	221.3	289.4	360.8	397.1	385.1	345.9	304.3	272.6	244.4	222.6	196.3
47.5°	186.7	234.6	303.8	352.9	352.8	317.0	276.0	245.7	219.5	199.1	177.8
50°	167.0	208.7	267.2	323.0	327.6	297.6	258.7	228.7	204.2	182.8	165.7
52.5°	149.2	183.7	236.2	289.8	303.1	277.0	239.3	211.6	187.8	168.1	153.5
55°	126.1	152.8	192.7	242.7	262.9	244.5	211.0	185.1	165.9	149.3	136.7
57.5°	106.7	126.7	158.8	199.0	222.4	211.0	183.3	162.2	145.8	130.8	120.9
60°	94.5	110.8	138.0	171.7	197.6	189.5	165.9	146.3	132.3	119.3	110.0
62.5°	82.9	97.0	120.3	147.7	171.3	168.0	148.8	132.3	120.0	108.2	100.3
65°	66.8	77.0	95.2	116.6	135.7	137.3	123.4	112.3	101.3	92.0	84.9
67.5°	53.2	59.9	72.6	90.7	105.0	110.1	101.6	93.1	84.4	77.2	71.1
70°	44.8	50.2	59.6	74.1	87.3	92.7	87.8	81.1	73.6	67.7	62.4
72.5°	36.3	41.6	48.5	59.2	70.4	76.3	74.5	69.8	63.7	58.7	53.8
75°	27.3	29.0	33.7	40.9	49.7	54.7	55.9	53.5	48.6	44.8	41.9
77.5°	20.2	21.2	23.4	27.2	33.0	37.5	39.3	39.0	35.6	33.5	30.7
80°	16.2	16.7	17.8	19.4	23.8	28.3	29.5	29.5	27.2	26.3	23.6
82.5°	12.3	12.7	13.4	14.3	16.2	20.2	21.6	21.9	20.4	19.3	17.1
85°	7.1	6.8	7.2	7.8	8.1	9.2	11.3	11.7	11.3	9.9	9.3
87.5°	4.8	4.7	4.4	4.0	3.8	3.6	4.0	4.4	4.1	4.0	4.1
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: P331633-927

CATALOG NUMBER: SA2XXRDIP-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



TEST NUMBER: P331633-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	510.6	509.5	507.6	504.8	503.0	500.0	498.0	499.2	499.5	499.2	498.9
5°	496.9	493.1	487.8	482.8	478.1	473.1	470.2	469.0	466.4	465.0	464.2
7.5°	480.2	473.7	466.4	457.6	450.1	442.3	438.3	436.3	431.2	428.4	426.0
10°	467.9	457.6	450.2	438.7	431.7	421.4	414.4	414.6	407.6	403.6	400.8
12.5°	454.2	442.9	430.6	420.3	410.5	402.3	393.8	390.4	382.9	379.1	371.4
15°	431.5	418.4	405.4	391.4	381.5	368.7	356.5	341.5	329.5	319.0	316.2
17.5°	406.8	390.5	377.5	361.0	344.0	322.6	308.4	299.7	292.5	286.9	282.8
20°	389.8	373.2	359.3	334.5	311.6	297.1	286.7	280.0	272.4	266.5	263.2
22.5°	371.9	354.7	335.7	308.0	290.2	278.5	269.3	261.6	256.4	251.8	248.8
25°	346.6	327.6	296.5	277.5	263.1	250.8	244.4	239.7	234.3	228.0	225.1
27.5°	319.8	289.8	267.4	253.2	239.5	231.6	225.7	218.7	213.9	211.0	208.0
30°	299.8	269.7	252.3	236.8	227.1	218.2	211.4	207.5	202.8	198.0	196.0
32.5°	277.5	253.5	236.7	223.9	214.0	206.4	201.1	194.6	191.3	188.3	184.2
35°	249.8	231.6	216.3	205.9	196.5	190.4	184.1	180.3	174.2	171.7	170.1
37.5°	226.3	210.6	199.2	188.1	180.7	174.0	170.1	164.1	161.4	157.9	154.5
40°	213.0	197.6	186.6	177.6	169.3	164.3	159.5	154.6	150.6	149.0	144.9
42.5°	199.6	187.0	175.9	166.1	160.6	155.2	149.1	145.5	141.4	138.8	136.3
45°	180.9	169.7	160.3	152.3	146.1	140.5	136.6	130.6	128.3	123.1	120.9
47.5°	164.5	154.1	145.1	137.4	131.5	127.9	122.1	117.4	113.7	110.4	107.7
50°	152.8	144.1	135.5	128.7	123.3	118.0	112.1	109.8	104.0	102.3	100.8
52.5°	142.1	133.9	126.0	119.3	113.9	108.8	103.6	100.5	96.6	95.1	93.9
55°	127.2	119.3	111.8	105.8	100.4	95.2	92.0	88.2	86.3	85.1	83.7
57.5°	112.3	105.1	99.3	93.3	87.9	83.7	80.0	77.7	75.9	74.2	72.5
60°	102.7	95.9	90.7	85.1	79.5	76.1	73.3	70.5	68.4	65.8	65.1
62.5°	92.7	86.7	81.9	76.4	71.6	68.5	65.8	63.2	60.6	57.0	55.9
65°	78.8	74.1	69.1	64.6	60.3	57.2	53.2	50.4	49.3	49.0	48.8
67.5°	66.3	61.9	57.5	52.9	49.0	46.2	44.1	43.7	42.9	42.8	42.2
70°	57.9	53.8	49.5	45.2	41.4	40.9	40.2	39.4	38.5	38.2	37.8
72.5°	50.5	46.2	41.8	38.4	36.8	36.1	35.4	34.6	34.1	33.7	33.5
75°	38.7	34.7	31.8	30.6	29.7	29.2	28.0	27.6	27.2	26.6	26.5
77.5°	27.9	25.6	24.3	23.5	22.6	22.0	21.4	20.8	20.4	20.4	20.0
80°	21.2	20.1	19.3	18.1	17.8	17.1	17.0	16.4	16.6	16.0	16.0
82.5°	16.5	15.1	14.3	13.9	13.5	12.9	12.8	12.5	12.5	12.1	12.1
85°	8.5	8.1	7.8	7.4	7.4	6.8	7.1	6.8	6.8	6.5	6.3
87.5°	4.3	4.4	4.4	4.7	4.9	5.1	5.2	5.2	5.4	5.5	5.5
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



TEST NUMBER: P331633-927

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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



TEST NUMBER: P331633-927

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	497.3	497.6	497.2	497.4	497.2	497.6	497.3	498.9	499.2	499.5	499.2
5°	463.3	461.2	460.8	460.3	460.8	461.2	463.3	464.2	465.0	466.4	469.0
7.5°	422.9	422.6	421.6	420.3	421.6	422.6	422.9	426.0	428.4	431.2	436.3
10°	396.8	395.9	395.7	394.4	395.7	395.9	396.8	400.8	403.6	407.6	414.6
12.5°	366.2	360.4	359.9	356.7	359.9	360.4	366.2	371.4	379.1	382.9	390.4
15°	311.9	310.8	307.1	304.8	307.1	310.8	311.9	316.2	319.0	329.5	341.5
17.5°	280.7	277.2	276.1	275.6	276.1	277.2	280.7	282.8	286.9	292.5	299.7
20°	260.7	257.5	257.0	256.6	257.0	257.5	260.7	263.2	266.5	272.4	280.0
22.5°	246.9	243.5	242.2	241.1	242.2	243.5	246.9	248.8	251.8	256.4	261.6
25°	223.3	222.0	221.3	220.9	221.3	222.0	223.3	225.1	228.0	234.3	239.7
27.5°	204.9	202.1	201.5	200.6	201.5	202.1	204.9	208.0	211.0	213.9	218.7
30°	194.3	193.5	192.2	191.1	192.2	193.5	194.3	196.0	198.0	202.8	207.5
32.5°	182.0	181.2	180.1	179.6	180.1	181.2	182.0	184.2	188.3	191.3	194.6
35°	168.3	165.7	164.6	163.0	164.6	165.7	168.3	170.1	171.7	174.2	180.3
37.5°	153.8	152.4	150.9	151.5	150.9	152.4	153.8	154.5	157.9	161.4	164.1
40°	142.5	141.6	141.2	141.1	141.2	141.6	142.5	144.9	149.0	150.6	154.6
42.5°	133.6	131.1	130.2	130.2	130.2	131.1	133.6	136.3	138.8	141.4	145.5
45°	120.0	117.7	116.1	116.2	116.1	117.7	120.0	120.9	123.1	128.3	130.6
47.5°	106.2	106.1	105.0	105.4	105.0	106.1	106.2	107.7	110.4	113.7	117.4
50°	99.5	98.5	97.7	97.9	97.7	98.5	99.5	100.8	102.3	104.0	109.8
52.5°	93.2	92.2	91.7	92.4	91.7	92.2	93.2	93.9	95.1	96.6	100.5
55°	82.8	81.7	81.5	81.4	81.5	81.7	82.8	83.7	85.1	86.3	88.2
57.5°	71.1	70.4	69.3	68.9	69.3	70.4	71.1	72.5	74.2	75.9	77.7
60°	62.8	61.4	59.6	59.4	59.6	61.4	62.8	65.1	65.8	68.4	70.5
62.5°	55.1	54.9	54.5	54.5	54.5	54.9	55.1	55.9	57.0	60.6	63.2
65°	48.4	48.2	48.4	48.6	48.4	48.2	48.4	48.8	49.0	49.3	50.4
67.5°	42.1	41.8	41.5	41.7	41.5	41.8	42.1	42.2	42.8	42.9	43.7
70°	37.4	37.2	37.1	37.1	37.1	37.2	37.4	37.8	38.2	38.5	39.4
72.5°	32.8	32.8	32.6	32.5	32.6	32.8	32.8	33.5	33.7	34.1	34.6
75°	26.3	25.9	25.9	25.9	25.9	25.9	26.3	26.5	26.6	27.2	27.6
77.5°	20.0	19.8	19.6	19.5	19.6	19.8	20.0	20.0	20.4	20.4	20.8
80°	15.8	15.7	15.4	15.4	15.4	15.7	15.8	16.0	16.0	16.6	16.4
82.5°	12.1	11.9	11.9	11.7	11.9	11.9	12.1	12.1	12.1	12.5	12.5
85°	6.5	6.7	6.5	6.8	6.5	6.7	6.5	6.3	6.5	6.8	6.8
87.5°	5.6	5.5	5.7	5.6	5.7	5.5	5.6	5.5	5.5	5.4	5.2
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: P331633-927

CATALOG NUMBER: SA2XXRDIP-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: P331633-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	498.0	500.0	503.0	504.8	507.6	509.5	510.6	512.4	513.4	517.1	520.8
5°	470.2	473.1	478.1	482.8	487.8	493.1	496.9	501.1	505.1	511.9	519.1
7.5°	438.3	442.3	450.1	457.6	466.4	473.7	480.2	487.6	494.2	504.0	514.2
10°	414.4	421.4	431.7	438.7	450.2	457.6	467.9	475.9	485.1	498.1	509.6
12.5°	393.8	402.3	410.5	420.3	430.6	442.9	454.2	464.6	475.5	488.9	502.4
15°	356.5	368.7	381.5	391.4	405.4	418.4	431.5	445.5	458.8	474.9	492.5
17.5°	308.4	322.6	344.0	361.0	377.5	390.5	406.8	423.7	439.4	458.8	478.4
20°	286.7	297.1	311.6	334.5	359.3	373.2	389.8	408.4	426.4	447.5	468.6
22.5°	269.3	278.5	290.2	308.0	335.7	354.7	371.9	390.9	411.8	433.2	456.6
25°	244.4	250.8	263.1	277.5	296.5	327.6	346.6	365.7	388.3	411.4	438.0
27.5°	225.7	231.6	239.5	253.2	267.4	289.8	319.8	340.6	363.2	389.1	416.8
30°	211.4	218.2	227.1	236.8	252.3	269.7	299.8	323.9	346.2	372.9	402.3
32.5°	201.1	206.4	214.0	223.9	236.7	253.5	277.5	306.7	328.5	356.6	387.4
35°	184.1	190.4	196.5	205.9	216.3	231.6	249.8	281.1	302.7	330.3	361.3
37.5°	170.1	174.0	180.7	188.1	199.2	210.6	226.3	254.4	277.7	304.9	336.6
40°	159.5	164.3	169.3	177.6	186.6	197.6	213.0	233.9	260.7	287.4	318.3
42.5°	149.1	155.2	160.6	166.1	175.9	187.0	199.6	217.2	244.6	269.8	299.9
45°	136.6	140.5	146.1	152.3	160.3	169.7	180.9	196.3	222.6	244.4	272.6
47.5°	122.1	127.9	131.5	137.4	145.1	154.1	164.5	177.8	199.1	219.5	245.7
50°	112.1	118.0	123.3	128.7	135.5	144.1	152.8	165.7	182.8	204.2	228.7
52.5°	103.6	108.8	113.9	119.3	126.0	133.9	142.1	153.5	168.1	187.8	211.6
55°	92.0	95.2	100.4	105.8	111.8	119.3	127.2	136.7	149.3	165.9	185.1
57.5°	80.0	83.7	87.9	93.3	99.3	105.1	112.3	120.9	130.8	145.8	162.2
60°	73.3	76.1	79.5	85.1	90.7	95.9	102.7	110.0	119.3	132.3	146.3
62.5°	65.8	68.5	71.6	76.4	81.9	86.7	92.7	100.3	108.2	120.0	132.3
65°	53.2	57.2	60.3	64.6	69.1	74.1	78.8	84.9	92.0	101.3	112.3
67.5°	44.1	46.2	49.0	52.9	57.5	61.9	66.3	71.1	77.2	84.4	93.1
70°	40.2	40.9	41.4	45.2	49.5	53.8	57.9	62.4	67.7	73.6	81.1
72.5°	35.4	36.1	36.8	38.4	41.8	46.2	50.5	53.8	58.7	63.7	69.8
75°	28.0	29.2	29.7	30.6	31.8	34.7	38.7	41.9	44.8	48.6	53.5
77.5°	21.4	22.0	22.6	23.5	24.3	25.6	27.9	30.7	33.5	35.6	39.0
80°	17.0	17.1	17.8	18.1	19.3	20.1	21.2	23.6	26.3	27.2	29.5
82.5°	12.8	12.9	13.5	13.9	14.3	15.1	16.5	17.1	19.3	20.4	21.9
85°	7.1	6.8	7.4	7.4	7.8	8.1	8.5	9.3	9.9	11.3	11.7
87.5°	5.2	5.1	4.9	4.7	4.4	4.4	4.3	4.1	4.0	4.1	4.4
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: P331633-927

CATALOG NUMBER: SA2XXRDIP-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: P331633-927

CATALOG NUMBER: SA2XXRDIP-C290D925U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	520.9	521.3	524.2	525.5	528.1	529.1	530.3	530.0	530.0	530.5	534.6
5°	522.0	525.6	531.0	536.2	541.3	545.6	548.5	551.4	552.5	557.6	562.3
7.5°	520.1	526.8	535.7	543.7	553.2	560.6	566.8	572.4	576.2	583.8	591.6
10°	517.7	527.0	537.1	547.4	560.5	570.5	580.5	588.3	590.7	602.1	608.6
12.5°	512.8	525.3	538.1	551.4	564.3	577.9	589.0	596.8	605.6	615.8	627.7
15°	505.5	519.8	536.6	553.7	572.0	588.6	600.5	613.9	623.7	634.9	645.3
17.5°	495.0	513.5	534.7	554.5	575.8	593.5	609.9	622.8	629.6	636.0	637.5
20°	486.6	506.5	531.6	554.9	576.2	596.7	612.9	623.7	625.5	625.7	616.2
22.5°	477.5	500.1	526.2	550.2	575.6	598.4	611.0	615.6	608.5	596.3	577.8
25°	460.8	487.0	517.4	544.7	572.4	594.0	598.3	590.3	565.2	538.9	505.6
27.5°	442.8	472.1	504.7	535.1	564.7	578.1	568.7	539.5	494.5	455.3	407.8
30°	429.5	462.5	494.5	528.5	555.9	561.6	540.2	497.2	444.7	385.6	338.3
32.5°	414.4	448.9	484.1	519.3	542.2	536.5	501.2	448.2	386.7	328.6	283.9
35°	392.8	428.4	466.4	501.7	516.3	491.9	439.0	370.1	307.1	253.0	222.2
37.5°	367.9	406.7	446.2	478.6	477.5	437.0	365.0	293.8	240.9	208.8	187.0
40°	350.1	389.4	432.1	459.4	447.7	395.0	316.9	249.8	211.0	185.5	169.5
42.5°	333.2	372.6	414.9	436.7	416.3	351.5	273.7	221.1	189.2	169.3	156.3
45°	304.3	345.9	385.1	397.1	360.8	289.4	221.3	183.2	161.9	147.2	138.2
47.5°	276.0	317.0	352.8	352.9	303.8	234.6	186.7	158.5	140.4	129.0	122.5
50°	258.7	297.6	327.6	323.0	267.2	208.7	167.0	142.7	127.6	118.7	111.9
52.5°	239.3	277.0	303.1	289.8	236.2	183.7	149.2	128.9	116.4	108.7	102.6
55°	211.0	244.5	262.9	242.7	192.7	152.8	126.1	110.1	100.8	94.3	89.0
57.5°	183.3	211.0	222.4	199.0	158.8	126.7	106.7	94.7	85.4	80.7	78.0
60°	165.9	189.5	197.6	171.7	138.0	110.8	94.5	83.3	76.4	73.4	70.7
62.5°	148.8	168.0	171.3	147.7	120.3	97.0	82.9	73.5	69.0	66.1	63.5
65°	123.4	137.3	135.7	116.6	95.2	77.0	66.8	61.0	57.6	53.5	49.0
67.5°	101.6	110.1	105.0	90.7	72.6	59.9	53.2	48.8	44.5	40.6	39.6
70°	87.8	92.7	87.3	74.1	59.6	50.2	44.8	39.6	37.1	36.2	34.5
72.5°	74.5	76.3	70.4	59.2	48.5	41.6	36.3	33.4	32.0	31.3	30.3
75°	55.9	54.7	49.7	40.9	33.7	29.0	27.3	26.3	25.3	24.6	24.1
77.5°	39.3	37.5	33.0	27.2	23.4	21.2	20.2	19.6	19.3	18.9	18.3
80°	29.5	28.3	23.8	19.4	17.8	16.7	16.2	15.4	15.4	15.1	14.6
82.5°	21.6	20.2	16.2	14.3	13.4	12.7	12.3	11.9	11.7	11.8	11.4
85°	11.3	9.2	8.1	7.8	7.2	6.8	7.1	6.7	6.7	6.7	6.5
87.5°	4.0	3.6	3.8	4.0	4.4	4.7	4.8	5.1	5.5	5.5	5.8
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: P331633-927

CATALOG NUMBER: SA2XXRDIP-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°	517.8	517.8	517.8	517.8	517.8	517.8	517.8
2.5°	536.0	537.9	538.8	538.8	539.8	539.3	538.9
5°	566.8	570.2	571.0	574.2	576.6	575.8	576.2
7.5°	597.5	602.9	608.4	610.9	611.2	612.7	613.2
10°	616.3	620.8	629.2	628.0	634.3	637.9	632.0
12.5°	634.5	640.6	646.4	648.0	651.6	652.8	650.4
15°	650.9	654.1	654.4	653.6	654.7	653.7	650.3
17.5°	635.6	630.3	619.6	614.6	610.6	604.7	602.3
20°	610.2	594.7	576.7	569.5	561.1	544.5	548.5
22.5°	555.5	537.9	519.8	498.8	488.8	473.1	472.1
25°	470.4	440.0	406.5	383.1	369.4	353.8	346.9
27.5°	365.8	327.4	300.0	286.1	273.5	261.1	260.5
30°	296.9	268.2	246.9	235.0	227.3	222.0	223.2
32.5°	250.3	230.5	216.2	206.4	200.7	196.7	196.6
35°	204.6	191.1	181.9	177.8	173.6	170.8	171.0
37.5°	175.1	167.0	161.8	157.3	154.7	153.3	152.5
40°	159.9	153.3	149.3	146.6	144.5	142.5	142.1
42.5°	148.1	142.5	138.6	136.4	134.4	133.0	132.7
45°	131.3	126.8	123.3	120.9	120.0	118.7	118.7
47.5°	116.8	112.4	109.6	108.1	106.6	105.8	105.8
50°	107.1	103.6	101.2	100.2	98.9	98.5	98.2
52.5°	98.3	95.7	94.0	93.3	92.8	92.1	92.2
55°	86.3	84.9	84.2	83.7	82.8	81.7	82.4
57.5°	76.4	75.1	73.2	71.5	70.7	69.9	70.2
60°	69.3	66.8	64.2	62.3	61.7	60.1	60.1
62.5°	60.4	56.8	53.7	52.6	52.0	51.3	51.2
65°	46.4	45.0	44.3	43.6	43.2	43.2	42.9
67.5°	38.5	37.9	37.1	36.9	36.6	36.4	36.4
70°	34.0	33.3	33.0	32.7	32.4	32.6	32.0
72.5°	29.7	29.2	29.1	28.6	28.4	28.4	28.0
75°	23.4	23.4	23.2	23.1	22.7	22.5	22.7
77.5°	18.0	18.1	17.7	17.7	17.7	17.7	17.5
80°	14.4	14.6	14.4	14.2	14.0	14.2	14.0
82.5°	11.4	11.1	11.1	11.0	11.0	10.9	10.9
85°	6.5	6.7	6.5	6.3	6.3	6.3	6.5
87.5°	5.9	6.0	6.1	6.2	6.3	6.3	6.2
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)