

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: METALUX

Report Number: P237775

Luminaire Tested: **2VRVT2-LD5-4-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237775
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-4-DR100-W-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3797.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.56 / 1.56
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

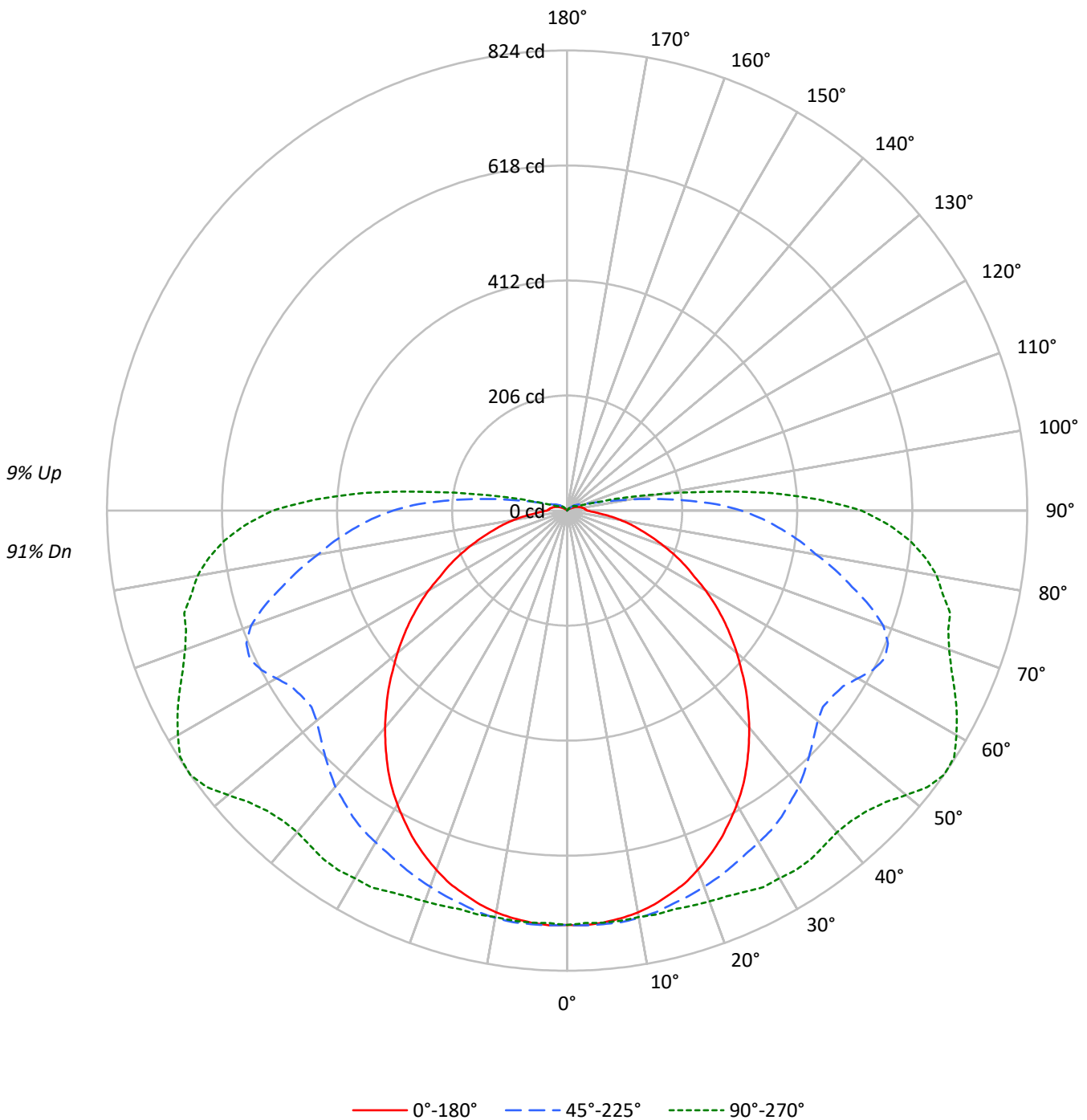
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91
1	102	95	89	83	98	92	86	81	86	81	77	80	76	73	75	72	69	66
2	90	80	71	64	87	77	69	62	72	65	59	67	62	57	63	58	54	51
3	81	68	59	51	78	66	57	50	62	54	48	58	51	46	54	48	44	41
4	74	60	49	42	71	58	48	41	54	46	39	50	43	38	47	41	36	33
5	67	53	42	35	64	51	41	34	48	39	33	45	38	32	42	36	31	28
6	62	47	37	30	59	46	36	29	43	35	28	40	33	27	38	31	27	24
7	57	42	33	26	55	41	32	26	39	31	25	36	29	24	34	28	23	21
8	53	38	29	23	51	37	29	23	35	27	22	33	26	21	31	25	21	18
9	50	35	26	20	48	34	26	20	32	25	19	31	24	19	29	23	18	16
10	46	32	24	18	45	31	23	18	30	23	18	28	22	17	27	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7667	7667	7667
5°	7629	7519	7464
10°	7561	7390	7326
15°	7450	7236	7259
20°	7316	7124	7304
25°	7142	7039	7432
30°	6933	7005	7607
35°	6693	7009	7789
40°	6411	6994	7925
45°	6126	6952	8332
50°	5824	6981	9116
55°	5536	7371	10062
60°	5200	8245	10546
65°	4871	9430	10919
70°	4535	10093	11481
75°	4209	10086	12630
80°	3946	10137	13837
85°	3549	10535	15189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	1.9
10°-20°	206.1	5.4
20°-30°	324.6	8.5
30°-40°	416.5	11.0
40°-50°	473.5	12.5
50°-60°	523.6	13.8
60°-70°	543.0	14.3
70°-80°	506.0	13.3
80°-90°	407.9	10.7
90°-100°	227.1	6.0
100°-110°	61.0	1.6
110°-120°	21.3	0.6
120°-130°	11.3	0.3
130°-140°	4.3	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	601.4	15.8
0°-40°	1017.9	26.8
0°-60°	2014.9	53.1
0°-90°	3471.8	91.4
90°-120°	309.3	8.1
90°-150°	325.3	8.6
90°-180°	325.0	8.6
0°-180°	3797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	741	742	743	745	741	70
15°	711	718	729	741	739	201
25°	650	666	702	742	753	299
35°	560	592	669	739	762	350
45°	453	500	615	717	760	349
55°	342	408	580	773	824	306
65°	233	330	627	742	766	231
75°	137	319	528	653	710	146
85°	57	224	386	555	616	56
90°	36	165	312	462	527	20
95°	32	109	210	313	363	25
105°	24	38	57	64	63	25
115°	14	18	26	22	18	14
125°	6	7	17	15	14	6
135°	3	1	6	8	8	2
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4	743.4
5°	740.6	742.0	742.0	742.0	742.0	742.0	743.4	743.4	743.4	744.8	743.4
7.5°	736.4	737.8	737.8	737.8	739.2	739.2	740.6	740.6	742.0	743.4	743.4
10°	730.8	732.2	732.2	733.6	733.6	735.0	735.0	737.8	737.8	739.2	740.6
12.5°	722.4	722.4	723.8	726.6	728.0	728.0	729.4	730.8	733.6	735.0	736.4
15°	711.3	711.3	714.1	716.8	718.2	718.2	719.6	721.0	726.6	728.0	729.4
17.5°	700.1	698.7	701.5	704.3	705.7	707.1	708.5	712.7	715.4	719.6	723.8
20°	684.7	684.7	687.5	691.7	694.5	695.9	698.7	702.9	708.5	712.7	716.8
22.5°	667.9	669.3	670.7	674.9	679.1	681.9	683.3	688.9	695.9	701.5	709.9
25°	649.8	651.2	654.0	658.2	663.7	666.5	669.3	676.3	686.1	691.7	701.5
27.5°	628.8	630.2	634.4	638.6	645.6	649.8	654.0	661.0	670.7	680.5	693.1
30°	607.9	609.2	613.4	620.4	627.4	631.6	637.2	647.0	659.6	670.7	686.1
32.5°	585.5	586.9	591.1	600.9	607.9	613.4	617.6	630.2	644.2	661.0	679.1
35°	560.3	561.7	567.3	575.7	586.9	592.5	598.1	610.6	630.2	649.8	669.3
37.5°	533.8	536.6	543.6	550.6	563.1	568.7	577.1	593.9	613.4	635.8	656.8
40°	507.2	510.0	517.0	526.8	539.4	547.8	556.1	577.1	598.1	621.8	645.6
42.5°	479.3	483.5	490.5	501.7	515.6	524.0	533.8	557.5	582.7	606.5	630.2
45°	452.7	455.5	463.9	476.5	490.5	500.3	512.8	538.0	563.1	589.7	614.8
47.5°	423.4	427.6	436.0	451.3	468.1	479.3	490.5	518.4	545.0	571.5	599.5
50°	396.8	399.6	409.4	423.4	443.0	455.5	468.1	496.1	525.4	554.8	585.5
52.5°	368.9	371.7	382.9	396.8	417.8	431.8	444.4	473.7	504.4	539.4	577.1
55°	342.4	345.1	356.3	370.3	394.1	408.0	422.0	454.1	489.1	529.6	579.9
57.5°	314.4	315.8	328.4	345.1	370.3	384.3	398.2	434.6	477.9	528.2	585.5
60°	286.5	289.3	300.4	320.0	347.9	363.3	380.1	420.6	473.7	535.2	600.9
62.5°	257.1	262.7	275.3	296.2	327.0	345.1	364.7	413.6	476.5	549.2	617.6
65°	233.4	237.6	250.1	275.3	308.8	329.8	353.5	415.0	489.1	564.5	627.4
67.5°	208.2	213.8	229.2	255.7	296.2	321.4	350.7	423.4	503.0	572.9	621.8
70°	183.1	188.6	208.2	240.3	286.5	317.2	352.1	431.8	505.8	561.7	602.3
72.5°	159.3	169.1	190.0	229.2	282.3	317.2	356.3	431.8	494.7	538.0	568.7
75°	136.9	146.7	174.7	219.4	280.9	318.6	353.5	419.2	466.7	503.0	528.2
77.5°	117.4	128.6	162.1	211.0	275.3	308.8	339.6	391.3	429.0	461.1	491.9
80°	96.4	110.4	148.1	201.2	258.5	286.5	310.2	353.5	388.5	420.6	452.7
82.5°	76.9	93.6	134.1	184.5	233.4	257.1	276.7	314.4	347.9	381.5	420.6
85°	57.3	76.9	116.0	162.1	202.6	223.6	241.7	276.7	308.8	346.5	385.7
87.5°	43.3	61.5	97.8	138.3	174.7	192.8	208.2	240.3	273.9	310.2	350.7
90°	36.3	50.3	82.4	116.0	149.5	164.9	178.9	211.0	241.7	273.9	311.6
92.5°	33.5	41.9	68.5	96.4	124.4	136.9	150.9	177.5	204.0	234.8	266.9
95°	32.1	36.3	54.5	76.9	99.2	109.0	120.2	139.7	160.7	185.8	209.6
97.5°	30.7	32.1	43.3	60.1	76.9	83.8	92.2	109.0	124.4	139.7	157.9
100°	27.9	29.3	34.9	46.1	58.7	65.7	69.9	81.0	92.2	102.0	113.2
102.5°	26.5	26.5	29.3	36.3	44.7	48.9	53.1	61.5	68.5	75.5	79.6
105°	23.8	23.8	25.2	29.3	34.9	37.7	40.5	46.1	50.3	54.5	57.3
107.5°	21.0	21.0	21.0	25.2	29.3	30.7	33.5	36.3	40.5	41.9	43.3
110°	18.2	18.2	18.2	21.0	23.8	25.2	27.9	30.7	33.5	33.5	34.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	16.8	15.4	15.4	16.8	21.0	22.4	23.8	26.5	27.9	29.3	29.3
115°	14.0	14.0	12.6	14.0	16.8	18.2	19.6	22.4	25.2	26.5	26.5
117.5°	11.2	11.2	11.2	11.2	14.0	15.4	16.8	19.6	22.4	23.8	23.8
120°	9.8	9.8	8.4	8.4	11.2	12.6	14.0	16.8	19.6	21.0	21.0
122.5°	7.0	7.0	7.0	7.0	8.4	9.8	11.2	14.0	16.8	18.2	18.2
125°	5.6	5.6	5.6	5.6	5.6	7.0	8.4	11.2	12.6	15.4	16.8
127.5°	5.6	4.2	4.2	4.2	4.2	4.2	5.6	8.4	11.2	12.6	14.0
130°	4.2	4.2	4.2	2.8	2.8	2.8	4.2	5.6	8.4	9.8	11.2
132.5°	2.8	2.8	2.8	2.8	2.8	1.4	2.8	4.2	5.6	7.0	8.4
135°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	4.2	4.2	5.6
137.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	1.4	1.4	2.8	4.2
140°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	1.4	1.4
142.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P237775

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0	742.0
2.5°	742.0	742.0	742.0	742.0	742.0	740.6	740.6	740.6	739.2	739.2
5°	744.8	744.8	744.8	744.8	744.8	743.4	743.4	742.0	742.0	740.6
7.5°	743.4	744.8	743.4	743.4	743.4	743.4	742.0	742.0	740.6	740.6
10°	740.6	742.0	742.0	743.4	743.4	743.4	742.0	742.0	739.2	739.2
12.5°	737.8	739.2	739.2	742.0	742.0	742.0	740.6	740.6	740.6	740.6
15°	732.2	735.0	739.2	740.6	740.6	740.6	739.2	739.2	739.2	739.2
17.5°	726.6	729.4	733.6	736.4	737.8	739.2	739.2	740.6	742.0	742.0
20°	721.0	726.6	730.8	735.0	736.4	737.8	740.6	743.4	744.8	744.8
22.5°	716.8	723.8	729.4	735.0	737.8	739.2	742.0	747.6	749.0	747.6
25°	711.3	722.4	729.4	739.2	742.0	744.8	747.6	751.8	753.2	753.2
27.5°	707.1	718.2	728.0	736.4	742.0	746.2	751.8	756.0	758.8	760.2
30°	700.1	715.4	728.0	739.2	743.4	747.6	756.0	760.2	761.6	760.2
32.5°	695.9	711.3	725.2	736.4	740.6	746.2	756.0	761.6	764.4	763.0
35°	687.5	705.7	721.0	735.0	739.2	744.8	753.2	760.2	761.6	761.6
37.5°	676.3	695.9	712.7	728.0	732.2	737.8	746.2	753.2	756.0	756.0
40°	666.5	684.7	702.9	718.2	723.8	729.4	739.2	749.0	753.2	751.8
42.5°	652.6	673.5	693.1	711.3	718.2	723.8	736.4	747.6	751.8	753.2
45°	638.6	662.3	684.7	705.7	716.8	725.2	740.6	754.6	761.6	760.2
47.5°	626.0	655.4	684.7	711.3	725.2	733.6	751.8	764.4	769.9	772.7
50°	619.0	656.8	691.7	719.6	733.6	744.8	765.8	779.7	788.1	792.3
52.5°	620.4	662.3	701.5	736.4	750.4	764.4	786.7	803.5	809.1	813.3
55°	628.8	676.3	719.6	757.4	772.7	785.3	804.9	814.7	823.0	824.4
57.5°	642.8	695.9	737.8	769.9	781.1	790.9	807.7	816.1	820.2	821.6
60°	662.3	709.9	743.4	771.3	778.3	786.7	797.9	803.5	803.5	804.9
62.5°	673.5	714.1	740.6	754.6	763.0	768.5	778.3	783.9	788.1	786.7
65°	670.7	702.9	721.0	737.8	742.0	747.6	753.2	763.0	763.0	765.8
67.5°	655.4	681.9	695.9	709.9	715.4	723.8	732.2	740.6	742.0	744.8
70°	628.8	649.8	665.1	681.9	687.5	695.9	708.5	721.0	725.2	728.0
72.5°	592.5	613.4	635.8	658.2	667.9	677.7	694.5	705.7	712.7	715.4
75°	554.8	581.3	610.6	638.6	652.6	665.1	680.5	698.7	702.9	709.9
77.5°	522.6	554.8	591.1	620.4	634.4	647.0	666.5	679.1	687.5	688.9
80°	490.5	525.4	563.1	596.7	612.0	624.6	647.0	661.0	672.1	672.1
82.5°	458.3	500.3	539.4	571.5	588.3	599.5	624.6	635.8	648.4	647.0
85°	426.2	469.5	507.2	539.4	554.8	568.7	591.1	606.5	616.2	616.2
87.5°	391.3	427.6	466.7	501.7	512.8	526.8	547.8	564.5	570.1	575.7
90°	349.3	384.3	422.0	449.9	462.5	476.5	497.5	512.8	521.2	526.8
92.5°	300.4	332.6	361.9	385.7	398.2	412.2	429.0	445.8	449.9	451.3
95°	236.2	259.9	286.5	308.8	313.0	327.0	341.0	356.3	363.3	363.3
97.5°	176.1	191.4	209.6	220.8	227.8	233.4	243.1	252.9	254.3	257.1
100°	124.4	132.7	142.5	150.9	153.7	157.9	163.5	169.1	169.1	169.1
102.5°	86.6	92.2	96.4	100.6	100.6	102.0	103.4	106.2	106.2	107.6
105°	60.1	62.9	62.9	62.9	64.3	64.3	62.9	64.3	65.7	62.9
107.5°	44.7	44.7	43.3	41.9	43.3	41.9	40.5	40.5	39.1	39.1
110°	34.9	33.5	32.1	32.1	30.7	30.7	29.3	27.9	26.5	27.9



TEST NUMBER: P237775

CATALOG NUMBER: 2VRVT2-LD5-4-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	29.3	27.9	26.5	25.2	25.2	23.8	23.8	22.4	21.0	21.0
115°	26.5	25.2	23.8	22.4	22.4	22.4	21.0	19.6	19.6	18.2
117.5°	23.8	23.8	22.4	21.0	21.0	19.6	19.6	18.2	18.2	16.8
120°	21.0	21.0	21.0	19.6	19.6	18.2	18.2	16.8	16.8	16.8
122.5°	19.6	19.6	18.2	18.2	18.2	16.8	16.8	15.4	15.4	15.4
125°	16.8	16.8	16.8	16.8	15.4	15.4	15.4	14.0	14.0	14.0
127.5°	14.0	14.0	15.4	14.0	14.0	14.0	14.0	14.0	12.6	12.6
130°	11.2	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.2	11.2
132.5°	9.8	9.8	9.8	11.2	11.2	11.2	11.2	9.8	9.8	9.8
135°	7.0	7.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
137.5°	4.2	5.6	5.6	7.0	7.0	7.0	7.0	7.0	7.0	5.6
140°	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
142.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)