

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: P331766-935

Luminaire Tested: **S122RDIW-S290D435U935-4F0-1E-UDD-A1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P331766-935
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8,
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-A1
Description: DEFINE 2 DIRECT-INDIRECT WALL MOUNT LED LUMINAIRE
DOWNLIGHT 290 LUMENS PER FOOT, ASYMMETRIC DIFFUSER, REGRESSED HOUSING
UPLIGHT 435 LUMENS PER FOOT, FLUSH SATIN WHITE DIFFUSER
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2267.1 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: General Diffuse

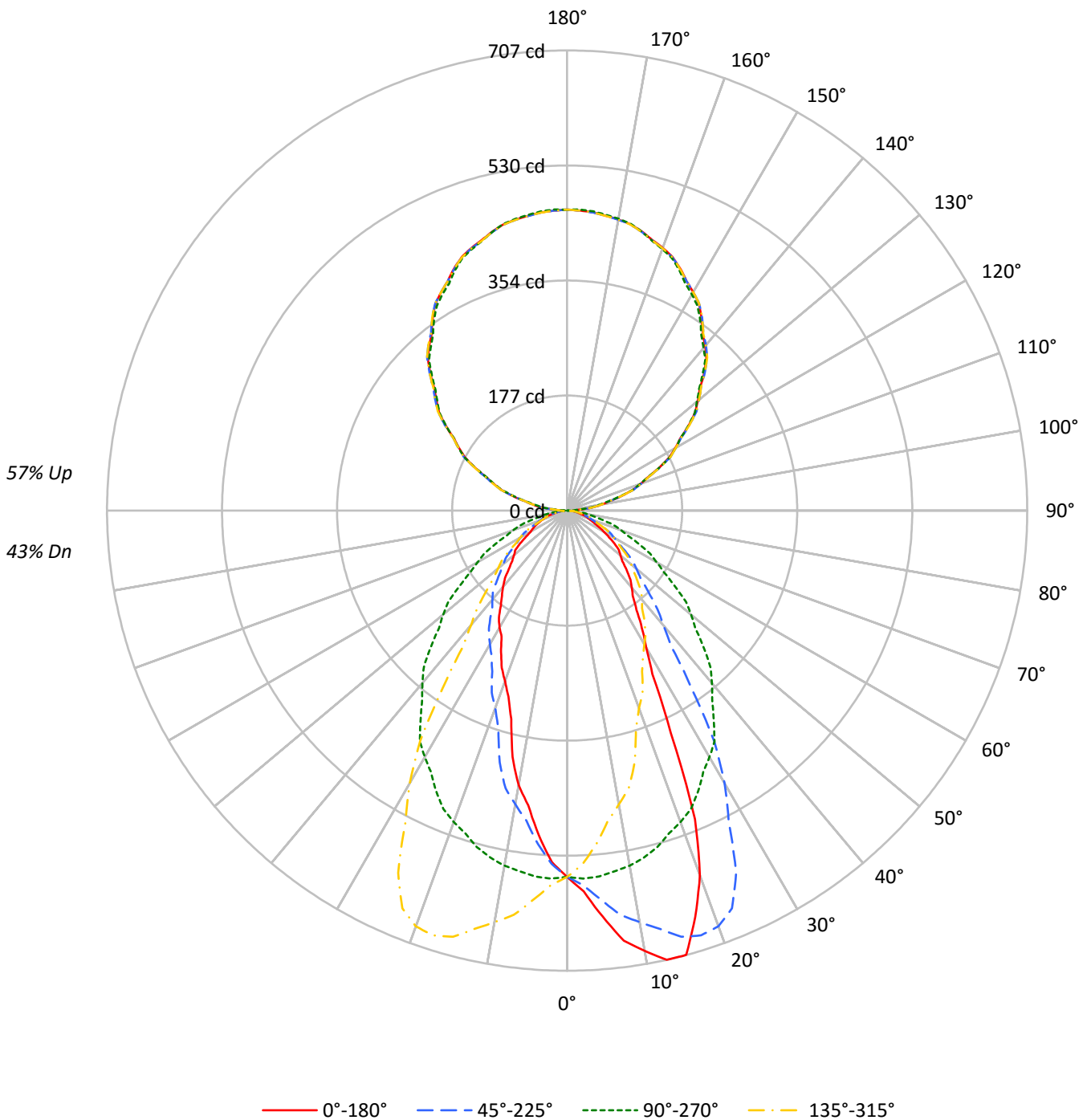
Input Watts (W): 23
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	97	93	89	86	88	85	82	79	71	68	66	57	56	54	45	44	43	37
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	40	39	37	33
3	81	73	66	60	74	67	61	56	56	52	48	46	43	40	36	34	33	28
4	75	65	57	52	68	60	53	48	50	45	42	41	38	35	33	31	29	25
5	69	58	50	45	63	54	47	42	45	40	36	37	34	31	30	28	26	22
6	64	52	45	39	58	48	42	37	41	36	32	34	30	28	28	25	23	20
7	59	48	40	35	54	44	37	33	37	32	29	31	28	25	26	23	21	18
8	55	43	36	31	50	40	34	29	34	29	26	29	25	22	24	21	19	17
9	51	40	33	28	47	37	31	26	32	27	23	27	23	20	22	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	25	21	18	21	18	16	14

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



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	2.4
10°-20°	148.7	6.6
20°-30°	191.6	8.5
30°-40°	182.1	8.0
40°-50°	156.0	6.9
50°-60°	118.8	5.2
60°-70°	75.1	3.3
70°-80°	37.5	1.7
80°-90°	11.6	0.5
90°-100°	29.3	1.3
100°-110°	91.0	4.0
110°-120°	155.5	6.9
120°-130°	204.5	9.0
130°-140°	229.5	10.1
140°-150°	225.0	9.9
150°-160°	188.8	8.3
160°-170°	125.2	5.5
170°-180°	43.8	1.9
0°-30°	393.6	17.4
0°-40°	575.7	25.4
0°-60°	850.4	37.5
0°-90°	974.6	43.0
90°-120°	275.7	12.2
90°-150°	934.8	41.2
90°-180°	1293.0	57.0
0°-180°	2267.1	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°	13	0	13	0	13	6
95°	24	20	24	20	24	27
105°	87	84	87	84	87	91
115°	156	156	156	156	156	154
125°	228	227	228	227	228	203
135°	297	294	297	294	297	229
145°	360	356	360	356	360	225
155°	411	408	411	408	411	189
165°	444	444	444	444	444	125
175°	460	462	460	462	460	44
180°	462	462	462	462	462	



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	5.2	5.3	5.3	5.3	5.3	5.3	5.3	5.5	5.3	5.5	5.0
90°	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3	13.5	13.7	11.7
92.5°	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.0
95°	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0	25.0	25.0	24.8
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.7
100°	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8	53.8	53.8	53.6
102.5°	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7	66.7	66.6	66.3
105°	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2	86.0	85.8	85.7
107.5°	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1	107.0	106.9	106.9
110°	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3	121.3	121.3	121.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6	135.8	136.0	136.0
115°	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4	157.5	157.6	157.7
117.5°	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6	178.7	179.0	179.4
120°	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7	192.7	192.7	193.4
122.5°	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2	207.5	207.7	208.2
125°	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9	229.1	229.4	229.6
127.5°	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8	250.1	250.5	250.7
130°	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2	264.3	264.5	264.7
132.5°	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1	278.4	278.8	278.8
135°	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6	298.7	298.8	298.6
137.5°	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3	318.4	318.5	318.2
140°	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6	331.6	331.6	331.1
142.5°	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5	343.5	343.5	343.1
145°	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8	361.7	361.6	361.1
147.5°	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7	377.5	377.4	377.0
150°	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9	387.6	387.4	387.0
152.5°	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0	397.7	397.4	396.9
155°	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9	410.4	410.0	409.7
157.5°	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7	422.1	421.5	421.4
160°	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7	429.2	428.7	428.6
162.5°	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1	435.5	435.0	434.9
165°	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4	443.8	443.2	443.2
167.5°	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2	450.6	450.0	450.0
170°	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9	454.3	453.7	453.7
172.5°	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7	457.1	456.5	456.6
175°	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7	460.1	459.5	459.7
177.5°	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2	461.8	461.3	461.4
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	4.6	4.4	4.0	3.5	3.5	3.4	4.0	4.6	4.2	4.0	3.8
90°	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4	1.5	2.5	3.5
92.5°	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0	7.7	8.4	9.2
95°	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3	21.2	22.0	22.9
97.5°	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0	37.8	38.6	39.3
100°	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5	50.2	50.9	51.7
102.5°	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7	63.2	63.7	64.3
105°	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9	84.1	84.4	84.6
107.5°	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2	105.6	106.0	106.4
110°	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0	119.5	120.0	120.5



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0	134.5	135.0	135.5
115°	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0	156.5	157.0	157.6
117.5°	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1	178.7	179.4	180.1
120°	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	193.4	194.1	194.8
122.5°	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1	207.0	207.8	208.6
125°	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0	227.8	228.6	229.4
127.5°	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4	248.4	249.3	250.4
130°	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2	261.3	262.4	263.6
132.5°	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6	275.4	276.4	277.3
135°	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8	294.7	295.7	296.6
137.5°	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9	314.7	315.5	316.2
140°	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1	326.9	327.7	328.5
142.5°	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6	339.4	340.2	341.0
145°	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5	357.1	357.7	358.3
147.5°	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6	373.2	374.0	374.7
150°	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5	384.0	384.5	385.0
152.5°	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1	393.6	394.2	394.7
155°	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6	407.9	408.1	408.5
157.5°	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1	420.3	420.4	420.6
160°	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6	427.7	427.9	428.1
162.5°	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4	434.5	434.5	434.5
165°	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5	443.4	443.3	443.2
167.5°	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2	450.9	450.6	450.4
170°	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2	455.0	454.7	454.4
172.5°	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1	457.8	457.5	457.3
175°	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5	461.2	461.0	460.7
177.5°	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9	462.7	462.4	462.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	3.9	4.0	4.0	4.5	4.8	5.1	5.1	4.8	4.8	4.8	4.6
90°	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3	13.2	13.0	12.9
92.5°	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5	12.5	12.6	12.6
95°	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0	25.0	25.0	24.9
97.5°	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9	41.9	41.9	41.9
100°	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8	53.8	53.8	53.8
102.5°	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7	66.8	66.9	66.9
105°	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2	86.4	86.5	86.6
107.5°	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1	107.2	107.3	107.1
110°	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.3	121.1



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6	135.3	135.2	134.9
115°	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4	157.3	157.2	157.0
117.5°	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6	178.3	178.1	177.9
120°	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7	192.7	192.7	192.6
122.5°	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2	207.1	206.8	206.6
125°	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9	228.6	228.3	228.2
127.5°	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8	249.5	249.2	248.9
130°	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2	264.0	263.8	263.6
132.5°	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1	277.7	277.3	277.0
135°	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6	298.5	298.4	298.3
137.5°	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3	318.2	318.2	318.0
140°	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6	331.6	331.6	331.4
142.5°	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5	343.6	343.7	343.5
145°	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8	361.9	362.0	361.8
147.5°	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7	378.0	378.2	378.1
150°	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9	388.1	388.4	388.4
152.5°	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0	398.3	398.6	398.6
155°	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9	411.3	411.7	411.8
157.5°	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7	423.3	423.9	424.0
160°	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7	430.2	430.8	430.8
162.5°	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1	436.7	437.3	437.4
165°	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4	445.0	445.6	445.7
167.5°	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2	451.8	452.4	452.5
170°	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9	455.5	456.1	456.2
172.5°	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7	458.3	458.9	458.9
175°	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7	461.3	461.9	462.0
177.5°	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2	462.5	463.0	463.0
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	4.6	4.5	4.6	4.6	4.6	4.5	4.6	4.6	4.8	4.8	4.8
90°	13.0	13.1	13.2	13.3	13.2	13.1	13.0	12.9	13.0	13.2	13.3
92.5°	12.6	12.6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5
95°	24.7	24.5	24.4	24.2	24.4	24.5	24.7	24.9	25.0	25.0	25.0
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.7	53.6	53.6	53.5	53.6	53.6	53.7	53.8	53.8	53.8	53.8
102.5°	66.8	66.7	66.6	66.6	66.6	66.7	66.8	66.9	66.9	66.8	66.7
105°	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.5	86.4	86.2
107.5°	106.7	106.2	105.9	105.5	105.9	106.2	106.7	107.1	107.3	107.2	107.1
110°	120.9	120.6	120.4	120.1	120.4	120.6	120.9	121.1	121.3	121.3	121.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	134.7	134.6	134.4	134.2	134.4	134.6	134.7	134.9	135.2	135.3	135.6
115°	156.8	156.5	156.3	156.0	156.3	156.5	156.8	157.0	157.2	157.3	157.4
117.5°	177.6	177.4	177.1	176.8	177.1	177.4	177.6	177.9	178.1	178.3	178.6
120°	192.3	192.1	191.8	191.6	191.8	192.1	192.3	192.6	192.7	192.7	192.7
122.5°	206.5	206.3	206.0	205.9	206.0	206.3	206.5	206.6	206.8	207.1	207.2
125°	228.1	228.0	227.9	227.8	227.9	228.0	228.1	228.2	228.3	228.6	228.9
127.5°	248.6	248.3	248.1	247.8	248.1	248.3	248.6	248.9	249.2	249.5	249.8
130°	263.2	262.9	262.5	262.2	262.5	262.9	263.2	263.6	263.8	264.0	264.2
132.5°	276.7	276.4	276.1	275.9	276.1	276.4	276.7	277.0	277.3	277.7	278.1
135°	298.0	297.7	297.5	297.2	297.5	297.7	298.0	298.3	298.4	298.5	298.6
137.5°	317.6	317.3	316.9	316.6	316.9	317.3	317.6	318.0	318.2	318.2	318.3
140°	331.1	330.7	330.4	330.0	330.4	330.7	331.1	331.4	331.6	331.6	331.6
142.5°	343.2	342.9	342.5	342.2	342.5	342.9	343.2	343.5	343.7	343.6	343.5
145°	361.4	361.1	360.8	360.4	360.8	361.1	361.4	361.8	362.0	361.9	361.8
147.5°	377.7	377.4	377.0	376.8	377.0	377.4	377.7	378.1	378.2	378.0	377.7
150°	388.1	387.9	387.6	387.4	387.6	387.9	388.1	388.4	388.4	388.1	387.9
152.5°	398.3	398.0	397.7	397.4	397.7	398.0	398.3	398.6	398.6	398.3	398.0
155°	411.6	411.3	411.0	410.8	411.0	411.3	411.6	411.8	411.7	411.3	410.9
157.5°	423.5	423.1	422.8	422.3	422.8	423.1	423.5	424.0	423.9	423.3	422.7
160°	430.5	430.2	429.8	429.5	429.8	430.2	430.5	430.8	430.8	430.2	429.7
162.5°	437.0	436.5	436.1	435.8	436.1	436.5	437.0	437.4	437.3	436.7	436.1
165°	445.2	444.8	444.4	443.9	444.4	444.8	445.2	445.7	445.6	445.0	444.4
167.5°	451.9	451.5	451.1	450.6	451.1	451.5	451.9	452.5	452.4	451.8	451.2
170°	455.6	455.1	454.6	454.1	454.6	455.1	455.6	456.2	456.1	455.5	454.9
172.5°	458.4	457.9	457.4	456.8	457.4	457.9	458.4	458.9	458.9	458.3	457.7
175°	461.5	461.0	460.5	459.9	460.5	461.0	461.5	462.0	461.9	461.3	460.7
177.5°	462.5	462.2	461.8	461.3	461.8	462.2	462.5	463.0	463.0	462.5	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	5.1	5.1	4.8	4.5	4.0	4.0	3.9	3.8	4.0	4.2	4.6
90°	13.5	13.7	11.7	9.8	7.9	6.0	4.6	3.5	2.5	1.5	0.4
92.5°	12.4	12.4	12.0	11.5	11.0	10.6	10.0	9.2	8.4	7.7	7.0
95°	25.0	25.0	24.8	24.6	24.5	24.3	23.8	22.9	22.0	21.2	20.3
97.5°	41.9	41.9	41.7	41.3	41.0	40.6	40.1	39.3	38.6	37.8	37.0
100°	53.8	53.8	53.6	53.3	53.0	52.8	52.3	51.7	50.9	50.2	49.5
102.5°	66.7	66.6	66.3	66.0	65.6	65.3	64.8	64.3	63.7	63.2	62.7
105°	86.0	85.8	85.7	85.5	85.3	85.2	84.9	84.6	84.4	84.1	83.9
107.5°	107.0	106.9	106.9	106.9	106.9	106.9	106.8	106.4	106.0	105.6	105.2
110°	121.3	121.3	121.3	121.3	121.3	121.3	121.1	120.5	120.0	119.5	119.0



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	135.8	136.0	136.0	136.1	136.2	136.3	136.0	135.5	135.0	134.5	134.0
115°	157.5	157.6	157.7	157.9	158.1	158.3	158.1	157.6	157.0	156.5	156.0
117.5°	178.7	179.0	179.4	179.9	180.5	180.9	180.8	180.1	179.4	178.7	178.1
120°	192.7	192.7	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7
122.5°	207.5	207.7	208.2	208.6	209.1	209.7	209.5	208.6	207.8	207.0	206.1
125°	229.1	229.4	229.6	229.9	230.1	230.4	230.1	229.4	228.6	227.8	227.0
127.5°	250.1	250.5	250.7	251.1	251.4	251.7	251.3	250.4	249.3	248.4	247.4
130°	264.3	264.5	264.7	264.8	265.0	265.2	264.7	263.6	262.4	261.3	260.2
132.5°	278.4	278.8	278.8	278.8	278.7	278.7	278.2	277.3	276.4	275.4	274.6
135°	298.7	298.8	298.6	298.4	298.3	298.1	297.6	296.6	295.7	294.7	293.8
137.5°	318.4	318.5	318.2	318.1	317.8	317.5	317.0	316.2	315.5	314.7	313.9
140°	331.6	331.6	331.1	330.7	330.3	329.8	329.2	328.5	327.7	326.9	326.1
142.5°	343.5	343.5	343.1	342.9	342.5	342.2	341.7	341.0	340.2	339.4	338.6
145°	361.7	361.6	361.1	360.6	360.1	359.6	359.0	358.3	357.7	357.1	356.5
147.5°	377.5	377.4	377.0	376.7	376.3	376.0	375.5	374.7	374.0	373.2	372.6
150°	387.6	387.4	387.0	386.7	386.3	386.0	385.6	385.0	384.5	384.0	383.5
152.5°	397.7	397.4	396.9	396.5	396.1	395.7	395.2	394.7	394.2	393.6	393.1
155°	410.4	410.0	409.7	409.5	409.2	409.0	408.7	408.5	408.1	407.9	407.6
157.5°	422.1	421.5	421.4	421.2	421.0	420.9	420.8	420.6	420.4	420.3	420.1
160°	429.2	428.7	428.6	428.5	428.4	428.3	428.3	428.1	427.9	427.7	427.6
162.5°	435.5	435.0	434.9	434.8	434.7	434.6	434.5	434.5	434.5	434.5	434.4
165°	443.8	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.3	443.4	443.5
167.5°	450.6	450.0	450.0	450.0	450.0	450.0	450.1	450.4	450.6	450.9	451.2
170°	454.3	453.7	453.7	453.8	453.9	454.0	454.2	454.4	454.7	455.0	455.2
172.5°	457.1	456.5	456.6	456.7	456.8	456.8	457.0	457.3	457.5	457.8	458.1
175°	460.1	459.5	459.7	459.9	460.0	460.2	460.5	460.7	461.0	461.2	461.5
177.5°	461.8	461.3	461.4	461.6	461.8	461.8	462.0	462.3	462.4	462.7	462.9
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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	3.5	3.5	4.0	4.4	4.6	5.0	5.5	5.3	5.5
90°	1.5	2.5	3.5	4.6	6.0	7.9	9.8	11.7	13.7	13.5	13.3
92.5°	7.7	8.4	9.2	10.0	10.6	11.0	11.5	12.0	12.4	12.4	12.5
95°	21.2	22.0	22.9	23.8	24.3	24.5	24.6	24.8	25.0	25.0	25.0
97.5°	37.8	38.6	39.3	40.1	40.6	41.0	41.3	41.7	41.9	41.9	41.9
100°	50.2	50.9	51.7	52.3	52.8	53.0	53.3	53.6	53.8	53.8	53.8
102.5°	63.2	63.7	64.3	64.8	65.3	65.6	66.0	66.3	66.6	66.7	66.7
105°	84.1	84.4	84.6	84.9	85.2	85.3	85.5	85.7	85.8	86.0	86.2
107.5°	105.6	106.0	106.4	106.8	106.9	106.9	106.9	106.9	106.9	107.0	107.1
110°	119.5	120.0	120.5	121.1	121.3	121.3	121.3	121.3	121.3	121.3	121.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	134.5	135.0	135.5	136.0	136.3	136.2	136.1	136.0	136.0	135.8	135.6
115°	156.5	157.0	157.6	158.1	158.3	158.1	157.9	157.7	157.6	157.5	157.4
117.5°	178.7	179.4	180.1	180.8	180.9	180.5	179.9	179.4	179.0	178.7	178.6
120°	193.4	194.1	194.8	195.4	195.4	194.8	194.1	193.4	192.7	192.7	192.7
122.5°	207.0	207.8	208.6	209.5	209.7	209.1	208.6	208.2	207.7	207.5	207.2
125°	227.8	228.6	229.4	230.1	230.4	230.1	229.9	229.6	229.4	229.1	228.9
127.5°	248.4	249.3	250.4	251.3	251.7	251.4	251.1	250.7	250.5	250.1	249.8
130°	261.3	262.4	263.6	264.7	265.2	265.0	264.8	264.7	264.5	264.3	264.2
132.5°	275.4	276.4	277.3	278.2	278.7	278.7	278.8	278.8	278.8	278.4	278.1
135°	294.7	295.7	296.6	297.6	298.1	298.3	298.4	298.6	298.8	298.7	298.6
137.5°	314.7	315.5	316.2	317.0	317.5	317.8	318.1	318.2	318.5	318.4	318.3
140°	326.9	327.7	328.5	329.2	329.8	330.3	330.7	331.1	331.6	331.6	331.6
142.5°	339.4	340.2	341.0	341.7	342.2	342.5	342.9	343.1	343.5	343.5	343.5
145°	357.1	357.7	358.3	359.0	359.6	360.1	360.6	361.1	361.6	361.7	361.8
147.5°	373.2	374.0	374.7	375.5	376.0	376.3	376.7	377.0	377.4	377.5	377.7
150°	384.0	384.5	385.0	385.6	386.0	386.3	386.7	387.0	387.4	387.6	387.9
152.5°	393.6	394.2	394.7	395.2	395.7	396.1	396.5	396.9	397.4	397.7	398.0
155°	407.9	408.1	408.5	408.7	409.0	409.2	409.5	409.7	410.0	410.4	410.9
157.5°	420.3	420.4	420.6	420.8	420.9	421.0	421.2	421.4	421.5	422.1	422.7
160°	427.7	427.9	428.1	428.3	428.3	428.4	428.5	428.6	428.7	429.2	429.7
162.5°	434.5	434.5	434.5	434.5	434.6	434.7	434.8	434.9	435.0	435.5	436.1
165°	443.4	443.3	443.2	443.2	443.2	443.2	443.2	443.2	443.2	443.8	444.4
167.5°	450.9	450.6	450.4	450.1	450.0	450.0	450.0	450.0	450.0	450.6	451.2
170°	455.0	454.7	454.4	454.2	454.0	453.9	453.8	453.7	453.7	454.3	454.9
172.5°	457.8	457.5	457.3	457.0	456.8	456.8	456.7	456.6	456.5	457.1	457.7
175°	461.2	461.0	460.7	460.5	460.2	460.0	459.9	459.7	459.5	460.1	460.7
177.5°	462.7	462.4	462.3	462.0	461.8	461.8	461.6	461.4	461.3	461.8	462.2
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3	462.3



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

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°	5.3	5.3	5.3	5.3	5.3	5.3	5.2
90°	13.2	13.0	12.9	13.0	13.1	13.2	13.3
92.5°	12.5	12.6	12.6	12.6	12.6	12.7	12.7
95°	25.0	25.0	24.9	24.7	24.5	24.4	24.2
97.5°	41.9	41.9	41.9	41.9	41.9	41.9	41.9
100°	53.8	53.8	53.8	53.7	53.6	53.6	53.5
102.5°	66.8	66.9	66.9	66.8	66.7	66.6	66.6
105°	86.4	86.5	86.6	86.6	86.6	86.6	86.6
107.5°	107.2	107.3	107.1	106.7	106.2	105.9	105.5
110°	121.3	121.3	121.1	120.9	120.6	120.4	120.1



TEST NUMBER: P331766-935

CATALOG NUMBER: S122RDIW-S290D435U935-4F0-1E-UDD-A1

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	135.3	135.2	134.9	134.7	134.6	134.4	134.2
115°	157.3	157.2	157.0	156.8	156.5	156.3	156.0
117.5°	178.3	178.1	177.9	177.6	177.4	177.1	176.8
120°	192.7	192.7	192.6	192.3	192.1	191.8	191.6
122.5°	207.1	206.8	206.6	206.5	206.3	206.0	205.9
125°	228.6	228.3	228.2	228.1	228.0	227.9	227.8
127.5°	249.5	249.2	248.9	248.6	248.3	248.1	247.8
130°	264.0	263.8	263.6	263.2	262.9	262.5	262.2
132.5°	277.7	277.3	277.0	276.7	276.4	276.1	275.9
135°	298.5	298.4	298.3	298.0	297.7	297.5	297.2
137.5°	318.2	318.2	318.0	317.6	317.3	316.9	316.6
140°	331.6	331.6	331.4	331.1	330.7	330.4	330.0
142.5°	343.6	343.7	343.5	343.2	342.9	342.5	342.2
145°	361.9	362.0	361.8	361.4	361.1	360.8	360.4
147.5°	378.0	378.2	378.1	377.7	377.4	377.0	376.8
150°	388.1	388.4	388.4	388.1	387.9	387.6	387.4
152.5°	398.3	398.6	398.6	398.3	398.0	397.7	397.4
155°	411.3	411.7	411.8	411.6	411.3	411.0	410.8
157.5°	423.3	423.9	424.0	423.5	423.1	422.8	422.3
160°	430.2	430.8	430.8	430.5	430.2	429.8	429.5
162.5°	436.7	437.3	437.4	437.0	436.5	436.1	435.8
165°	445.0	445.6	445.7	445.2	444.8	444.4	443.9
167.5°	451.8	452.4	452.5	451.9	451.5	451.1	450.6
170°	455.5	456.1	456.2	455.6	455.1	454.6	454.1
172.5°	458.3	458.9	458.9	458.4	457.9	457.4	456.8
175°	461.3	461.9	462.0	461.5	461.0	460.5	459.9
177.5°	462.5	463.0	463.0	462.5	462.2	461.8	461.3
180°	462.3	462.3	462.3	462.3	462.3	462.3	462.3

(END OF REPORT)