

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: P331765-927

Luminaire Tested: **S122RDIW-S290D435U927-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331765-927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2,
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDIW-S290D435U927-4F0-1E-UDD-A
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, NO LENS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2267.5 lumens
Efficiency: N/A
Efficacy: 98.6 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

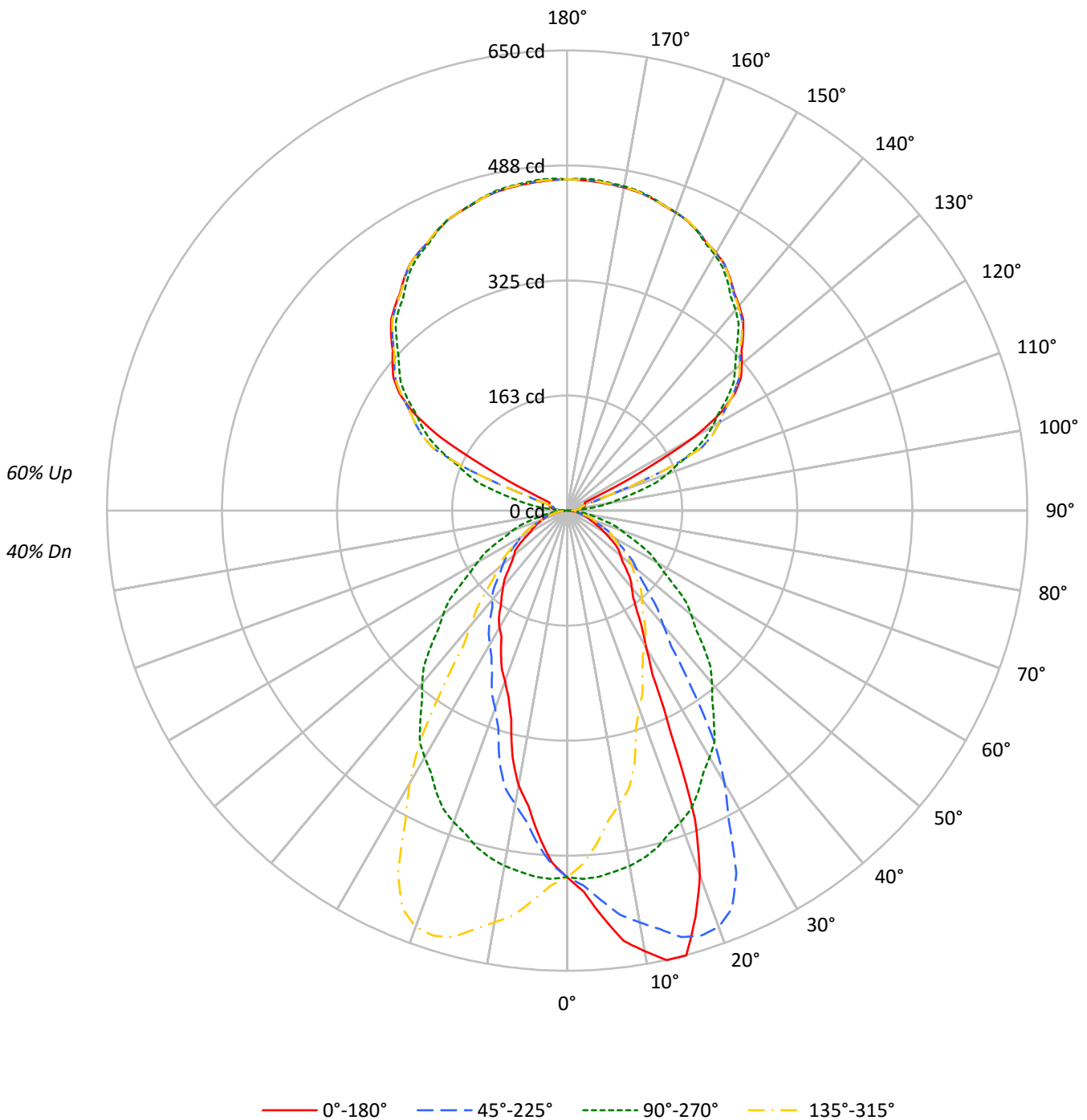
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	88	85	87	84	81	78	69	67	65	55	53	52	42	41	40	34
2	88	81	75	71	80	74	69	65	61	58	55	49	47	45	38	36	35	30
3	81	72	65	60	73	66	60	55	54	50	47	44	41	38	34	32	31	26
4	74	64	57	51	67	59	52	47	49	44	40	40	36	34	31	29	27	23
5	68	57	50	44	62	53	46	41	44	39	35	36	32	30	28	26	24	21
6	63	52	44	39	57	48	41	36	40	35	31	33	29	26	26	23	21	18
7	58	47	39	34	53	43	37	32	36	31	28	30	26	23	24	21	19	17
8	54	43	35	30	50	39	33	28	33	28	25	28	24	21	22	20	18	15
9	51	39	32	27	46	36	30	26	31	26	22	25	22	19	21	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	24	20	18	19	17	15	13

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	2.2
10°-20°	136.8	6.0
20°-30°	176.3	7.8
30°-40°	167.5	7.4
40°-50°	143.5	6.3
50°-60°	109.3	4.8
60°-70°	69.1	3.0
70°-80°	34.5	1.5
80°-90°	10.1	0.4
90°-100°	15.6	0.7
100°-110°	57.2	2.5
110°-120°	153.0	6.7
120°-130°	252.6	11.1
130°-140°	268.6	11.8
140°-150°	249.7	11.0
150°-160°	200.7	8.9
160°-170°	129.3	5.7
170°-180°	44.5	2.0
0°-30°	362.2	16.0
0°-40°	529.7	23.4
0°-60°	782.5	34.5
0°-90°	896.2	39.5
90°-120°	225.9	10.0
90°-150°	996.7	44.0
90°-180°	1371.0	60.5
0°-180°	2267.5	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°	9	0	9	0	9	4
95°	15	22	15	22	15	14
105°	26	103	26	103	26	27
115°	28	195	28	195	28	70
125°	290	275	290	275	290	250
135°	352	341	352	341	352	271
145°	401	395	401	395	401	251
155°	436	435	436	435	436	201
165°	457	458	457	458	457	129
175°	466	469	466	469	466	44
180°	468	468	468	468	468	



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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°	4.1	4.3	4.2	4.2	4.1	4.1	4.0	4.1	3.9	4.0	3.6
90°	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5	7.1	6.7	6.2
92.5°	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2	8.1	7.8	7.5
95°	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9	13.5	13.2	12.7
97.5°	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3	18.0	17.7	16.5
100°	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5	19.9	19.3	18.0
102.5°	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4	20.6	19.8	30.6
105°	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3	21.5	20.7	41.2
107.5°	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3	28.0	28.9	53.6
110°	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2	51.7	59.3	81.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6	122.0	149.5	154.8
115°	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3	174.0	208.9	207.0
117.5°	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5	223.0	231.4	230.1
120°	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0	249.1	248.2	246.8
122.5°	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2	264.7	264.2	262.7
125°	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2	286.6	286.1	284.7
127.5°	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4	306.7	305.9	304.8
130°	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3	319.4	318.6	317.8
132.5°	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8	332.1	331.4	330.5
135°	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6	349.8	349.1	348.4
137.5°	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2	366.4	365.7	364.9
140°	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9	377.2	376.5	375.7
142.5°	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8	387.1	386.5	385.6
145°	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6	401.1	400.5	399.3
147.5°	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7	413.3	412.9	411.6
150°	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1	420.6	420.2	419.0
152.5°	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9	427.4	427.0	425.8
155°	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0	436.6	436.1	435.2
157.5°	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7	444.2	443.7	443.1
160°	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2	448.8	448.3	447.8
162.5°	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4	452.9	452.3	451.9
165°	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5	458.0	457.4	457.2
167.5°	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8	462.2	461.7	461.5
170°	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9	464.4	463.9	463.7
172.5°	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5	466.0	465.5	465.3
175°	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3	467.8	467.2	467.1
177.5°	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5	468.1	467.6	467.6
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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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°	3.6	3.6	3.5	3.2	3.2	3.2	3.7	4.3	3.8	3.6	3.4
90°	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3	1.2	2.0	2.9
92.5°	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8	6.7	6.7	6.6
95°	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0	19.5	17.0	14.6
97.5°	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6	36.7	29.7	22.7
100°	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0	49.6	39.3	29.0
102.5°	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8	75.7	73.4	71.3
105°	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9	105.2	107.4	109.7
107.5°	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6	133.4	135.2	137.0
110°	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0	151.5	153.1	154.7



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3	168.7	170.2	171.5
115°	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7	196.0	197.3	198.5
117.5°	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1	220.5	222.0	223.4
120°	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0	238.1	239.2	240.4
122.5°	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2	253.3	254.5	255.7
125°	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3	276.2	277.3	278.2
127.5°	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2	297.3	298.3	299.4
130°	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5	310.7	311.9	313.1
132.5°	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1	324.0	325.0	326.1
135°	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6	341.8	343.0	344.2
137.5°	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5	359.3	360.1	361.0
140°	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1	370.7	371.3	371.9
142.5°	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9	380.4	380.9	381.4
145°	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1	395.1	395.0	394.9
147.5°	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4	408.2	407.9	407.7
150°	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2	416.6	416.1	415.6
152.5°	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5	423.9	423.3	422.7
155°	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1	434.4	433.7	433.1
157.5°	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4	442.8	442.3	441.7
160°	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	447.8	447.4	446.9
162.5°	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7	452.2	451.7	451.3
165°	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4	458.0	457.6	457.1
167.5°	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8	462.3	461.9	461.4
170°	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2	464.8	464.3	463.9
172.5°	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8	466.4	466.0	465.5
175°	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0	468.4	467.9	467.4
177.5°	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3	468.9	468.4	468.0
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-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°	3.5	3.5	3.3	3.4	3.6	3.5	3.6	3.5	3.6	3.6	3.6
90°	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5	7.9	8.2	8.6
92.5°	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2	8.5	8.6	8.8
95°	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9	14.3	14.7	14.9
97.5°	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3	18.6	18.9	19.1
100°	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5	21.1	21.7	22.1
102.5°	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4	22.2	23.0	23.4
105°	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3	23.1	24.0	24.6
107.5°	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3	26.4	25.5	25.3
110°	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2	36.7	29.2	25.5



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6	67.1	39.7	26.1
115°	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3	104.4	69.6	49.4
117.5°	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5	206.1	197.6	184.6
120°	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0	250.9	251.8	247.2
122.5°	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2	265.8	266.3	265.6
125°	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2	287.7	288.2	288.6
127.5°	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4	308.2	309.0	309.3
130°	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3	321.1	321.9	322.3
132.5°	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8	333.4	334.1	334.5
135°	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6	351.3	352.1	352.4
137.5°	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2	367.9	368.6	368.8
140°	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9	378.6	379.2	379.4
142.5°	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8	388.4	389.0	389.1
145°	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6	402.1	402.7	402.7
147.5°	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7	414.1	414.5	414.5
150°	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1	421.5	422.0	422.1
152.5°	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9	428.3	428.8	428.7
155°	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0	437.4	437.9	437.8
157.5°	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7	445.2	445.8	445.7
160°	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2	449.6	450.1	450.0
162.5°	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4	453.9	454.4	454.3
165°	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5	459.0	459.5	459.5
167.5°	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8	463.3	463.8	463.7
170°	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9	465.5	466.0	465.9
172.5°	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5	467.1	467.6	467.5
175°	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3	468.8	469.4	469.3
177.5°	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5	468.9	469.4	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-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°	3.6	3.5	3.6	3.6	3.6	3.5	3.6	3.6	3.6	3.6	3.5
90°	8.7	8.9	9.0	9.1	9.0	8.9	8.7	8.6	8.2	7.9	7.5
92.5°	8.9	9.0	9.0	9.1	9.0	9.0	8.9	8.8	8.6	8.5	8.2
95°	14.8	14.7	14.7	14.6	14.7	14.7	14.8	14.9	14.7	14.3	13.9
97.5°	19.2	19.3	19.3	19.4	19.3	19.3	19.2	19.1	18.9	18.6	18.3
100°	22.3	22.4	22.5	22.7	22.5	22.4	22.3	22.1	21.7	21.1	20.5
102.5°	23.7	23.9	24.1	24.3	24.1	23.9	23.7	23.4	23.0	22.2	21.4
105°	24.8	25.1	25.4	25.7	25.4	25.1	24.8	24.6	24.0	23.1	22.3
107.5°	25.6	25.9	26.1	26.5	26.1	25.9	25.6	25.3	25.5	26.4	27.3
110°	25.8	26.1	26.5	26.8	26.5	26.1	25.8	25.5	29.2	36.7	44.2



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	26.3	26.5	26.8	27.0	26.8	26.5	26.3	26.1	39.7	67.1	94.6
115°	44.0	38.6	33.2	27.7	33.2	38.6	44.0	49.4	69.6	104.4	139.3
117.5°	166.8	148.9	131.2	113.4	131.2	148.9	166.8	184.6	197.6	206.1	214.5
120°	237.0	226.9	216.7	206.5	216.7	226.9	237.0	247.2	251.8	250.9	250.0
122.5°	263.6	261.7	259.7	257.7	259.7	261.7	263.6	265.6	266.3	265.8	265.2
125°	288.8	289.1	289.3	289.5	289.3	289.1	288.8	288.6	288.2	287.7	287.2
127.5°	309.4	309.4	309.5	309.5	309.5	309.4	309.4	309.3	309.0	308.2	307.4
130°	322.3	322.2	322.1	322.0	322.1	322.2	322.3	322.3	321.9	321.1	320.3
132.5°	334.4	334.3	334.3	334.2	334.3	334.3	334.4	334.5	334.1	333.4	332.8
135°	352.3	352.1	352.0	351.8	352.0	352.1	352.3	352.4	352.1	351.3	350.6
137.5°	368.6	368.4	368.1	367.8	368.1	368.4	368.6	368.8	368.6	367.9	367.2
140°	379.0	378.6	378.3	377.9	378.3	378.6	379.0	379.4	379.2	378.6	377.9
142.5°	388.7	388.4	388.0	387.6	388.0	388.4	388.7	389.1	389.0	388.4	387.8
145°	402.3	402.0	401.6	401.2	401.6	402.0	402.3	402.7	402.7	402.1	401.6
147.5°	414.2	413.8	413.5	413.2	413.5	413.8	414.2	414.5	414.5	414.1	413.7
150°	421.7	421.3	420.9	420.6	420.9	421.3	421.7	422.1	422.0	421.5	421.1
152.5°	428.3	427.8	427.2	426.7	427.2	427.8	428.3	428.7	428.8	428.3	427.9
155°	437.2	436.7	436.0	435.5	436.0	436.7	437.2	437.8	437.9	437.4	437.0
157.5°	445.1	444.5	443.9	443.4	443.9	444.5	445.1	445.7	445.8	445.2	444.7
160°	449.6	449.0	448.5	448.0	448.5	449.0	449.6	450.0	450.1	449.6	449.2
162.5°	453.7	453.0	452.4	451.8	452.4	453.0	453.7	454.3	454.4	453.9	453.4
165°	459.0	458.5	458.0	457.4	458.0	458.5	459.0	459.5	459.5	459.0	458.5
167.5°	463.0	462.4	461.7	461.1	461.7	462.4	463.0	463.7	463.8	463.3	462.8
170°	465.2	464.5	463.9	463.2	463.9	464.5	465.2	465.9	466.0	465.5	464.9
172.5°	466.8	466.2	465.5	464.9	465.5	466.2	466.8	467.5	467.6	467.1	466.5
175°	468.5	467.8	467.0	466.3	467.0	467.8	468.5	469.3	469.4	468.8	468.3
177.5°	468.7	468.2	467.6	467.1	467.6	468.2	468.7	469.3	469.4	468.9	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-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°	3.6	3.5	3.6	3.4	3.3	3.5	3.5	3.4	3.6	3.8	4.3
90°	7.1	6.7	6.2	5.5	5.0	4.4	3.6	2.9	2.0	1.2	0.3
92.5°	8.1	7.8	7.5	7.3	7.0	6.7	6.6	6.6	6.7	6.7	6.8
95°	13.5	13.2	12.7	12.1	11.6	11.1	12.0	14.6	17.0	19.5	22.0
97.5°	18.0	17.7	16.5	15.2	14.0	12.8	15.7	22.7	29.7	36.7	43.6
100°	19.9	19.3	18.0	16.7	15.4	14.2	18.7	29.0	39.3	49.6	60.0
102.5°	20.6	19.8	30.6	41.3	52.0	62.7	69.1	71.3	73.4	75.7	77.8
105°	21.5	20.7	41.2	61.7	82.3	102.8	111.9	109.7	107.4	105.2	102.9
107.5°	28.0	28.9	53.6	78.2	102.8	127.5	138.9	137.0	135.2	133.4	131.6
110°	51.7	59.3	81.0	102.7	124.5	146.2	156.3	154.7	153.1	151.5	150.0



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	122.0	149.5	154.8	160.2	165.6	171.0	172.9	171.5	170.2	168.7	167.3
115°	174.0	208.9	207.0	205.2	203.3	201.4	199.8	198.5	197.3	196.0	194.7
117.5°	223.0	231.4	230.1	228.8	227.5	226.2	224.8	223.4	222.0	220.5	219.1
120°	249.1	248.2	246.8	245.5	244.2	242.8	241.5	240.4	239.2	238.1	237.0
122.5°	264.7	264.2	262.7	261.2	259.8	258.3	256.9	255.7	254.5	253.3	252.2
125°	286.6	286.1	284.7	283.3	281.9	280.4	279.2	278.2	277.3	276.2	275.3
127.5°	306.7	305.9	304.8	303.7	302.7	301.6	300.6	299.4	298.3	297.3	296.2
130°	319.4	318.6	317.8	317.0	316.2	315.3	314.3	313.1	311.9	310.7	309.5
132.5°	332.1	331.4	330.5	329.7	328.8	328.0	327.1	326.1	325.0	324.0	323.1
135°	349.8	349.1	348.4	347.8	347.1	346.3	345.5	344.2	343.0	341.8	340.6
137.5°	366.4	365.7	364.9	364.2	363.4	362.6	361.8	361.0	360.1	359.3	358.5
140°	377.2	376.5	375.7	374.9	374.1	373.2	372.5	371.9	371.3	370.7	370.1
142.5°	387.1	386.5	385.6	384.6	383.7	382.8	382.0	381.4	380.9	380.4	379.9
145°	401.1	400.5	399.3	398.0	396.7	395.5	394.8	394.9	395.0	395.1	395.1
147.5°	413.3	412.9	411.6	410.4	409.1	407.8	407.3	407.7	407.9	408.2	408.4
150°	420.6	420.2	419.0	417.8	416.6	415.3	415.0	415.6	416.1	416.6	417.2
152.5°	427.4	427.0	425.8	424.7	423.5	422.4	422.1	422.7	423.3	423.9	424.5
155°	436.6	436.1	435.2	434.3	433.4	432.5	432.4	433.1	433.7	434.4	435.1
157.5°	444.2	443.7	443.1	442.4	441.8	441.2	441.2	441.7	442.3	442.8	443.4
160°	448.8	448.3	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3
162.5°	452.9	452.3	451.9	451.5	451.1	450.8	450.8	451.3	451.7	452.2	452.7
165°	458.0	457.4	457.2	457.0	456.8	456.5	456.6	457.1	457.6	458.0	458.4
167.5°	462.2	461.7	461.5	461.3	461.1	460.9	461.0	461.4	461.9	462.3	462.8
170°	464.4	463.9	463.7	463.6	463.4	463.3	463.4	463.9	464.3	464.8	465.2
172.5°	466.0	465.5	465.3	465.2	465.0	464.9	465.0	465.5	466.0	466.4	466.8
175°	467.8	467.2	467.1	467.0	466.8	466.7	466.8	467.4	467.9	468.4	469.0
177.5°	468.1	467.6	467.6	467.5	467.5	467.4	467.6	468.0	468.4	468.9	469.3
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-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°	3.7	3.2	3.2	3.2	3.5	3.6	3.6	3.6	4.0	3.9	4.1
90°	1.2	2.0	2.9	3.6	4.4	5.0	5.5	6.2	6.7	7.1	7.5
92.5°	6.7	6.7	6.6	6.6	6.7	7.0	7.3	7.5	7.8	8.1	8.2
95°	19.5	17.0	14.6	12.0	11.1	11.6	12.1	12.7	13.2	13.5	13.9
97.5°	36.7	29.7	22.7	15.7	12.8	14.0	15.2	16.5	17.7	18.0	18.3
100°	49.6	39.3	29.0	18.7	14.2	15.4	16.7	18.0	19.3	19.9	20.5
102.5°	75.7	73.4	71.3	69.1	62.7	52.0	41.3	30.6	19.8	20.6	21.4
105°	105.2	107.4	109.7	111.9	102.8	82.3	61.7	41.2	20.7	21.5	22.3
107.5°	133.4	135.2	137.0	138.9	127.5	102.8	78.2	53.6	28.9	28.0	27.3
110°	151.5	153.1	154.7	156.3	146.2	124.5	102.7	81.0	59.3	51.7	44.2



TEST NUMBER: P331765-927

CATALOG NUMBER: S122RDIW-S290D435U927-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	168.7	170.2	171.5	172.9	171.0	165.6	160.2	154.8	149.5	122.0	94.6
115°	196.0	197.3	198.5	199.8	201.4	203.3	205.2	207.0	208.9	174.0	139.3
117.5°	220.5	222.0	223.4	224.8	226.2	227.5	228.8	230.1	231.4	223.0	214.5
120°	238.1	239.2	240.4	241.5	242.8	244.2	245.5	246.8	248.2	249.1	250.0
122.5°	253.3	254.5	255.7	256.9	258.3	259.8	261.2	262.7	264.2	264.7	265.2
125°	276.2	277.3	278.2	279.2	280.4	281.9	283.3	284.7	286.1	286.6	287.2
127.5°	297.3	298.3	299.4	300.6	301.6	302.7	303.7	304.8	305.9	306.7	307.4
130°	310.7	311.9	313.1	314.3	315.3	316.2	317.0	317.8	318.6	319.4	320.3
132.5°	324.0	325.0	326.1	327.1	328.0	328.8	329.7	330.5	331.4	332.1	332.8
135°	341.8	343.0	344.2	345.5	346.3	347.1	347.8	348.4	349.1	349.8	350.6
137.5°	359.3	360.1	361.0	361.8	362.6	363.4	364.2	364.9	365.7	366.4	367.2
140°	370.7	371.3	371.9	372.5	373.2	374.1	374.9	375.7	376.5	377.2	377.9
142.5°	380.4	380.9	381.4	382.0	382.8	383.7	384.6	385.6	386.5	387.1	387.8
145°	395.1	395.0	394.9	394.8	395.5	396.7	398.0	399.3	400.5	401.1	401.6
147.5°	408.2	407.9	407.7	407.3	407.8	409.1	410.4	411.6	412.9	413.3	413.7
150°	416.6	416.1	415.6	415.0	415.3	416.6	417.8	419.0	420.2	420.6	421.1
152.5°	423.9	423.3	422.7	422.1	422.4	423.5	424.7	425.8	427.0	427.4	427.9
155°	434.4	433.7	433.1	432.4	432.5	433.4	434.3	435.2	436.1	436.6	437.0
157.5°	442.8	442.3	441.7	441.2	441.2	441.8	442.4	443.1	443.7	444.2	444.7
160°	447.8	447.4	446.9	446.5	446.5	446.9	447.4	447.8	448.3	448.8	449.2
162.5°	452.2	451.7	451.3	450.8	450.8	451.1	451.5	451.9	452.3	452.9	453.4
165°	458.0	457.6	457.1	456.6	456.5	456.8	457.0	457.2	457.4	458.0	458.5
167.5°	462.3	461.9	461.4	461.0	460.9	461.1	461.3	461.5	461.7	462.2	462.8
170°	464.8	464.3	463.9	463.4	463.3	463.4	463.6	463.7	463.9	464.4	464.9
172.5°	466.4	466.0	465.5	465.0	464.9	465.0	465.2	465.3	465.5	466.0	466.5
175°	468.4	467.9	467.4	466.8	466.7	466.8	467.0	467.1	467.2	467.8	468.3
177.5°	468.9	468.4	468.0	467.6	467.4	467.5	467.5	467.6	467.6	468.1	468.5
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9	467.9



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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°	4.0	4.1	4.1	4.2	4.2	4.3	4.1
90°	7.9	8.2	8.6	8.7	8.9	9.0	9.1
92.5°	8.5	8.6	8.8	8.9	9.0	9.0	9.1
95°	14.3	14.7	14.9	14.8	14.7	14.7	14.6
97.5°	18.6	18.9	19.1	19.2	19.3	19.3	19.4
100°	21.1	21.7	22.1	22.3	22.4	22.5	22.7
102.5°	22.2	23.0	23.4	23.7	23.9	24.1	24.3
105°	23.1	24.0	24.6	24.8	25.1	25.4	25.7
107.5°	26.4	25.5	25.3	25.6	25.9	26.1	26.5
110°	36.7	29.2	25.5	25.8	26.1	26.5	26.8



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	67.1	39.7	26.1	26.3	26.5	26.8	27.0
115°	104.4	69.6	49.4	44.0	38.6	33.2	27.7
117.5°	206.1	197.6	184.6	166.8	148.9	131.2	113.4
120°	250.9	251.8	247.2	237.0	226.9	216.7	206.5
122.5°	265.8	266.3	265.6	263.6	261.7	259.7	257.7
125°	287.7	288.2	288.6	288.8	289.1	289.3	289.5
127.5°	308.2	309.0	309.3	309.4	309.4	309.5	309.5
130°	321.1	321.9	322.3	322.3	322.2	322.1	322.0
132.5°	333.4	334.1	334.5	334.4	334.3	334.3	334.2
135°	351.3	352.1	352.4	352.3	352.1	352.0	351.8
137.5°	367.9	368.6	368.8	368.6	368.4	368.1	367.8
140°	378.6	379.2	379.4	379.0	378.6	378.3	377.9
142.5°	388.4	389.0	389.1	388.7	388.4	388.0	387.6
145°	402.1	402.7	402.7	402.3	402.0	401.6	401.2
147.5°	414.1	414.5	414.5	414.2	413.8	413.5	413.2
150°	421.5	422.0	422.1	421.7	421.3	420.9	420.6
152.5°	428.3	428.8	428.7	428.3	427.8	427.2	426.7
155°	437.4	437.9	437.8	437.2	436.7	436.0	435.5
157.5°	445.2	445.8	445.7	445.1	444.5	443.9	443.4
160°	449.6	450.1	450.0	449.6	449.0	448.5	448.0
162.5°	453.9	454.4	454.3	453.7	453.0	452.4	451.8
165°	459.0	459.5	459.5	459.0	458.5	458.0	457.4
167.5°	463.3	463.8	463.7	463.0	462.4	461.7	461.1
170°	465.5	466.0	465.9	465.2	464.5	463.9	463.2
172.5°	467.1	467.6	467.5	466.8	466.2	465.5	464.9
175°	468.8	469.4	469.3	468.5	467.8	467.0	466.3
177.5°	468.9	469.4	469.3	468.7	468.2	467.6	467.1
180°	467.9	467.9	467.9	467.9	467.9	467.9	467.9

(END OF REPORT)