

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: P331627-927

Luminaire Tested: **SA2XXRDIP-C290D725U927-4F0-1E-UDD-A**

Issue Date: 10/7/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P331627-927  
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-C290D725U927-4F0-1E-UDD-A  
Description: DEFINE 2 DIRECT-INDIRECT PENDANT LED LUMINAIRE  
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING  
UPLIGHT 725 LUMENS PER FOOT, NO LENS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3192.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 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

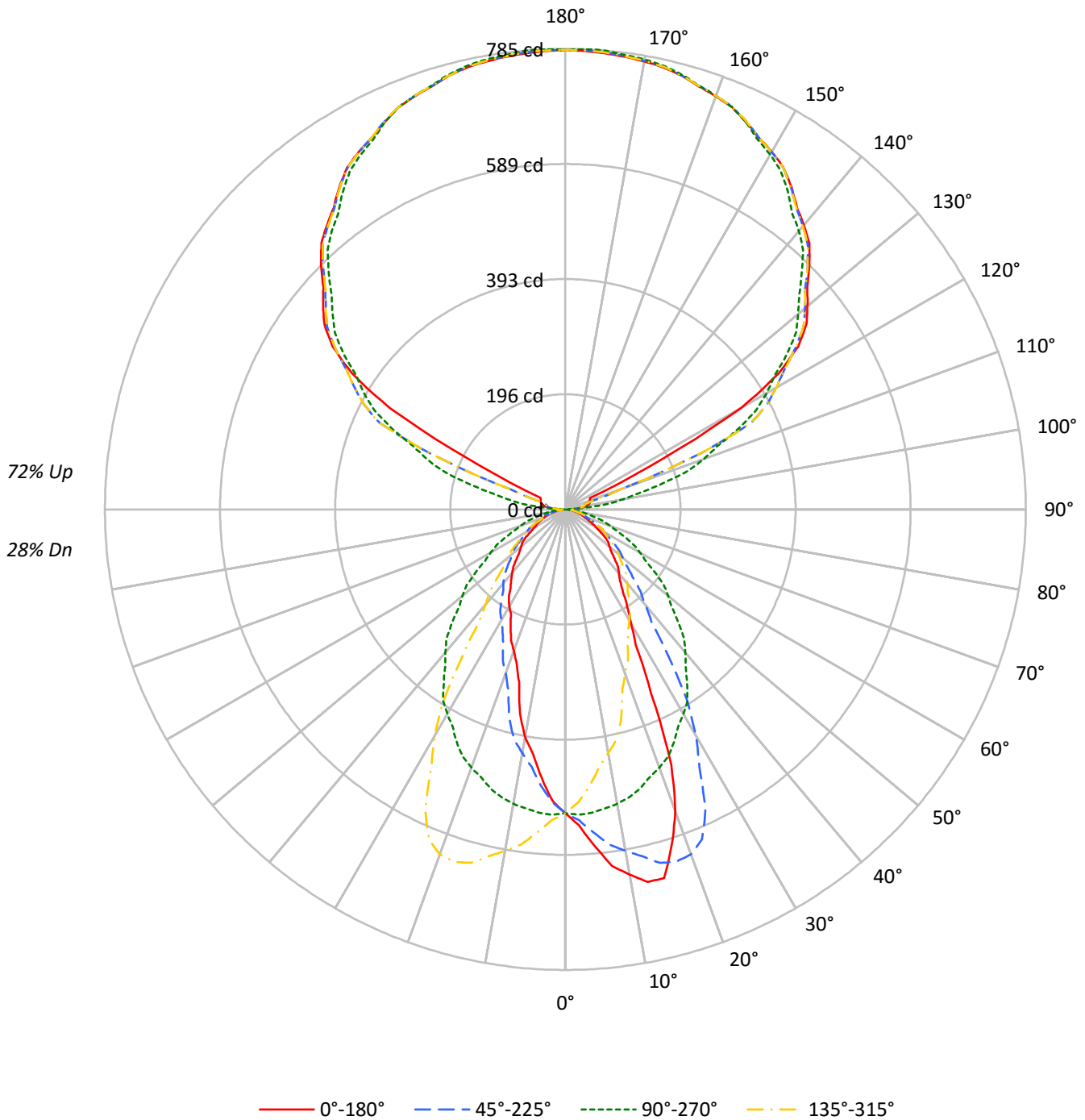
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	86	82	83	80	77	74	63	61	59	47	46	45	32	32	31	24
2	85	78	73	68	76	70	66	62	56	52	50	42	40	38	29	28	27	21
3	78	69	63	57	70	62	57	52	49	45	42	37	35	33	26	25	23	19
4	72	62	54	49	64	56	49	44	44	40	36	34	31	28	24	22	21	16
5	66	55	47	42	59	50	43	38	40	35	32	30	27	25	22	20	18	15
6	61	49	42	36	54	45	38	33	36	31	28	28	24	22	20	18	16	13
7	56	45	37	32	50	40	34	29	33	28	24	25	22	20	18	16	15	12
8	52	41	33	28	47	37	31	26	30	25	22	23	20	18	17	15	13	11
9	48	37	30	25	44	34	28	23	27	23	20	21	18	16	16	14	12	10
10	45	34	27	23	41	31	25	21	25	21	18	20	17	14	15	13	11	9

**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	1.5
10°-20°	136.8	4.3
20°-30°	176.3	5.5
30°-40°	167.5	5.2
40°-50°	143.5	4.5
50°-60°	109.3	3.4
60°-70°	69.1	2.2
70°-80°	34.5	1.1
80°-90°	10.9	0.3
90°-100°	26.1	0.8
100°-110°	95.8	3.0
110°-120°	256.1	8.0
120°-130°	422.7	13.2
130°-140°	449.6	14.1
140°-150°	417.8	13.1
150°-160°	335.9	10.5
160°-170°	216.5	6.8
170°-180°	74.5	2.3
0°-30°	362.2	11.3
0°-40°	529.7	16.6
0°-60°	782.5	24.5
0°-90°	896.9	28.1
90°-120°	378.0	11.8
90°-150°	1668.1	52.3
90°-180°	2295.0	71.9
0°-180°	3192.0	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°	15	1	15	1	15	7
95°	24	37	24	37	24	23
105°	43	172	43	172	43	45
115°	46	326	46	326	46	116
125°	484	461	484	461	484	419
135°	589	570	589	570	589	454
145°	672	661	672	661	672	420
155°	729	728	729	728	729	336
165°	766	767	766	767	766	216
175°	780	785	780	785	780	74
180°	783	783	783	783	783	



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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°	5.4	5.5	5.4	5.4	5.3	5.2	5.1	5.1	4.8	4.8	4.5
90°	15.3	15.1	14.8	14.6	14.3	13.9	13.2	12.6	12.0	11.3	10.3
92.5°	15.3	15.1	15.0	14.8	14.7	14.4	14.1	13.8	13.5	13.2	12.7
95°	24.4	24.5	24.6	24.7	24.9	24.6	24.0	23.4	22.7	22.1	21.2
97.5°	32.6	32.4	32.2	32.1	31.9	31.6	31.1	30.6	30.1	29.5	27.6
100°	37.9	37.7	37.5	37.2	37.0	36.4	35.3	34.3	33.3	32.3	30.2
102.5°	40.7	40.3	40.0	39.6	39.3	38.4	37.2	35.8	34.5	33.2	31.1
105°	43.1	42.5	42.1	41.6	41.0	40.1	38.7	37.3	36.0	34.5	32.9
107.5°	44.3	43.8	43.3	42.8	42.3	42.8	44.1	45.6	47.0	48.4	49.9
110°	44.8	44.3	43.7	43.3	42.8	48.8	61.4	74.0	86.6	99.2	135.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	45.2	44.8	44.4	44.0	43.6	66.4	112.3	158.3	204.2	250.1	259.1
115°	46.5	55.5	64.6	73.7	82.7	116.5	174.8	233.1	291.4	349.7	346.5
117.5°	189.7	219.5	249.3	279.1	308.9	330.8	344.9	359.1	373.2	387.3	385.1
120°	345.7	362.7	379.7	396.6	413.7	421.4	419.9	418.4	416.8	415.3	413.1
122.5°	431.3	434.7	437.9	441.2	444.6	445.8	444.8	443.9	443.0	442.1	439.7
125°	484.5	484.1	483.8	483.4	483.0	482.4	481.5	480.6	479.7	478.9	476.4
127.5°	518.1	518.0	517.9	517.8	517.8	517.1	515.8	514.5	513.3	511.9	510.2
130°	538.9	539.0	539.2	539.3	539.4	538.8	537.4	536.0	534.6	533.2	531.9
132.5°	559.3	559.4	559.6	559.7	559.8	559.3	558.1	556.9	555.7	554.5	553.2
135°	588.7	589.0	589.3	589.5	589.8	589.3	588.0	586.8	585.5	584.2	583.1
137.5°	615.6	616.1	616.5	617.0	617.3	617.0	615.7	614.5	613.2	612.0	610.7
140°	632.4	633.0	633.7	634.3	634.9	634.7	633.5	632.4	631.3	630.2	628.8
142.5°	648.7	649.4	650.0	650.6	651.3	651.0	650.0	649.0	647.9	646.9	645.3
145°	671.5	672.2	672.8	673.4	674.0	673.9	673.0	672.2	671.3	670.3	668.2
147.5°	691.6	692.1	692.6	693.2	693.7	693.6	693.0	692.3	691.7	691.0	688.9
150°	703.8	704.4	705.0	705.7	706.3	706.2	705.5	704.7	704.0	703.2	701.2
152.5°	714.2	715.1	715.9	716.8	717.6	717.6	716.8	716.1	715.3	714.5	712.6
155°	728.7	729.8	730.8	731.7	732.8	732.9	732.1	731.4	730.6	729.8	728.3
157.5°	742.0	743.0	743.9	745.0	745.9	746.0	745.1	744.3	743.5	742.6	741.5
160°	749.7	750.6	751.5	752.3	753.2	753.3	752.6	751.8	751.1	750.3	749.5
162.5°	756.1	757.2	758.2	759.3	760.4	760.5	759.6	758.8	758.0	757.1	756.5
165°	765.6	766.4	767.3	768.3	769.1	769.1	768.3	767.3	766.4	765.6	765.2
167.5°	771.6	772.7	773.9	775.0	776.1	776.3	775.4	774.5	773.6	772.7	772.4
170°	775.2	776.3	777.4	778.6	779.7	779.9	779.0	778.1	777.2	776.3	776.1
172.5°	777.9	779.0	780.2	781.3	782.4	782.6	781.7	780.9	780.0	779.0	778.8
175°	780.3	781.6	782.8	784.1	785.4	785.5	784.7	783.8	782.9	782.0	781.7
177.5°	781.8	782.7	783.6	784.5	785.4	785.5	784.8	784.1	783.4	782.7	782.6
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



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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°	4.3	4.3	4.0	3.6	3.6	3.4	3.9	4.3	4.0	3.8	3.8
90°	9.3	8.3	7.3	6.1	4.8	3.3	2.0	0.6	2.0	3.3	4.8
92.5°	12.1	11.6	11.2	10.9	11.1	11.2	11.3	11.4	11.3	11.2	11.1
95°	20.4	19.5	18.5	20.2	24.4	28.5	32.7	36.8	32.7	28.5	24.4
97.5°	25.5	23.4	21.4	26.2	37.9	49.7	61.4	73.1	61.4	49.7	37.9
100°	28.0	25.9	23.8	31.3	48.6	65.8	83.0	100.3	83.0	65.8	48.6
102.5°	69.0	86.9	104.8	115.6	119.3	122.9	126.6	130.2	126.6	122.9	119.3
105°	103.3	137.7	172.1	187.4	183.6	179.8	176.0	172.3	176.0	179.8	183.6
107.5°	130.9	172.1	213.3	232.4	229.3	226.3	223.2	220.2	223.2	226.3	229.3
110°	172.0	208.3	244.7	261.6	259.0	256.4	253.7	251.0	253.7	256.4	259.0





TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	268.1	277.1	286.1	289.4	287.1	284.7	282.4	280.0	282.4	284.7	287.1
115°	343.3	340.2	337.1	334.4	332.2	330.1	328.0	325.8	328.0	330.1	332.2
117.5°	382.9	380.8	378.6	376.3	373.9	371.5	369.2	366.8	369.2	371.5	373.9
120°	410.8	408.6	406.3	404.3	402.3	400.4	398.5	396.6	398.5	400.4	402.3
122.5°	437.2	434.7	432.2	430.0	428.0	426.0	424.1	422.1	424.1	426.0	428.0
125°	474.0	471.7	469.3	467.2	465.6	464.0	462.3	460.7	462.3	464.0	465.6
127.5°	508.3	506.6	504.8	503.0	501.1	499.4	497.6	495.7	497.6	499.4	501.1
130°	530.4	529.1	527.7	526.0	523.9	522.0	520.0	517.9	520.0	522.0	523.9
132.5°	551.8	550.4	549.0	547.5	545.7	544.1	542.3	540.6	542.3	544.1	545.7
135°	581.9	580.8	579.7	578.1	576.2	574.1	572.1	570.1	572.1	574.1	576.2
137.5°	609.4	608.2	606.9	605.5	604.1	602.7	601.3	599.9	601.3	602.7	604.1
140°	627.4	626.0	624.6	623.4	622.4	621.4	620.4	619.4	620.4	621.4	622.4
142.5°	643.7	642.1	640.6	639.3	638.4	637.5	636.6	635.7	636.6	637.5	638.4
145°	666.1	663.9	661.8	660.8	660.9	661.1	661.2	661.3	661.2	661.1	660.9
147.5°	686.7	684.7	682.5	681.8	682.2	682.7	683.2	683.7	683.2	682.7	682.2
150°	699.2	697.2	695.2	694.6	695.5	696.4	697.3	698.2	697.3	696.4	695.5
152.5°	710.7	708.8	706.9	706.5	707.4	708.4	709.4	710.3	709.4	708.4	707.4
155°	726.8	725.3	723.8	723.7	724.8	725.9	727.1	728.2	727.1	725.9	724.8
157.5°	740.5	739.4	738.3	738.3	739.3	740.2	741.2	742.1	741.2	740.2	739.3
160°	748.8	748.0	747.3	747.3	748.0	748.8	749.5	750.3	749.5	748.8	748.0
162.5°	755.7	755.1	754.5	754.5	755.3	756.1	756.8	757.6	756.8	756.1	755.3
165°	764.9	764.5	764.1	764.2	765.0	765.8	766.5	767.3	766.5	765.8	765.0
167.5°	772.0	771.7	771.3	771.5	772.3	773.0	773.8	774.5	773.8	773.0	772.3
170°	775.9	775.6	775.3	775.6	776.3	777.1	777.8	778.6	777.8	777.1	776.3
172.5°	778.6	778.3	778.1	778.3	779.0	779.8	780.5	781.3	780.5	779.8	779.0
175°	781.5	781.3	781.0	781.3	782.2	783.1	783.9	784.8	783.9	783.1	782.2
177.5°	782.5	782.4	782.3	782.6	783.3	784.0	784.7	785.4	784.7	784.0	783.3
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-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°	4.0	4.0	4.0	4.2	4.4	4.4	4.5	4.5	4.7	4.8	4.8
90°	6.1	7.3	8.3	9.3	10.3	11.3	12.0	12.6	13.2	13.9	14.3
92.5°	10.9	11.2	11.6	12.1	12.7	13.2	13.5	13.8	14.1	14.4	14.7
95°	20.2	18.5	19.5	20.4	21.2	22.1	22.7	23.4	24.0	24.6	24.9
97.5°	26.2	21.4	23.4	25.5	27.6	29.5	30.1	30.6	31.1	31.6	31.9
100°	31.3	23.8	25.9	28.0	30.2	32.3	33.3	34.3	35.3	36.4	37.0
102.5°	115.6	104.8	86.9	69.0	51.1	33.2	34.5	35.8	37.2	38.4	39.3
105°	187.4	172.1	137.7	103.3	68.9	34.5	36.0	37.3	38.7	40.1	41.0
107.5°	232.4	213.3	172.1	130.9	89.6	48.4	47.0	45.6	44.1	42.8	42.3
110°	261.6	244.7	208.3	172.0	135.5	99.2	86.6	74.0	61.4	48.8	42.8



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	289.4	286.1	277.1	268.1	259.1	250.1	204.2	158.3	112.3	66.4	43.6
115°	334.4	337.1	340.2	343.3	346.5	349.7	291.4	233.1	174.8	116.5	82.7
117.5°	376.3	378.6	380.8	382.9	385.1	387.3	373.2	359.1	344.9	330.8	308.9
120°	404.3	406.3	408.6	410.8	413.1	415.3	416.8	418.4	419.9	421.4	413.7
122.5°	430.0	432.2	434.7	437.2	439.7	442.1	443.0	443.9	444.8	445.8	444.6
125°	467.2	469.3	471.7	474.0	476.4	478.9	479.7	480.6	481.5	482.4	483.0
127.5°	503.0	504.8	506.6	508.3	510.2	511.9	513.3	514.5	515.8	517.1	517.8
130°	526.0	527.7	529.1	530.4	531.9	533.2	534.6	536.0	537.4	538.8	539.4
132.5°	547.5	549.0	550.4	551.8	553.2	554.5	555.7	556.9	558.1	559.3	559.8
135°	578.1	579.7	580.8	581.9	583.1	584.2	585.5	586.8	588.0	589.3	589.8
137.5°	605.5	606.9	608.2	609.4	610.7	612.0	613.2	614.5	615.7	617.0	617.3
140°	623.4	624.6	626.0	627.4	628.8	630.2	631.3	632.4	633.5	634.7	634.9
142.5°	639.3	640.6	642.1	643.7	645.3	646.9	647.9	649.0	650.0	651.0	651.3
145°	660.8	661.8	663.9	666.1	668.2	670.3	671.3	672.2	673.0	673.9	674.0
147.5°	681.8	682.5	684.7	686.7	688.9	691.0	691.7	692.3	693.0	693.6	693.7
150°	694.6	695.2	697.2	699.2	701.2	703.2	704.0	704.7	705.5	706.2	706.3
152.5°	706.5	706.9	708.8	710.7	712.6	714.5	715.3	716.1	716.8	717.6	717.6
155°	723.7	723.8	725.3	726.8	728.3	729.8	730.6	731.4	732.1	732.9	732.8
157.5°	738.3	738.3	739.4	740.5	741.5	742.6	743.5	744.3	745.1	746.0	745.9
160°	747.3	747.3	748.0	748.8	749.5	750.3	751.1	751.8	752.6	753.3	753.2
162.5°	754.5	754.5	755.1	755.7	756.5	757.1	758.0	758.8	759.6	760.5	760.4
165°	764.2	764.1	764.5	764.9	765.2	765.6	766.4	767.3	768.3	769.1	769.1
167.5°	771.5	771.3	771.7	772.0	772.4	772.7	773.6	774.5	775.4	776.3	776.1
170°	775.6	775.3	775.6	775.9	776.1	776.3	777.2	778.1	779.0	779.9	779.7
172.5°	778.3	778.1	778.3	778.6	778.8	779.0	780.0	780.9	781.7	782.6	782.4
175°	781.3	781.0	781.3	781.5	781.7	782.0	782.9	783.8	784.7	785.5	785.4
177.5°	782.6	782.3	782.4	782.5	782.6	782.7	783.4	784.1	784.8	785.5	785.4
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**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°	4.8	4.7	4.9	4.8	4.9	4.7	4.8	4.8	4.8	4.7	4.5
90°	14.6	14.8	15.1	15.3	15.1	14.8	14.6	14.3	13.9	13.2	12.6
92.5°	14.8	15.0	15.1	15.3	15.1	15.0	14.8	14.7	14.4	14.1	13.8
95°	24.7	24.6	24.5	24.4	24.5	24.6	24.7	24.9	24.6	24.0	23.4
97.5°	32.1	32.2	32.4	32.6	32.4	32.2	32.1	31.9	31.6	31.1	30.6
100°	37.2	37.5	37.7	37.9	37.7	37.5	37.2	37.0	36.4	35.3	34.3
102.5°	39.6	40.0	40.3	40.7	40.3	40.0	39.6	39.3	38.4	37.2	35.8
105°	41.6	42.1	42.5	43.1	42.5	42.1	41.6	41.0	40.1	38.7	37.3
107.5°	42.8	43.3	43.8	44.3	43.8	43.3	42.8	42.3	42.8	44.1	45.6
110°	43.3	43.7	44.3	44.8	44.3	43.7	43.3	42.8	48.8	61.4	74.0



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	44.0	44.4	44.8	45.2	44.8	44.4	44.0	43.6	66.4	112.3	158.3
115°	73.7	64.6	55.5	46.5	55.5	64.6	73.7	82.7	116.5	174.8	233.1
117.5°	279.1	249.3	219.5	189.7	219.5	249.3	279.1	308.9	330.8	344.9	359.1
120°	396.6	379.7	362.7	345.7	362.7	379.7	396.6	413.7	421.4	419.9	418.4
122.5°	441.2	437.9	434.7	431.3	434.7	437.9	441.2	444.6	445.8	444.8	443.9
125°	483.4	483.8	484.1	484.5	484.1	483.8	483.4	483.0	482.4	481.5	480.6
127.5°	517.8	517.9	518.0	518.1	518.0	517.9	517.8	517.8	517.1	515.8	514.5
130°	539.3	539.2	539.0	538.9	539.0	539.2	539.3	539.4	538.8	537.4	536.0
132.5°	559.7	559.6	559.4	559.3	559.4	559.6	559.7	559.8	559.3	558.1	556.9
135°	589.5	589.3	589.0	588.7	589.0	589.3	589.5	589.8	589.3	588.0	586.8
137.5°	617.0	616.5	616.1	615.6	616.1	616.5	617.0	617.3	617.0	615.7	614.5
140°	634.3	633.7	633.0	632.4	633.0	633.7	634.3	634.9	634.7	633.5	632.4
142.5°	650.6	650.0	649.4	648.7	649.4	650.0	650.6	651.3	651.0	650.0	649.0
145°	673.4	672.8	672.2	671.5	672.2	672.8	673.4	674.0	673.9	673.0	672.2
147.5°	693.2	692.6	692.1	691.6	692.1	692.6	693.2	693.7	693.6	693.0	692.3
150°	705.7	705.0	704.4	703.8	704.4	705.0	705.7	706.3	706.2	705.5	704.7
152.5°	716.8	715.9	715.1	714.2	715.1	715.9	716.8	717.6	717.6	716.8	716.1
155°	731.7	730.8	729.8	728.7	729.8	730.8	731.7	732.8	732.9	732.1	731.4
157.5°	745.0	743.9	743.0	742.0	743.0	743.9	745.0	745.9	746.0	745.1	744.3
160°	752.3	751.5	750.6	749.7	750.6	751.5	752.3	753.2	753.3	752.6	751.8
162.5°	759.3	758.2	757.2	756.1	757.2	758.2	759.3	760.4	760.5	759.6	758.8
165°	768.3	767.3	766.4	765.6	766.4	767.3	768.3	769.1	769.1	768.3	767.3
167.5°	775.0	773.9	772.7	771.6	772.7	773.9	775.0	776.1	776.3	775.4	774.5
170°	778.6	777.4	776.3	775.2	776.3	777.4	778.6	779.7	779.9	779.0	778.1
172.5°	781.3	780.2	779.0	777.9	779.0	780.2	781.3	782.4	782.6	781.7	780.9
175°	784.1	782.8	781.6	780.3	781.6	782.8	784.1	785.4	785.5	784.7	783.8
177.5°	784.5	783.6	782.7	781.8	782.7	783.6	784.5	785.4	785.5	784.8	784.1
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-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°	4.5	4.4	4.4	4.2	4.0	4.0	4.0	3.8	3.8	4.0	4.3
90°	12.0	11.3	10.3	9.3	8.3	7.3	6.1	4.8	3.3	2.0	0.6
92.5°	13.5	13.2	12.7	12.1	11.6	11.2	10.9	11.1	11.2	11.3	11.4
95°	22.7	22.1	21.2	20.4	19.5	18.5	20.2	24.4	28.5	32.7	36.8
97.5°	30.1	29.5	27.6	25.5	23.4	21.4	26.2	37.9	49.7	61.4	73.1
100°	33.3	32.3	30.2	28.0	25.9	23.8	31.3	48.6	65.8	83.0	100.3
102.5°	34.5	33.2	51.1	69.0	86.9	104.8	115.6	119.3	122.9	126.6	130.2
105°	36.0	34.5	68.9	103.3	137.7	172.1	187.4	183.6	179.8	176.0	172.3
107.5°	47.0	48.4	89.6	130.9	172.1	213.3	232.4	229.3	226.3	223.2	220.2
110°	86.6	99.2	135.5	172.0	208.3	244.7	261.6	259.0	256.4	253.7	251.0



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	204.2	250.1	259.1	268.1	277.1	286.1	289.4	287.1	284.7	282.4	280.0
115°	291.4	349.7	346.5	343.3	340.2	337.1	334.4	332.2	330.1	328.0	325.8
117.5°	373.2	387.3	385.1	382.9	380.8	378.6	376.3	373.9	371.5	369.2	366.8
120°	416.8	415.3	413.1	410.8	408.6	406.3	404.3	402.3	400.4	398.5	396.6
122.5°	443.0	442.1	439.7	437.2	434.7	432.2	430.0	428.0	426.0	424.1	422.1
125°	479.7	478.9	476.4	474.0	471.7	469.3	467.2	465.6	464.0	462.3	460.7
127.5°	513.3	511.9	510.2	508.3	506.6	504.8	503.0	501.1	499.4	497.6	495.7
130°	534.6	533.2	531.9	530.4	529.1	527.7	526.0	523.9	522.0	520.0	517.9
132.5°	555.7	554.5	553.2	551.8	550.4	549.0	547.5	545.7	544.1	542.3	540.6
135°	585.5	584.2	583.1	581.9	580.8	579.7	578.1	576.2	574.1	572.1	570.1
137.5°	613.2	612.0	610.7	609.4	608.2	606.9	605.5	604.1	602.7	601.3	599.9
140°	631.3	630.2	628.8	627.4	626.0	624.6	623.4	622.4	621.4	620.4	619.4
142.5°	647.9	646.9	645.3	643.7	642.1	640.6	639.3	638.4	637.5	636.6	635.7
145°	671.3	670.3	668.2	666.1	663.9	661.8	660.8	660.9	661.1	661.2	661.3
147.5°	691.7	691.0	688.9	686.7	684.7	682.5	681.8	682.2	682.7	683.2	683.7
150°	704.0	703.2	701.2	699.2	697.2	695.2	694.6	695.5	696.4	697.3	698.2
152.5°	715.3	714.5	712.6	710.7	708.8	706.9	706.5	707.4	708.4	709.4	710.3
155°	730.6	729.8	728.3	726.8	725.3	723.8	723.7	724.8	725.9	727.1	728.2
157.5°	743.5	742.6	741.5	740.5	739.4	738.3	738.3	739.3	740.2	741.2	742.1
160°	751.1	750.3	749.5	748.8	748.0	747.3	747.3	748.0	748.8	749.5	750.3
162.5°	758.0	757.1	756.5	755.7	755.1	754.5	754.5	755.3	756.1	756.8	757.6
165°	766.4	765.6	765.2	764.9	764.5	764.1	764.2	765.0	765.8	766.5	767.3
167.5°	773.6	772.7	772.4	772.0	771.7	771.3	771.5	772.3	773.0	773.8	774.5
170°	777.2	776.3	776.1	775.9	775.6	775.3	775.6	776.3	777.1	777.8	778.6
172.5°	780.0	779.0	778.8	778.6	778.3	778.1	778.3	779.0	779.8	780.5	781.3
175°	782.9	782.0	781.7	781.5	781.3	781.0	781.3	782.2	783.1	783.9	784.8
177.5°	783.4	782.7	782.6	782.5	782.4	782.3	782.6	783.3	784.0	784.7	785.4
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-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°	3.9	3.4	3.6	3.6	4.0	4.3	4.3	4.5	4.8	4.8	5.1
90°	2.0	3.3	4.8	6.1	7.3	8.3	9.3	10.3	11.3	12.0	12.6
92.5°	11.3	11.2	11.1	10.9	11.2	11.6	12.1	12.7	13.2	13.5	13.8
95°	32.7	28.5	24.4	20.2	18.5	19.5	20.4	21.2	22.1	22.7	23.4
97.5°	61.4	49.7	37.9	26.2	21.4	23.4	25.5	27.6	29.5	30.1	30.6
100°	83.0	65.8	48.6	31.3	23.8	25.9	28.0	30.2	32.3	33.3	34.3
102.5°	126.6	122.9	119.3	115.6	104.8	86.9	69.0	51.1	33.2	34.5	35.8
105°	176.0	179.8	183.6	187.4	172.1	137.7	103.3	68.9	34.5	36.0	37.3
107.5°	223.2	226.3	229.3	232.4	213.3	172.1	130.9	89.6	48.4	47.0	45.6
110°	253.7	256.4	259.0	261.6	244.7	208.3	172.0	135.5	99.2	86.6	74.0





TEST NUMBER: P331627-927

CATALOG NUMBER: SA2XXRDIP-C290D725U927-4F0-1E-UDD-A

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	282.4	284.7	287.1	289.4	286.1	277.1	268.1	259.1	250.1	204.2	158.3
115°	328.0	330.1	332.2	334.4	337.1	340.2	343.3	346.5	349.7	291.4	233.1
117.5°	369.2	371.5	373.9	376.3	378.6	380.8	382.9	385.1	387.3	373.2	359.1
120°	398.5	400.4	402.3	404.3	406.3	408.6	410.8	413.1	415.3	416.8	418.4
122.5°	424.1	426.0	428.0	430.0	432.2	434.7	437.2	439.7	442.1	443.0	443.9
125°	462.3	464.0	465.6	467.2	469.3	471.7	474.0	476.4	478.9	479.7	480.6
127.5°	497.6	499.4	501.1	503.0	504.8	506.6	508.3	510.2	511.9	513.3	514.5
130°	520.0	522.0	523.9	526.0	527.7	529.1	530.4	531.9	533.2	534.6	536.0
132.5°	542.3	544.1	545.7	547.5	549.0	550.4	551.8	553.2	554.5	555.7	556.9
135°	572.1	574.1	576.2	578.1	579.7	580.8	581.9	583.1	584.2	585.5	586.8
137.5°	601.3	602.7	604.1	605.5	606.9	608.2	609.4	610.7	612.0	613.2	614.5
140°	620.4	621.4	622.4	623.4	624.6	626.0	627.4	628.8	630.2	631.3	632.4
142.5°	636.6	637.5	638.4	639.3	640.6	642.1	643.7	645.3	646.9	647.9	649.0
145°	661.2	661.1	660.9	660.8	661.8	663.9	666.1	668.2	670.3	671.3	672.2
147.5°	683.2	682.7	682.2	681.8	682.5	684.7	686.7	688.9	691.0	691.7	692.3
150°	697.3	696.4	695.5	694.6	695.2	697.2	699.2	701.2	703.2	704.0	704.7
152.5°	709.4	708.4	707.4	706.5	706.9	708.8	710.7	712.6	714.5	715.3	716.1
155°	727.1	725.9	724.8	723.7	723.8	725.3	726.8	728.3	729.8	730.6	731.4
157.5°	741.2	740.2	739.3	738.3	738.3	739.4	740.5	741.5	742.6	743.5	744.3
160°	749.5	748.8	748.0	747.3	747.3	748.0	748.8	749.5	750.3	751.1	751.8
162.5°	756.8	756.1	755.3	754.5	754.5	755.1	755.7	756.5	757.1	758.0	758.8
165°	766.5	765.8	765.0	764.2	764.1	764.5	764.9	765.2	765.6	766.4	767.3
167.5°	773.8	773.0	772.3	771.5	771.3	771.7	772.0	772.4	772.7	773.6	774.5
170°	777.8	777.1	776.3	775.6	775.3	775.6	775.9	776.1	776.3	777.2	778.1
172.5°	780.5	779.8	779.0	778.3	778.1	778.3	778.6	778.8	779.0	780.0	780.9
175°	783.9	783.1	782.2	781.3	781.0	781.3	781.5	781.7	782.0	782.9	783.8
177.5°	784.7	784.0	783.3	782.6	782.3	782.4	782.5	782.6	782.7	783.4	784.1
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2	783.2



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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°	5.1	5.2	5.3	5.4	5.4	5.5	5.4
90°	13.2	13.9	14.3	14.6	14.8	15.1	15.3
92.5°	14.1	14.4	14.7	14.8	15.0	15.1	15.3
95°	24.0	24.6	24.9	24.7	24.6	24.5	24.4
97.5°	31.1	31.6	31.9	32.1	32.2	32.4	32.6
100°	35.3	36.4	37.0	37.2	37.5	37.7	37.9
102.5°	37.2	38.4	39.3	39.6	40.0	40.3	40.7
105°	38.7	40.1	41.0	41.6	42.1	42.5	43.1
107.5°	44.1	42.8	42.3	42.8	43.3	43.8	44.3
110°	61.4	48.8	42.8	43.3	43.7	44.3	44.8



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**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	112.3	66.4	43.6	44.0	44.4	44.8	45.2
115°	174.8	116.5	82.7	73.7	64.6	55.5	46.5
117.5°	344.9	330.8	308.9	279.1	249.3	219.5	189.7
120°	419.9	421.4	413.7	396.6	379.7	362.7	345.7
122.5°	444.8	445.8	444.6	441.2	437.9	434.7	431.3
125°	481.5	482.4	483.0	483.4	483.8	484.1	484.5
127.5°	515.8	517.1	517.8	517.8	517.9	518.0	518.1
130°	537.4	538.8	539.4	539.3	539.2	539.0	538.9
132.5°	558.1	559.3	559.8	559.7	559.6	559.4	559.3
135°	588.0	589.3	589.8	589.5	589.3	589.0	588.7
137.5°	615.7	617.0	617.3	617.0	616.5	616.1	615.6
140°	633.5	634.7	634.9	634.3	633.7	633.0	632.4
142.5°	650.0	651.0	651.3	650.6	650.0	649.4	648.7
145°	673.0	673.9	674.0	673.4	672.8	672.2	671.5
147.5°	693.0	693.6	693.7	693.2	692.6	692.1	691.6
150°	705.5	706.2	706.3	705.7	705.0	704.4	703.8
152.5°	716.8	717.6	717.6	716.8	715.9	715.1	714.2
155°	732.1	732.9	732.8	731.7	730.8	729.8	728.7
157.5°	745.1	746.0	745.9	745.0	743.9	743.0	742.0
160°	752.6	753.3	753.2	752.3	751.5	750.6	749.7
162.5°	759.6	760.5	760.4	759.3	758.2	757.2	756.1
165°	768.3	769.1	769.1	768.3	767.3	766.4	765.6
167.5°	775.4	776.3	776.1	775.0	773.9	772.7	771.6
170°	779.0	779.9	779.7	778.6	777.4	776.3	775.2
172.5°	781.7	782.6	782.4	781.3	780.2	779.0	777.9
175°	784.7	785.5	785.4	784.1	782.8	781.6	780.3
177.5°	784.8	785.5	785.4	784.5	783.6	782.7	781.8
180°	783.2	783.2	783.2	783.2	783.2	783.2	783.2

(END OF REPORT)