

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: P331765-935

Luminaire Tested: **S122RDIW-S290D435U935-4F0-1E-UDD-A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331765-935
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-S290D435U935-4F0-1E-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: 2464.4 lumens
Efficiency: N/A
Efficacy: 107.1 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

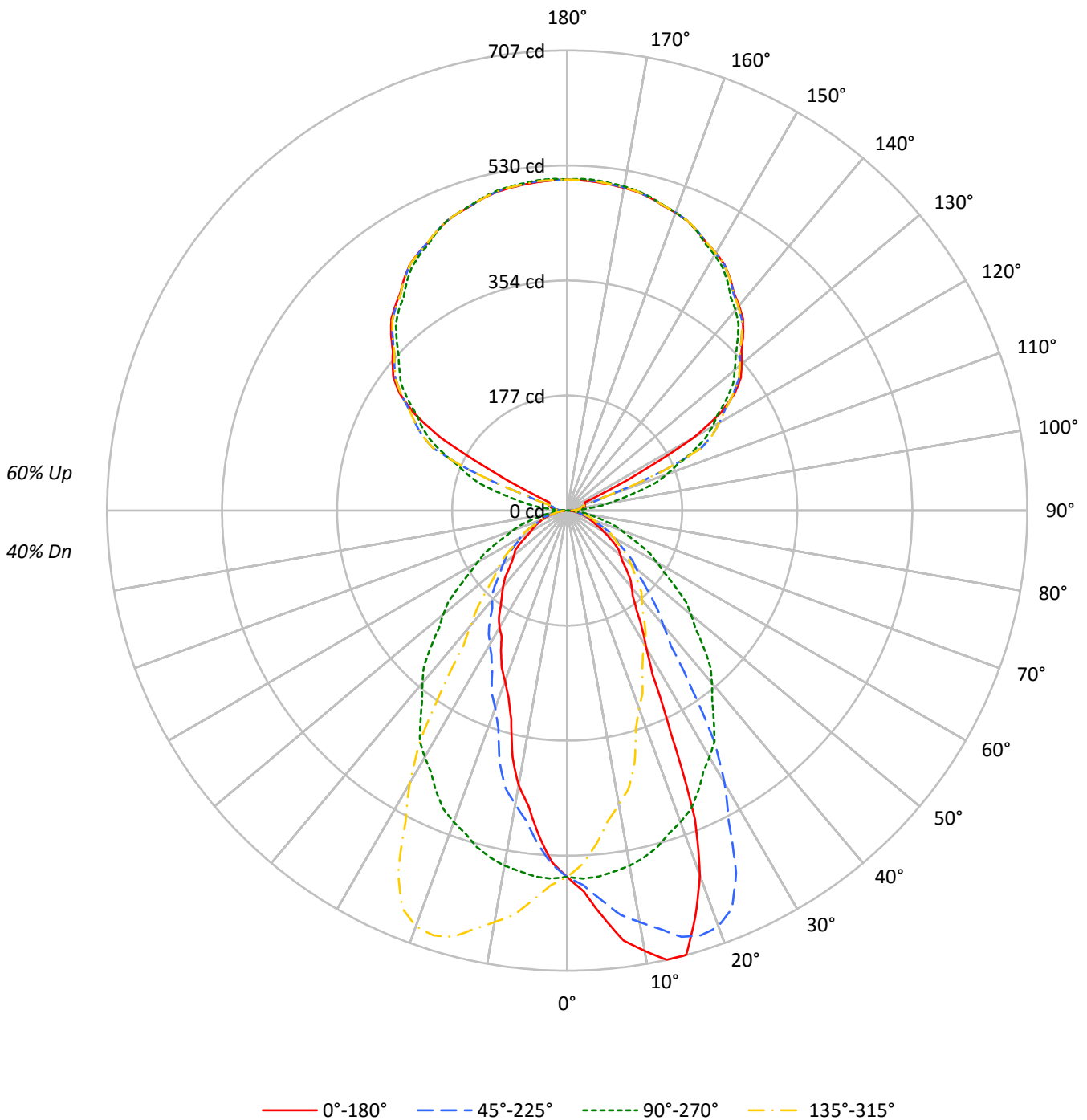
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	9087	9087	9087	9087
5°	10149	9144	8109	9144
10°	11262	9081	7029	9081
15°	11814	8948	5538	8948
20°	10244	8751	4792	8751
25°	6716	8480	4277	8480
30°	4521	8153	3872	8153
35°	3662	7740	3493	7740
40°	3256	7290	3231	7290
45°	2948	6766	2884	6766
50°	2683	6244	2673	6244
55°	2519	5664	2488	5664
60°	2109	5134	2086	5134
65°	1780	4661	2017	4661
70°	1643	4164	1902	4164
75°	1535	3624	1759	3624
80°	1413	2985	1562	2985
85°	1315	2353	1371	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.2
10°-20°	148.7	6.0
20°-30°	191.6	7.8
30°-40°	182.1	7.4
40°-50°	156.0	6.3
50°-60°	118.8	4.8
60°-70°	75.1	3.0
70°-80°	37.5	1.5
80°-90°	11.0	0.4
90°-100°	17.0	0.7
100°-110°	62.2	2.5
110°-120°	166.3	6.7
120°-130°	274.5	11.1
130°-140°	291.9	11.8
140°-150°	271.3	11.0
150°-160°	218.2	8.9
160°-170°	140.6	5.7
170°-180°	48.4	2.0
0°-30°	393.6	16.0
0°-40°	575.7	23.4
0°-60°	850.4	34.5
0°-90°	974.0	39.5
90°-120°	245.5	10.0
90°-150°	1083.3	44.0
90°-180°	1490.0	60.5
0°-180°	2464.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	563	563	563	563	563	
5°	626	564	500	564	626	62
15°	707	535	331	535	707	191
25°	377	476	240	476	377	179
35°	186	393	177	393	186	119
45°	129	296	126	296	129	100
55°	90	201	88	201	90	79
65°	47	122	53	122	47	47
75°	25	58	28	58	25	26
85°	7	13	7	13	7	8
90°	10	0	10	0	10	5
95°	16	24	16	24	16	15
105°	28	112	28	112	28	29
115°	30	212	30	212	30	76
125°	315	299	315	299	315	272
135°	382	370	382	370	382	295
145°	436	430	436	430	436	273
155°	473	473	473	473	473	218
165°	497	498	497	498	497	140
175°	507	510	507	510	507	48
180°	509	509	509	509	509	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	585.7	586.2	586.7	585.6	585.6	584.6	582.6	581.0	576.6	576.0	576.0
5°	626.2	625.9	626.6	624.1	620.6	619.7	616.0	611.1	606.1	600.5	599.3
7.5°	666.5	665.9	664.3	663.9	661.2	655.3	649.4	643.0	634.6	626.3	622.2
10°	686.9	693.4	689.4	682.6	683.9	674.8	669.9	661.4	654.4	642.0	639.4
12.5°	706.9	709.5	708.2	704.3	702.6	696.2	689.6	682.3	669.3	658.2	648.6
15°	706.8	710.5	711.5	710.3	711.3	710.9	707.4	701.4	690.0	677.9	667.3
17.5°	654.6	657.2	663.7	668.0	673.5	685.0	690.8	692.9	691.3	684.3	676.9
20°	596.2	591.9	609.8	619.0	626.8	646.4	663.2	669.7	680.0	679.8	677.9
22.5°	513.2	514.2	531.2	542.2	565.0	584.6	603.7	628.0	648.1	661.3	669.1
25°	377.0	384.5	401.5	416.4	441.8	478.2	511.3	549.6	585.7	614.3	641.5
27.5°	283.2	283.8	297.2	311.0	326.1	355.9	397.5	443.2	494.8	537.4	586.3
30°	242.5	241.3	247.0	255.5	268.4	291.4	322.7	367.6	419.1	483.3	540.4
32.5°	213.7	213.8	218.1	224.3	235.0	250.6	272.0	308.6	357.1	420.3	487.2
35°	185.8	185.6	188.7	193.2	197.7	207.7	222.4	241.5	275.0	333.8	402.3
37.5°	165.7	166.6	168.2	171.0	175.9	181.5	190.3	203.2	227.0	261.8	319.3
40°	154.5	154.9	157.0	159.4	162.3	166.6	173.8	184.3	201.6	229.4	271.5
42.5°	144.2	144.6	146.1	148.3	150.6	154.9	160.9	169.9	184.0	205.6	240.3
45°	129.1	129.1	130.4	131.4	134.0	137.8	142.8	150.2	160.0	176.0	199.1
47.5°	114.9	114.9	115.9	117.5	119.2	122.2	127.0	133.1	140.2	152.6	172.3
50°	106.8	107.0	107.5	108.9	109.9	112.6	116.4	121.7	129.1	138.7	155.1
52.5°	100.2	100.1	100.8	101.4	102.1	104.0	106.9	111.5	118.1	126.5	140.1
55°	89.5	88.8	90.0	90.9	91.5	92.3	93.8	96.8	102.5	109.5	119.7
57.5°	76.3	75.9	76.8	77.7	79.6	81.6	83.0	84.8	87.7	92.8	102.9
60°	65.3	65.3	67.1	67.7	69.8	72.6	75.3	76.9	79.8	83.1	90.6
62.5°	55.6	55.8	56.6	57.2	58.4	61.7	65.6	69.1	71.8	75.0	79.9
65°	46.6	46.9	46.9	47.4	48.1	48.9	50.5	53.2	58.1	62.6	66.3
67.5°	39.5	39.6	39.8	40.1	40.3	41.2	41.8	43.0	44.2	48.4	53.0
70°	34.8	35.4	35.2	35.6	35.8	36.2	36.9	37.5	39.3	40.3	43.0
72.5°	30.4	30.8	30.8	31.1	31.6	31.7	32.3	32.9	34.0	34.8	36.3
75°	24.6	24.5	24.6	25.1	25.2	25.4	25.4	26.2	26.8	27.6	28.6
77.5°	19.0	19.2	19.2	19.2	19.3	19.6	19.5	19.9	20.5	20.9	21.4
80°	15.2	15.4	15.2	15.4	15.7	15.8	15.7	15.8	16.4	16.8	16.8
82.5°	11.8	11.9	12.0	12.0	12.1	12.1	12.4	12.4	12.8	12.7	12.9
85°	7.1	6.9	6.9	6.9	7.1	7.2	7.1	7.1	7.2	7.2	7.2
87.5°	4.5	4.6	4.6	4.6	4.5	4.5	4.4	4.5	4.2	4.3	4.0
90°	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2	7.7	7.3	6.7
92.5°	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0	8.8	8.5	8.2
95°	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2	14.7	14.4	13.8
97.5°	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9	19.5	19.2	17.9
100°	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3	21.6	21.0	19.5
102.5°	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2	22.4	21.5	33.2
105°	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3	23.3	22.5	44.8
107.5°	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6	30.5	31.4	58.2
110°	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0	56.2	64.4	88.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8	132.6	162.5	168.2
115°	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4	189.2	227.0	225.0
117.5°	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2	242.4	251.5	250.1
120°	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7	270.7	269.8	268.3
122.5°	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3	287.7	287.1	285.5
125°	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1	311.5	311.0	309.4
127.5°	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2	333.3	332.4	331.3
130°	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1	347.2	346.3	345.4
132.5°	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7	360.9	360.2	359.2
135°	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1	380.2	379.4	378.7
137.5°	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1	398.2	397.4	396.6
140°	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7	409.9	409.2	408.3
142.5°	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5	420.8	420.1	419.0
145°	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5	435.9	435.3	433.9
147.5°	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6	449.2	448.8	447.4
150°	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7	457.2	456.7	455.4
152.5°	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0	464.5	464.1	462.8
155°	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0	474.5	474.0	473.0
157.5°	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4	482.8	482.2	481.6
160°	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2	487.8	487.2	486.7
162.5°	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8	492.2	491.6	491.2
165°	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3	497.7	497.1	497.0
167.5°	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0	502.4	501.8	501.6
170°	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3	504.7	504.2	504.0
172.5°	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0	506.5	505.9	505.8
175°	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0	508.4	507.8	507.6
177.5°	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2	508.8	508.2	508.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	576.4	575.1	573.9	571.2	569.7	566.6	566.2	566.0	562.0	558.0	556.9
5°	596.2	593.0	588.3	582.8	577.1	571.3	567.4	564.2	556.4	549.0	544.7
7.5°	616.0	609.3	601.2	590.9	582.2	572.6	565.3	558.9	547.8	537.1	529.9
10°	630.9	620.0	609.2	595.0	583.8	572.8	562.7	553.9	541.4	527.3	517.3
12.5°	640.2	628.1	613.3	599.3	584.9	570.9	557.3	546.0	531.3	516.8	505.0
15°	652.6	639.7	621.7	601.8	583.2	565.0	549.4	535.3	516.2	498.7	484.2
17.5°	662.9	645.1	625.8	602.7	581.2	558.1	538.0	520.0	498.6	477.6	460.5
20°	666.2	648.5	626.2	603.1	577.7	550.5	528.8	509.3	486.4	463.5	443.9
22.5°	664.1	650.4	625.6	598.0	572.0	543.5	519.0	496.3	470.9	447.5	424.9
25°	650.3	645.6	622.2	592.0	562.3	529.3	500.8	476.0	447.1	422.1	397.4
27.5°	618.1	628.3	613.7	581.6	548.5	513.2	481.2	453.0	422.9	394.8	370.2
30°	587.1	610.4	604.2	574.4	537.4	502.7	466.8	437.3	405.3	376.3	352.1
32.5°	544.8	583.2	589.3	564.4	526.2	487.9	450.4	421.0	387.5	357.1	333.4
35°	477.2	534.7	561.1	545.3	507.0	465.6	427.0	392.7	359.0	329.0	305.5
37.5°	396.7	475.0	519.0	520.1	484.9	442.0	399.8	365.8	331.4	301.9	276.5
40°	344.4	429.3	486.6	499.3	469.6	423.3	380.6	345.9	312.4	283.4	254.3
42.5°	297.5	382.0	452.5	474.6	451.0	404.9	362.1	326.0	293.3	265.9	236.1
45°	240.6	314.5	392.1	431.6	418.5	375.9	330.7	296.3	265.6	241.9	213.4
47.5°	202.9	255.0	330.2	383.6	383.4	344.5	300.0	267.1	238.6	216.4	193.3
50°	181.5	226.9	290.4	351.0	356.1	323.5	281.2	248.6	222.0	198.7	180.1
52.5°	162.2	199.7	256.8	315.0	329.4	301.1	260.1	230.0	204.1	182.7	166.9
55°	137.1	166.1	209.5	263.8	285.8	265.8	229.4	201.2	180.3	162.3	148.6
57.5°	116.0	137.7	172.5	216.3	241.8	229.3	199.2	176.3	158.4	142.2	131.4
60°	102.7	120.5	150.0	186.6	214.7	206.0	180.3	159.0	143.8	129.7	119.5
62.5°	90.1	105.5	130.8	160.5	186.2	182.6	161.7	143.8	130.4	117.6	109.0
65°	72.6	83.7	103.5	126.7	147.5	149.2	134.1	122.0	110.1	100.0	92.3
67.5°	57.8	65.1	79.0	98.6	114.1	119.7	110.5	101.2	91.7	83.9	77.2
70°	48.7	54.6	64.7	80.6	94.9	100.7	95.4	88.2	80.0	73.5	67.8
72.5°	39.4	45.2	52.7	64.3	76.5	82.9	81.0	75.9	69.2	63.8	58.5
75°	29.7	31.5	36.6	44.4	54.0	59.5	60.8	58.1	52.8	48.7	45.5
77.5°	22.0	23.1	25.5	29.5	35.8	40.7	42.7	42.4	38.7	36.4	33.4
80°	17.6	18.2	19.4	21.1	25.8	30.7	32.1	32.1	29.5	28.6	25.7
82.5°	13.3	13.8	14.6	15.5	17.7	22.0	23.5	23.8	22.2	20.9	18.6
85°	7.7	7.4	7.8	8.4	8.8	10.0	12.3	12.7	12.3	10.8	10.2
87.5°	3.9	3.9	3.8	3.4	3.4	3.4	4.0	4.6	4.1	3.9	3.7
90°	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3	1.3	2.2	3.1
92.5°	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4	7.3	7.2	7.1
95°	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9	21.2	18.5	15.8
97.5°	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4	39.9	32.3	24.6
100°	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2	53.9	42.7	31.5
102.5°	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6	82.2	79.8	77.5
105°	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8	114.3	116.8	119.2
107.5°	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0	145.0	147.0	149.0
110°	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0	164.7	166.4	168.2



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8	183.4	184.9	186.4
115°	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6	213.0	214.4	215.8
117.5°	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2	239.7	241.3	242.8
120°	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6	258.8	260.0	261.3
122.5°	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1	275.3	276.6	277.9
125°	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2	300.2	301.4	302.4
127.5°	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9	323.1	324.3	325.5
130°	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4	337.7	339.0	340.3
132.5°	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1	352.1	353.3	354.4
135°	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2	371.5	372.8	374.1
137.5°	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6	390.5	391.4	392.4
140°	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3	402.9	403.6	404.2
142.5°	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8	413.5	414.0	414.6
145°	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5	429.4	429.3	429.2
147.5°	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9	443.7	443.3	443.1
150°	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4	452.8	452.2	451.7
152.5°	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3	460.7	460.0	459.4
155°	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9	472.2	471.4	470.7
157.5°	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9	481.3	480.7	480.1
160°	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	486.7	486.3	485.8
162.5°	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0	491.5	490.9	490.5
165°	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3	497.8	497.3	496.8
167.5°	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0	502.5	502.0	501.5
170°	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7	505.1	504.6	504.2
172.5°	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4	507.0	506.4	505.9
175°	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7	509.1	508.5	508.0
177.5°	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1	509.6	509.1	508.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	554.9	553.8	551.7	548.6	546.7	543.5	541.3	542.5	542.9	542.5	542.3
5°	540.0	535.9	530.2	524.7	519.6	514.2	511.0	509.7	507.0	505.4	504.5
7.5°	521.9	514.9	506.9	497.3	489.2	480.7	476.4	474.2	468.6	465.6	463.0
10°	508.5	497.3	489.3	476.8	469.2	458.1	450.4	450.6	443.0	438.7	435.6
12.5°	493.6	481.4	468.0	456.8	446.2	437.2	428.0	424.3	416.2	412.1	403.6
15°	469.0	454.7	440.7	425.4	414.7	400.7	387.4	371.2	358.1	346.7	343.6
17.5°	442.1	424.4	410.3	392.4	373.9	350.6	335.2	325.7	317.9	311.9	307.4
20°	423.6	405.6	390.5	363.6	338.7	322.9	311.6	304.3	296.1	289.6	286.1
22.5°	404.2	385.5	364.9	334.8	315.4	302.7	292.7	284.3	278.7	273.7	270.4
25°	376.7	356.1	322.3	301.6	285.9	272.6	265.6	260.5	254.7	247.8	244.7
27.5°	347.6	315.0	290.6	275.2	260.3	251.7	245.3	237.7	232.5	229.4	226.1
30°	325.8	293.2	274.2	257.4	246.8	237.2	229.8	225.5	220.4	215.2	213.0
32.5°	301.6	275.5	257.3	243.3	232.6	224.4	218.5	211.5	207.9	204.7	200.2
35°	271.5	251.7	235.1	223.8	213.5	206.9	200.1	196.0	189.3	186.6	184.9
37.5°	246.0	228.9	216.5	204.5	196.4	189.1	184.9	178.3	175.5	171.6	167.9
40°	231.5	214.7	202.9	193.0	184.0	178.6	173.3	168.0	163.7	162.0	157.5
42.5°	216.9	203.2	191.2	180.6	174.5	168.7	162.0	158.2	153.7	150.8	148.1
45°	196.6	184.4	174.3	165.5	158.8	152.7	148.4	142.0	139.5	133.8	131.4
47.5°	178.7	167.5	157.7	149.4	142.9	139.0	132.7	127.6	123.6	120.0	117.0
50°	166.1	156.6	147.2	139.8	134.0	128.3	121.8	119.3	113.0	111.2	109.5
52.5°	154.5	145.5	137.0	129.7	123.8	118.3	112.6	109.3	105.0	103.3	102.0
55°	138.3	129.7	121.5	115.0	109.2	103.5	100.0	95.8	93.8	92.5	90.9
57.5°	122.0	114.3	108.0	101.4	95.5	91.0	87.0	84.5	82.5	80.7	78.8
60°	111.7	104.3	98.6	92.5	86.4	82.7	79.6	76.6	74.3	71.5	70.8
62.5°	100.7	94.2	89.0	83.1	77.8	74.5	71.5	68.7	65.9	61.9	60.8
65°	85.7	80.6	75.1	70.2	65.5	62.2	57.9	54.8	53.6	53.2	53.0
67.5°	72.1	67.2	62.5	57.5	53.3	50.2	48.0	47.5	46.7	46.5	45.9
70°	62.9	58.5	53.8	49.1	44.9	44.4	43.7	42.8	41.8	41.5	41.1
72.5°	54.8	50.2	45.5	41.8	40.0	39.3	38.5	37.6	37.0	36.6	36.4
75°	42.0	37.7	34.6	33.2	32.3	31.7	30.5	30.0	29.5	28.9	28.8
77.5°	30.3	27.8	26.4	25.6	24.5	23.9	23.2	22.6	22.2	22.1	21.8
80°	23.1	21.9	20.9	19.7	19.4	18.6	18.4	17.8	18.0	17.4	17.4
82.5°	17.9	16.4	15.6	15.1	14.6	14.0	13.9	13.6	13.6	13.2	13.2
85°	9.2	8.8	8.4	8.0	8.0	7.4	7.7	7.4	7.4	7.1	6.9
87.5°	3.8	3.8	3.6	3.7	3.9	3.8	3.9	3.8	3.9	4.0	3.9
90°	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2	8.6	9.0	9.3
92.5°	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0	9.2	9.4	9.6
95°	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2	15.6	16.0	16.2
97.5°	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9	20.2	20.5	20.8
100°	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3	22.9	23.6	24.0
102.5°	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2	24.1	25.0	25.5
105°	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3	25.1	26.1	26.7
107.5°	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6	28.7	27.7	27.5
110°	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0	39.9	31.7	27.7



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8	72.9	43.1	28.3
115°	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4	113.5	75.6	53.7
117.5°	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2	224.0	214.8	200.6
120°	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7	272.7	273.7	268.6
122.5°	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3	288.9	289.5	288.7
125°	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1	312.7	313.2	313.7
127.5°	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2	334.9	335.8	336.2
130°	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1	349.0	349.9	350.3
132.5°	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7	362.4	363.2	363.5
135°	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1	381.9	382.7	383.0
137.5°	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1	399.8	400.6	400.9
140°	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7	411.5	412.2	412.3
142.5°	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5	422.1	422.8	422.9
145°	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5	437.0	437.6	437.7
147.5°	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6	450.0	450.5	450.5
150°	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7	458.1	458.7	458.7
152.5°	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0	465.5	466.1	466.0
155°	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0	475.4	476.0	475.9
157.5°	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4	483.9	484.5	484.4
160°	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2	488.7	489.2	489.1
162.5°	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8	493.4	493.9	493.8
165°	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3	498.9	499.5	499.5
167.5°	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0	503.5	504.1	504.0
170°	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3	505.9	506.4	506.4
172.5°	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0	507.6	508.2	508.2
175°	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0	509.5	510.1	510.1
177.5°	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2	509.6	510.1	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	540.5	540.8	540.4	540.6	540.4	540.8	540.5	542.3	542.5	542.9	542.5
5°	503.6	501.3	500.8	500.3	500.8	501.3	503.6	504.5	505.4	507.0	509.7
7.5°	459.6	459.3	458.2	456.8	458.2	459.3	459.6	463.0	465.6	468.6	474.2
10°	431.3	430.2	430.1	428.7	430.1	430.2	431.3	435.6	438.7	443.0	450.6
12.5°	398.0	391.8	391.2	387.7	391.2	391.8	398.0	403.6	412.1	416.2	424.3
15°	339.0	337.8	333.8	331.3	333.8	337.8	339.0	343.6	346.7	358.1	371.2
17.5°	305.1	301.3	300.1	299.5	300.1	301.3	305.1	307.4	311.9	317.9	325.7
20°	283.4	279.9	279.3	278.9	279.3	279.9	283.4	286.1	289.6	296.1	304.3
22.5°	268.4	264.7	263.2	262.0	263.2	264.7	268.4	270.4	273.7	278.7	284.3
25°	242.7	241.3	240.6	240.1	240.6	241.3	242.7	244.7	247.8	254.7	260.5
27.5°	222.7	219.6	219.0	218.0	219.0	219.6	222.7	226.1	229.4	232.5	237.7
30°	211.2	210.3	208.9	207.7	208.9	210.3	211.2	213.0	215.2	220.4	225.5
32.5°	197.8	196.9	195.7	195.2	195.7	196.9	197.8	200.2	204.7	207.9	211.5
35°	182.9	180.1	178.9	177.2	178.9	180.1	182.9	184.9	186.6	189.3	196.0
37.5°	167.1	165.7	164.0	164.6	164.0	165.7	167.1	167.9	171.6	175.5	178.3
40°	154.9	153.9	153.5	153.3	153.5	153.9	154.9	157.5	162.0	163.7	168.0
42.5°	145.2	142.5	141.5	141.5	141.5	142.5	145.2	148.1	150.8	153.7	158.2
45°	130.4	127.9	126.1	126.3	126.1	127.9	130.4	131.4	133.8	139.5	142.0
47.5°	115.4	115.3	114.2	114.5	114.2	115.3	115.4	117.0	120.0	123.6	127.6
50°	108.1	107.0	106.2	106.4	106.2	107.0	108.1	109.5	111.2	113.0	119.3
52.5°	101.3	100.2	99.6	100.5	99.6	100.2	101.3	102.0	103.3	105.0	109.3
55°	90.0	88.8	88.6	88.4	88.6	88.8	90.0	90.9	92.5	93.8	95.8
57.5°	77.3	76.5	75.3	74.9	75.3	76.5	77.3	78.8	80.7	82.5	84.5
60°	68.3	66.7	64.7	64.6	64.7	66.7	68.3	70.8	71.5	74.3	76.6
62.5°	59.9	59.7	59.2	59.2	59.2	59.7	59.9	60.8	61.9	65.9	68.7
65°	52.6	52.4	52.6	52.8	52.6	52.4	52.6	53.0	53.2	53.6	54.8
67.5°	45.8	45.5	45.1	45.3	45.1	45.5	45.8	45.9	46.5	46.7	47.5
70°	40.6	40.5	40.3	40.3	40.3	40.5	40.6	41.1	41.5	41.8	42.8
72.5°	35.6	35.6	35.5	35.3	35.5	35.6	35.6	36.4	36.6	37.0	37.6
75°	28.6	28.2	28.2	28.2	28.2	28.2	28.6	28.8	28.9	29.5	30.0
77.5°	21.8	21.5	21.4	21.2	21.4	21.5	21.8	21.8	22.1	22.2	22.6
80°	17.2	17.0	16.8	16.8	16.8	17.0	17.2	17.4	17.4	18.0	17.8
82.5°	13.2	12.9	12.9	12.7	12.9	12.9	13.2	13.2	13.2	13.6	13.6
85°	7.1	7.2	7.1	7.4	7.1	7.2	7.1	6.9	7.1	7.4	7.4
87.5°	4.0	3.8	4.0	3.9	4.0	3.8	4.0	3.9	4.0	3.9	3.8
90°	9.5	9.6	9.8	9.9	9.8	9.6	9.5	9.3	9.0	8.6	8.2
92.5°	9.6	9.7	9.8	9.9	9.8	9.7	9.6	9.6	9.4	9.2	9.0
95°	16.1	16.0	15.9	15.8	15.9	16.0	16.1	16.2	16.0	15.6	15.2
97.5°	20.8	20.9	21.0	21.1	21.0	20.9	20.8	20.8	20.5	20.2	19.9
100°	24.2	24.4	24.5	24.6	24.5	24.4	24.2	24.0	23.6	22.9	22.3
102.5°	25.7	26.0	26.2	26.4	26.2	26.0	25.7	25.5	25.0	24.1	23.2
105°	26.9	27.3	27.6	28.0	27.6	27.3	26.9	26.7	26.1	25.1	24.3
107.5°	27.8	28.2	28.4	28.8	28.4	28.2	27.8	27.5	27.7	28.7	29.6
110°	28.1	28.4	28.8	29.1	28.8	28.4	28.1	27.7	31.7	39.9	48.0



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	28.6	28.8	29.1	29.4	29.1	28.8	28.6	28.3	43.1	72.9	102.8
115°	47.9	41.9	36.1	30.1	36.1	41.9	47.9	53.7	75.6	113.5	151.4
117.5°	181.2	161.9	142.6	123.2	142.6	161.9	181.2	200.6	214.8	224.0	233.2
120°	257.6	246.6	235.5	224.5	235.5	246.6	257.6	268.6	273.7	272.7	271.7
122.5°	286.5	284.4	282.2	280.1	282.2	284.4	286.5	288.7	289.5	288.9	288.3
125°	313.9	314.2	314.4	314.6	314.4	314.2	313.9	313.7	313.2	312.7	312.1
127.5°	336.3	336.3	336.4	336.4	336.4	336.3	336.3	336.2	335.8	334.9	334.2
130°	350.3	350.2	350.1	350.0	350.1	350.2	350.3	350.3	349.9	349.0	348.1
132.5°	363.4	363.3	363.3	363.3	363.3	363.3	363.4	363.5	363.2	362.4	361.7
135°	382.9	382.7	382.5	382.4	382.5	382.7	382.9	383.0	382.7	381.9	381.1
137.5°	400.6	400.4	400.1	399.8	400.1	400.4	400.6	400.9	400.6	399.8	399.1
140°	411.9	411.5	411.1	410.7	411.1	411.5	411.9	412.3	412.2	411.5	410.7
142.5°	422.5	422.1	421.7	421.3	421.7	422.1	422.5	422.9	422.8	422.1	421.5
145°	437.3	436.9	436.5	436.1	436.5	436.9	437.3	437.7	437.6	437.0	436.5
147.5°	450.1	449.8	449.4	449.1	449.4	449.8	450.1	450.5	450.5	450.0	449.6
150°	458.3	457.9	457.4	457.1	457.4	457.9	458.3	458.7	458.7	458.1	457.7
152.5°	465.5	464.9	464.3	463.8	464.3	464.9	465.5	466.0	466.1	465.5	465.0
155°	475.2	474.6	473.9	473.3	473.9	474.6	475.2	475.9	476.0	475.4	475.0
157.5°	483.8	483.1	482.5	481.9	482.5	483.1	483.8	484.4	484.5	483.9	483.4
160°	488.6	488.0	487.4	486.9	487.4	488.0	488.6	489.1	489.2	488.7	488.2
162.5°	493.1	492.4	491.7	491.0	491.7	492.4	493.1	493.8	493.9	493.4	492.8
165°	498.9	498.3	497.7	497.1	497.7	498.3	498.9	499.5	499.5	498.9	498.3
167.5°	503.3	502.6	501.8	501.1	501.8	502.6	503.3	504.0	504.1	503.5	503.0
170°	505.7	504.9	504.2	503.4	504.2	504.9	505.7	506.4	506.4	505.9	505.3
172.5°	507.4	506.7	505.9	505.2	505.9	506.7	507.4	508.2	508.2	507.6	507.0
175°	509.2	508.4	507.6	506.8	507.6	508.4	509.2	510.1	510.1	509.5	509.0
177.5°	509.5	508.9	508.2	507.7	508.2	508.9	509.5	510.1	510.1	509.6	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	541.3	543.5	546.7	548.6	551.7	553.8	554.9	556.9	558.0	562.0	566.0
5°	511.0	514.2	519.6	524.7	530.2	535.9	540.0	544.7	549.0	556.4	564.2
7.5°	476.4	480.7	489.2	497.3	506.9	514.9	521.9	529.9	537.1	547.8	558.9
10°	450.4	458.1	469.2	476.8	489.3	497.3	508.5	517.3	527.3	541.4	553.9
12.5°	428.0	437.2	446.2	456.8	468.0	481.4	493.6	505.0	516.8	531.3	546.0
15°	387.4	400.7	414.7	425.4	440.7	454.7	469.0	484.2	498.7	516.2	535.3
17.5°	335.2	350.6	373.9	392.4	410.3	424.4	442.1	460.5	477.6	498.6	520.0
20°	311.6	322.9	338.7	363.6	390.5	405.6	423.6	443.9	463.5	486.4	509.3
22.5°	292.7	302.7	315.4	334.8	364.9	385.5	404.2	424.9	447.5	470.9	496.3
25°	265.6	272.6	285.9	301.6	322.3	356.1	376.7	397.4	422.1	447.1	476.0
27.5°	245.3	251.7	260.3	275.2	290.6	315.0	347.6	370.2	394.8	422.9	453.0
30°	229.8	237.2	246.8	257.4	274.2	293.2	325.8	352.1	376.3	405.3	437.3
32.5°	218.5	224.4	232.6	243.3	257.3	275.5	301.6	333.4	357.1	387.5	421.0
35°	200.1	206.9	213.5	223.8	235.1	251.7	271.5	305.5	329.0	359.0	392.7
37.5°	184.9	189.1	196.4	204.5	216.5	228.9	246.0	276.5	301.9	331.4	365.8
40°	173.3	178.6	184.0	193.0	202.9	214.7	231.5	254.3	283.4	312.4	345.9
42.5°	162.0	168.7	174.5	180.6	191.2	203.2	216.9	236.1	265.9	293.3	326.0
45°	148.4	152.7	158.8	165.5	174.3	184.4	196.6	213.4	241.9	265.6	296.3
47.5°	132.7	139.0	142.9	149.4	157.7	167.5	178.7	193.3	216.4	238.6	267.1
50°	121.8	128.3	134.0	139.8	147.2	156.6	166.1	180.1	198.7	222.0	248.6
52.5°	112.6	118.3	123.8	129.7	137.0	145.5	154.5	166.9	182.7	204.1	230.0
55°	100.0	103.5	109.2	115.0	121.5	129.7	138.3	148.6	162.3	180.3	201.2
57.5°	87.0	91.0	95.5	101.4	108.0	114.3	122.0	131.4	142.2	158.4	176.3
60°	79.6	82.7	86.4	92.5	98.6	104.3	111.7	119.5	129.7	143.8	159.0
62.5°	71.5	74.5	77.8	83.1	89.0	94.2	100.7	109.0	117.6	130.4	143.8
65°	57.9	62.2	65.5	70.2	75.1	80.6	85.7	92.3	100.0	110.1	122.0
67.5°	48.0	50.2	53.3	57.5	62.5	67.2	72.1	77.2	83.9	91.7	101.2
70°	43.7	44.4	44.9	49.1	53.8	58.5	62.9	67.8	73.5	80.0	88.2
72.5°	38.5	39.3	40.0	41.8	45.5	50.2	54.8	58.5	63.8	69.2	75.9
75°	30.5	31.7	32.3	33.2	34.6	37.7	42.0	45.5	48.7	52.8	58.1
77.5°	23.2	23.9	24.5	25.6	26.4	27.8	30.3	33.4	36.4	38.7	42.4
80°	18.4	18.6	19.4	19.7	20.9	21.9	23.1	25.7	28.6	29.5	32.1
82.5°	13.9	14.0	14.6	15.1	15.6	16.4	17.9	18.6	20.9	22.2	23.8
85°	7.7	7.4	8.0	8.0	8.4	8.8	9.2	10.2	10.8	12.3	12.7
87.5°	3.9	3.8	3.9	3.7	3.6	3.8	3.8	3.7	3.9	4.1	4.6
90°	7.7	7.3	6.7	6.0	5.4	4.7	4.0	3.1	2.2	1.3	0.3
92.5°	8.8	8.5	8.2	7.9	7.6	7.2	7.1	7.1	7.2	7.3	7.4
95°	14.7	14.4	13.8	13.2	12.7	12.1	13.1	15.8	18.5	21.2	23.9
97.5°	19.5	19.2	17.9	16.5	15.2	13.9	17.0	24.6	32.3	39.9	47.4
100°	21.6	21.0	19.5	18.2	16.8	15.4	20.3	31.5	42.7	53.9	65.2
102.5°	22.4	21.5	33.2	44.9	56.5	68.1	75.1	77.5	79.8	82.2	84.6
105°	23.3	22.5	44.8	67.1	89.5	111.8	121.7	119.2	116.8	114.3	111.8
107.5°	30.5	31.4	58.2	85.0	111.8	138.5	150.9	149.0	147.0	145.0	143.0
110°	56.2	64.4	88.0	111.7	135.3	158.9	169.9	168.2	166.4	164.7	163.0



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	132.6	162.5	168.2	174.1	179.9	185.8	188.0	186.4	184.9	183.4	181.8
115°	189.2	227.0	225.0	223.0	220.9	218.9	217.1	215.8	214.4	213.0	211.6
117.5°	242.4	251.5	250.1	248.7	247.3	245.9	244.4	242.8	241.3	239.7	238.2
120°	270.7	269.8	268.3	266.8	265.4	263.9	262.5	261.3	260.0	258.8	257.6
122.5°	287.7	287.1	285.5	283.9	282.3	280.7	279.2	277.9	276.6	275.3	274.1
125°	311.5	311.0	309.4	307.9	306.3	304.7	303.4	302.4	301.4	300.2	299.2
127.5°	333.3	332.4	331.3	330.1	329.0	327.8	326.7	325.5	324.3	323.1	321.9
130°	347.2	346.3	345.4	344.5	343.6	342.7	341.6	340.3	339.0	337.7	336.4
132.5°	360.9	360.2	359.2	358.3	357.4	356.5	355.5	354.4	353.3	352.1	351.1
135°	380.2	379.4	378.7	378.0	377.2	376.4	375.5	374.1	372.8	371.5	370.2
137.5°	398.2	397.4	396.6	395.8	394.9	394.1	393.2	392.4	391.4	390.5	389.6
140°	409.9	409.2	408.3	407.4	406.6	405.6	404.8	404.2	403.6	402.9	402.3
142.5°	420.8	420.1	419.0	418.0	417.0	416.0	415.2	414.6	414.0	413.5	412.8
145°	435.9	435.3	433.9	432.6	431.2	429.8	429.1	429.2	429.3	429.4	429.5
147.5°	449.2	448.8	447.4	446.0	444.6	443.2	442.7	443.1	443.3	443.7	443.9
150°	457.2	456.7	455.4	454.1	452.8	451.4	451.1	451.7	452.2	452.8	453.4
152.5°	464.5	464.1	462.8	461.6	460.3	459.1	458.7	459.4	460.0	460.7	461.3
155°	474.5	474.0	473.0	472.0	471.1	470.1	469.9	470.7	471.4	472.2	472.9
157.5°	482.8	482.2	481.6	480.9	480.2	479.5	479.5	480.1	480.7	481.3	481.9
160°	487.8	487.2	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2
162.5°	492.2	491.6	491.2	490.8	490.3	490.0	490.0	490.5	490.9	491.5	492.0
165°	497.7	497.1	497.0	496.7	496.5	496.2	496.3	496.8	497.3	497.8	498.3
167.5°	502.4	501.8	501.6	501.4	501.1	500.9	501.0	501.5	502.0	502.5	503.0
170°	504.7	504.2	504.0	503.9	503.7	503.5	503.7	504.2	504.6	505.1	505.7
172.5°	506.5	505.9	505.8	505.6	505.4	505.3	505.4	505.9	506.4	507.0	507.4
175°	508.4	507.8	507.6	507.6	507.4	507.2	507.4	508.0	508.5	509.1	509.7
177.5°	508.8	508.2	508.2	508.2	508.1	508.0	508.2	508.7	509.1	509.6	510.1
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	566.2	566.6	569.7	571.2	573.9	575.1	576.4	576.0	576.0	576.6	581.0
5°	567.4	571.3	577.1	582.8	588.3	593.0	596.2	599.3	600.5	606.1	611.1
7.5°	565.3	572.6	582.2	590.9	601.2	609.3	616.0	622.2	626.3	634.6	643.0
10°	562.7	572.8	583.8	595.0	609.2	620.0	630.9	639.4	642.0	654.4	661.4
12.5°	557.3	570.9	584.9	599.3	613.3	628.1	640.2	648.6	658.2	669.3	682.3
15°	549.4	565.0	583.2	601.8	621.7	639.7	652.6	667.3	677.9	690.0	701.4
17.5°	538.0	558.1	581.2	602.7	625.8	645.1	662.9	676.9	684.3	691.3	692.9
20°	528.8	550.5	577.7	603.1	626.2	648.5	666.2	677.9	679.8	680.0	669.7
22.5°	519.0	543.5	572.0	598.0	625.6	650.4	664.1	669.1	661.3	648.1	628.0
25°	500.8	529.3	562.3	592.0	622.2	645.6	650.3	641.5	614.3	585.7	549.6
27.5°	481.2	513.2	548.5	581.6	613.7	628.3	618.1	586.3	537.4	494.8	443.2
30°	466.8	502.7	537.4	574.4	604.2	610.4	587.1	540.4	483.3	419.1	367.6
32.5°	450.4	487.9	526.2	564.4	589.3	583.2	544.8	487.2	420.3	357.1	308.6
35°	427.0	465.6	507.0	545.3	561.1	534.7	477.2	402.3	333.8	275.0	241.5
37.5°	399.8	442.0	484.9	520.1	519.0	475.0	396.7	319.3	261.8	227.0	203.2
40°	380.6	423.3	469.6	499.3	486.6	429.3	344.4	271.5	229.4	201.6	184.3
42.5°	362.1	404.9	451.0	474.6	452.5	382.0	297.5	240.3	205.6	184.0	169.9
45°	330.7	375.9	418.5	431.6	392.1	314.5	240.6	199.1	176.0	160.0	150.2
47.5°	300.0	344.5	383.4	383.6	330.2	255.0	202.9	172.3	152.6	140.2	133.1
50°	281.2	323.5	356.1	351.0	290.4	226.9	181.5	155.1	138.7	129.1	121.7
52.5°	260.1	301.1	329.4	315.0	256.8	199.7	162.2	140.1	126.5	118.1	111.5
55°	229.4	265.8	285.8	263.8	209.5	166.1	137.1	119.7	109.5	102.5	96.8
57.5°	199.2	229.3	241.8	216.3	172.5	137.7	116.0	102.9	92.8	87.7	84.8
60°	180.3	206.0	214.7	186.6	150.0	120.5	102.7	90.6	83.1	79.8	76.9
62.5°	161.7	182.6	186.2	160.5	130.8	105.5	90.1	79.9	75.0	71.8	69.1
65°	134.1	149.2	147.5	126.7	103.5	83.7	72.6	66.3	62.6	58.1	53.2
67.5°	110.5	119.7	114.1	98.6	79.0	65.1	57.8	53.0	48.4	44.2	43.0
70°	95.4	100.7	94.9	80.6	64.7	54.6	48.7	43.0	40.3	39.3	37.5
72.5°	81.0	82.9	76.5	64.3	52.7	45.2	39.4	36.3	34.8	34.0	32.9
75°	60.8	59.5	54.0	44.4	36.6	31.5	29.7	28.6	27.6	26.8	26.2
77.5°	42.7	40.7	35.8	29.5	25.5	23.1	22.0	21.4	20.9	20.5	19.9
80°	32.1	30.7	25.8	21.1	19.4	18.2	17.6	16.8	16.8	16.4	15.8
82.5°	23.5	22.0	17.7	15.5	14.6	13.8	13.3	12.9	12.7	12.8	12.4
85°	12.3	10.0	8.8	8.4	7.8	7.4	7.7	7.2	7.2	7.2	7.1
87.5°	4.0	3.4	3.4	3.4	3.8	3.9	3.9	4.0	4.3	4.2	4.5
90°	1.3	2.2	3.1	4.0	4.7	5.4	6.0	6.7	7.3	7.7	8.2
92.5°	7.3	7.2	7.1	7.1	7.2	7.6	7.9	8.2	8.5	8.8	9.0
95°	21.2	18.5	15.8	13.1	12.1	12.7	13.2	13.8	14.4	14.7	15.2
97.5°	39.9	32.3	24.6	17.0	13.9	15.2	16.5	17.9	19.2	19.5	19.9
100°	53.9	42.7	31.5	20.3	15.4	16.8	18.2	19.5	21.0	21.6	22.3
102.5°	82.2	79.8	77.5	75.1	68.1	56.5	44.9	33.2	21.5	22.4	23.2
105°	114.3	116.8	119.2	121.7	111.8	89.5	67.1	44.8	22.5	23.3	24.3
107.5°	145.0	147.0	149.0	150.9	138.5	111.8	85.0	58.2	31.4	30.5	29.6
110°	164.7	166.4	168.2	169.9	158.9	135.3	111.7	88.0	64.4	56.2	48.0



TEST NUMBER: P331765-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	183.4	184.9	186.4	188.0	185.8	179.9	174.1	168.2	162.5	132.6	102.8
115°	213.0	214.4	215.8	217.1	218.9	220.9	223.0	225.0	227.0	189.2	151.4
117.5°	239.7	241.3	242.8	244.4	245.9	247.3	248.7	250.1	251.5	242.4	233.2
120°	258.8	260.0	261.3	262.5	263.9	265.4	266.8	268.3	269.8	270.7	271.7
122.5°	275.3	276.6	277.9	279.2	280.7	282.3	283.9	285.5	287.1	287.7	288.3
125°	300.2	301.4	302.4	303.4	304.7	306.3	307.9	309.4	311.0	311.5	312.1
127.5°	323.1	324.3	325.5	326.7	327.8	329.0	330.1	331.3	332.4	333.3	334.2
130°	337.7	339.0	340.3	341.6	342.7	343.6	344.5	345.4	346.3	347.2	348.1
132.5°	352.1	353.3	354.4	355.5	356.5	357.4	358.3	359.2	360.2	360.9	361.7
135°	371.5	372.8	374.1	375.5	376.4	377.2	378.0	378.7	379.4	380.2	381.1
137.5°	390.5	391.4	392.4	393.2	394.1	394.9	395.8	396.6	397.4	398.2	399.1
140°	402.9	403.6	404.2	404.8	405.6	406.6	407.4	408.3	409.2	409.9	410.7
142.5°	413.5	414.0	414.6	415.2	416.0	417.0	418.0	419.0	420.1	420.8	421.5
145°	429.4	429.3	429.2	429.1	429.8	431.2	432.6	433.9	435.3	435.9	436.5
147.5°	443.7	443.3	443.1	442.7	443.2	444.6	446.0	447.4	448.8	449.2	449.6
150°	452.8	452.2	451.7	451.1	451.4	452.8	454.1	455.4	456.7	457.2	457.7
152.5°	460.7	460.0	459.4	458.7	459.1	460.3	461.6	462.8	464.1	464.5	465.0
155°	472.2	471.4	470.7	469.9	470.1	471.1	472.0	473.0	474.0	474.5	475.0
157.5°	481.3	480.7	480.1	479.5	479.5	480.2	480.9	481.6	482.2	482.8	483.4
160°	486.7	486.3	485.8	485.3	485.3	485.8	486.3	486.7	487.2	487.8	488.2
162.5°	491.5	490.9	490.5	490.0	490.0	490.3	490.8	491.2	491.6	492.2	492.8
165°	497.8	497.3	496.8	496.3	496.2	496.5	496.7	497.0	497.1	497.7	498.3
167.5°	502.5	502.0	501.5	501.0	500.9	501.1	501.4	501.6	501.8	502.4	503.0
170°	505.1	504.6	504.2	503.7	503.5	503.7	503.9	504.0	504.2	504.7	505.3
172.5°	507.0	506.4	505.9	505.4	505.3	505.4	505.6	505.8	505.9	506.5	507.0
175°	509.1	508.5	508.0	507.4	507.2	507.4	507.6	507.6	507.8	508.4	509.0
177.5°	509.6	509.1	508.7	508.2	508.0	508.1	508.2	508.2	508.2	508.8	509.2
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6	508.6



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	582.6	584.6	585.6	585.6	586.7	586.2	585.7
5°	616.0	619.7	620.6	624.1	626.6	625.9	626.2
7.5°	649.4	655.3	661.2	663.9	664.3	665.9	666.5
10°	669.9	674.8	683.9	682.6	689.4	693.4	686.9
12.5°	689.6	696.2	702.6	704.3	708.2	709.5	706.9
15°	707.4	710.9	711.3	710.3	711.5	710.5	706.8
17.5°	690.8	685.0	673.5	668.0	663.7	657.2	654.6
20°	663.2	646.4	626.8	619.0	609.8	591.9	596.2
22.5°	603.7	584.6	565.0	542.2	531.2	514.2	513.2
25°	511.3	478.2	441.8	416.4	401.5	384.5	377.0
27.5°	397.5	355.9	326.1	311.0	297.2	283.8	283.2
30°	322.7	291.4	268.4	255.5	247.0	241.3	242.5
32.5°	272.0	250.6	235.0	224.3	218.1	213.8	213.7
35°	222.4	207.7	197.7	193.2	188.7	185.6	185.8
37.5°	190.3	181.5	175.9	171.0	168.2	166.6	165.7
40°	173.8	166.6	162.3	159.4	157.0	154.9	154.5
42.5°	160.9	154.9	150.6	148.3	146.1	144.6	144.2
45°	142.8	137.8	134.0	131.4	130.4	129.1	129.1
47.5°	127.0	122.2	119.2	117.5	115.9	114.9	114.9
50°	116.4	112.6	109.9	108.9	107.5	107.0	106.8
52.5°	106.9	104.0	102.1	101.4	100.8	100.1	100.2
55°	93.8	92.3	91.5	90.9	90.0	88.8	89.5
57.5°	83.0	81.6	79.6	77.7	76.8	75.9	76.3
60°	75.3	72.6	69.8	67.7	67.1	65.3	65.3
62.5°	65.6	61.7	58.4	57.2	56.6	55.8	55.6
65°	50.5	48.9	48.1	47.4	46.9	46.9	46.6
67.5°	41.8	41.2	40.3	40.1	39.8	39.6	39.5
70°	36.9	36.2	35.8	35.6	35.2	35.4	34.8
72.5°	32.3	31.7	31.6	31.1	30.8	30.8	30.4
75°	25.4	25.4	25.2	25.1	24.6	24.5	24.6
77.5°	19.5	19.6	19.3	19.2	19.2	19.2	19.0
80°	15.7	15.8	15.7	15.4	15.2	15.4	15.2
82.5°	12.4	12.1	12.1	12.0	12.0	11.9	11.8
85°	7.1	7.2	7.1	6.9	6.9	6.9	7.1
87.5°	4.4	4.5	4.5	4.6	4.6	4.6	4.5
90°	8.6	9.0	9.3	9.5	9.6	9.8	9.9
92.5°	9.2	9.4	9.6	9.6	9.7	9.8	9.9
95°	15.6	16.0	16.2	16.1	16.0	15.9	15.8
97.5°	20.2	20.5	20.8	20.8	20.9	21.0	21.1
100°	22.9	23.6	24.0	24.2	24.4	24.5	24.6
102.5°	24.1	25.0	25.5	25.7	26.0	26.2	26.4
105°	25.1	26.1	26.7	26.9	27.3	27.6	28.0
107.5°	28.7	27.7	27.5	27.8	28.2	28.4	28.8
110°	39.9	31.7	27.7	28.1	28.4	28.8	29.1



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CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	72.9	43.1	28.3	28.6	28.8	29.1	29.4
115°	113.5	75.6	53.7	47.9	41.9	36.1	30.1
117.5°	224.0	214.8	200.6	181.2	161.9	142.6	123.2
120°	272.7	273.7	268.6	257.6	246.6	235.5	224.5
122.5°	288.9	289.5	288.7	286.5	284.4	282.2	280.1
125°	312.7	313.2	313.7	313.9	314.2	314.4	314.6
127.5°	334.9	335.8	336.2	336.3	336.3	336.4	336.4
130°	349.0	349.9	350.3	350.3	350.2	350.1	350.0
132.5°	362.4	363.2	363.5	363.4	363.3	363.3	363.3
135°	381.9	382.7	383.0	382.9	382.7	382.5	382.4
137.5°	399.8	400.6	400.9	400.6	400.4	400.1	399.8
140°	411.5	412.2	412.3	411.9	411.5	411.1	410.7
142.5°	422.1	422.8	422.9	422.5	422.1	421.7	421.3
145°	437.0	437.6	437.7	437.3	436.9	436.5	436.1
147.5°	450.0	450.5	450.5	450.1	449.8	449.4	449.1
150°	458.1	458.7	458.7	458.3	457.9	457.4	457.1
152.5°	465.5	466.1	466.0	465.5	464.9	464.3	463.8
155°	475.4	476.0	475.9	475.2	474.6	473.9	473.3
157.5°	483.9	484.5	484.4	483.8	483.1	482.5	481.9
160°	488.7	489.2	489.1	488.6	488.0	487.4	486.9
162.5°	493.4	493.9	493.8	493.1	492.4	491.7	491.0
165°	498.9	499.5	499.5	498.9	498.3	497.7	497.1
167.5°	503.5	504.1	504.0	503.3	502.6	501.8	501.1
170°	505.9	506.4	506.4	505.7	504.9	504.2	503.4
172.5°	507.6	508.2	508.2	507.4	506.7	505.9	505.2
175°	509.5	510.1	510.1	509.2	508.4	507.6	506.8
177.5°	509.6	510.1	510.1	509.5	508.9	508.2	507.7
180°	508.6	508.6	508.6	508.6	508.6	508.6	508.6

(END OF REPORT)