

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: P237724

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-2-DR100-UNV-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.31
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

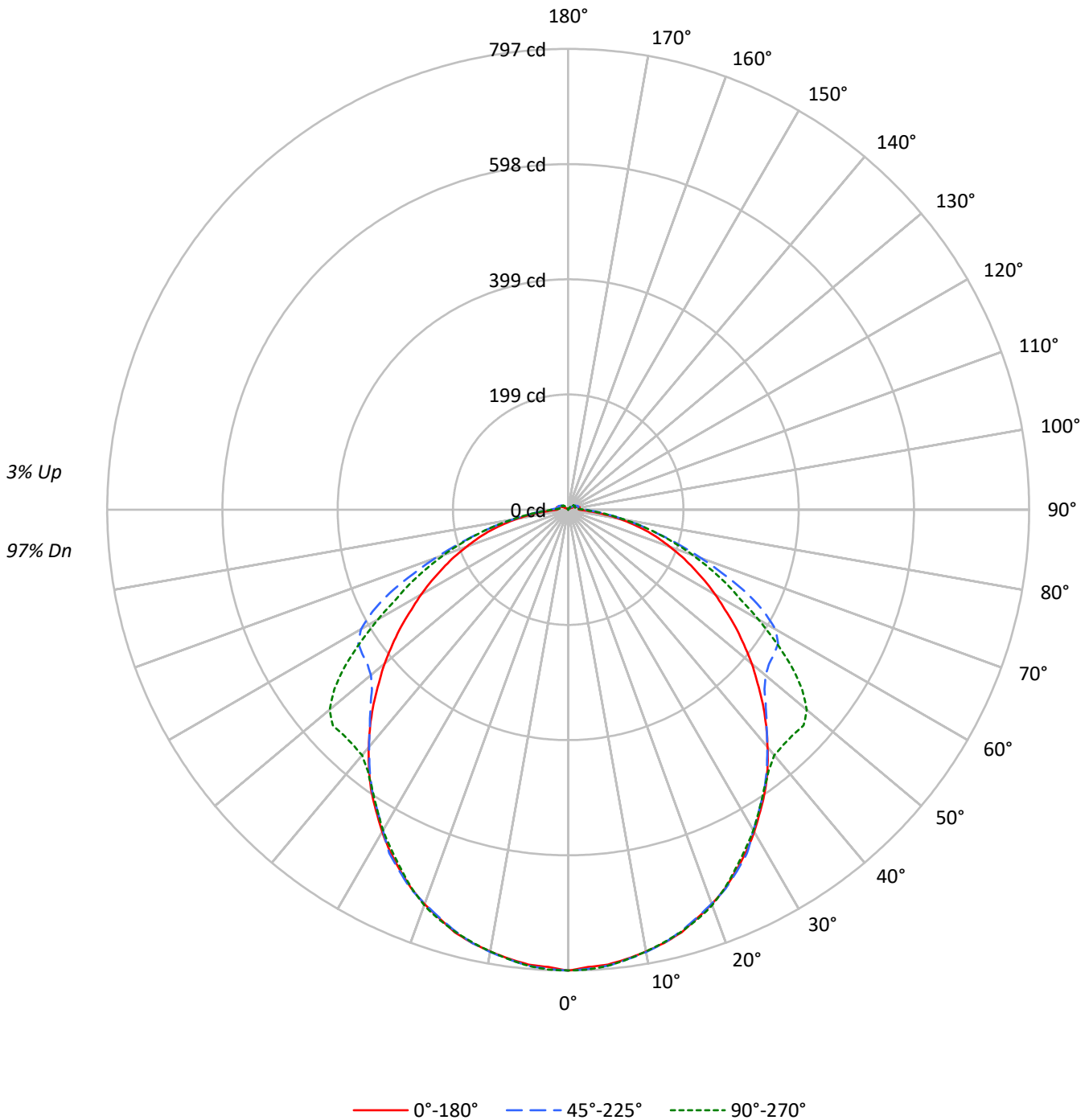
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237724

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

Luminous Intensity Polar Plot





TEST NUMBER: P237724

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

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	87	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	75	71	76	72	69	66
3	89	78	70	63	86	76	68	62	73	66	61	69	64	59	67	62	58	55
4	81	69	60	53	79	67	59	53	64	57	51	62	55	50	59	54	49	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	47	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	35
7	64	50	41	35	62	49	41	35	47	40	34	46	39	34	44	38	33	31
8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	37	31	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8236	8236	8236
5°	8133	8007	7979
10°	8027	7752	7688
15°	7926	7486	7422
20°	7758	7206	7140
25°	7561	6924	6756
30°	7337	6536	6406
35°	7090	6193	6038
40°	6779	5798	5843
45°	6439	5465	6029
50°	6082	5308	6194
55°	5706	5524	5744
60°	5329	5672	4971
65°	4978	5113	4292
70°	4619	4085	3610
75°	4267	3076	2866
80°	3602	2183	2030
85°	2626	1448	1279



TEST NUMBER: P237724

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.2
10°-20°	212.8	9.1
20°-30°	316.5	13.6
30°-40°	370.1	15.9
40°-50°	386.7	16.6
50°-60°	374.5	16.1
60°-70°	292.6	12.5
70°-80°	172.9	7.4
80°-90°	63.4	2.7
90°-100°	23.4	1.0
100°-110°	17.5	0.8
110°-120°	13.5	0.6
120°-130°	8.5	0.4
130°-140°	4.2	0.2
140°-150°	1.3	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	604.4	25.9
0°-40°	974.4	41.8
0°-60°	1735.6	74.4
0°-90°	2264.6	97.1
90°-120°	54.4	2.3
90°-150°	68.4	2.9
90°-180°	68.0	2.9
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	790	790	792	793	792	75
15°	757	755	755	752	756	213
25°	688	685	690	689	685	317
35°	594	590	591	592	590	370
45°	476	475	483	527	550	367
55°	353	355	435	483	471	315
65°	238	269	340	301	301	237
75°	139	184	161	159	161	146
85°	42	59	53	54	52	44
90°	19	32	31	29	28	11
95°	19	22	21	19	17	16
105°	18	18	18	15	13	19
115°	11	13	16	14	13	11
125°	5	5	12	13	12	5
135°	2	2	5	8	10	2
145°	1	1	1	3	4	1
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



TEST NUMBER: P237724

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	791.7	791.7	791.7	791.7	792.8	792.8	792.8	793.9	793.9	793.9	794.9
5°	789.6	789.6	789.6	789.6	789.6	789.6	789.6	789.6	789.6	790.7	791.7
7.5°	783.3	783.3	784.3	784.3	784.3	784.3	784.3	784.3	785.4	784.3	784.3
10°	775.8	776.9	775.8	774.8	775.8	775.8	775.8	776.9	776.9	776.9	776.9
12.5°	767.4	766.3	765.2	766.3	767.4	767.4	766.3	767.4	766.3	767.4	767.4
15°	756.8	756.8	755.7	754.6	754.6	754.6	753.6	754.6	752.5	752.5	754.6
17.5°	740.9	743.0	743.0	741.9	740.9	740.9	740.9	738.7	739.8	739.8	739.8
20°	726.0	726.0	725.0	725.0	725.0	725.0	725.0	723.9	722.8	723.9	725.0
22.5°	709.1	706.9	709.1	706.9	705.9	705.9	703.8	705.9	708.0	706.9	710.1
25°	687.9	688.9	688.9	686.8	684.7	684.7	685.7	685.7	687.9	690.0	690.0
27.5°	666.7	665.6	666.7	665.6	663.5	663.5	663.5	665.6	667.7	667.7	669.8
30°	643.3	644.4	642.3	642.3	641.2	641.2	641.2	642.3	644.4	643.3	640.2
32.5°	617.9	616.9	616.9	616.9	616.9	616.9	616.9	619.0	619.0	617.9	614.7
35°	593.5	592.5	590.4	589.3	590.4	590.4	591.4	591.4	590.4	590.4	591.4
37.5°	566.0	563.9	562.8	561.7	563.9	563.9	562.8	562.8	561.7	561.7	563.9
40°	536.3	535.2	533.1	534.2	534.2	534.2	534.2	535.2	534.2	534.2	535.2
42.5°	506.6	504.5	504.5	504.5	504.5	505.6	504.5	504.5	504.5	505.6	507.7
45°	475.9	474.8	473.8	473.8	475.9	474.8	474.8	474.8	476.9	476.9	483.3
47.5°	444.1	443.0	442.0	443.0	444.1	445.2	445.2	444.1	447.3	452.6	460.0
50°	414.4	413.4	412.3	413.4	413.4	413.4	413.4	417.6	419.7	429.3	445.2
52.5°	382.6	382.6	382.6	382.6	383.7	383.7	384.7	389.0	398.5	414.4	437.7
55°	352.9	352.9	350.8	352.9	355.1	355.1	359.3	366.7	381.6	405.9	434.6
57.5°	321.1	322.2	322.2	323.3	326.4	329.6	332.8	346.6	369.9	400.6	430.3
60°	293.6	294.6	293.6	297.8	302.1	306.3	312.7	333.9	362.5	394.3	413.4
62.5°	266.0	266.0	266.0	271.3	278.7	285.1	294.6	322.2	354.0	375.2	381.6
65°	238.5	238.5	241.7	245.9	258.6	269.2	280.9	311.6	337.0	345.5	340.2
67.5°	213.0	213.0	217.3	225.8	240.6	252.3	267.1	294.6	306.3	304.2	290.4
70°	186.5	187.6	194.0	204.6	223.6	236.4	249.1	263.9	265.0	256.5	243.8
72.5°	163.2	164.3	169.6	183.4	203.5	214.1	222.6	226.8	219.4	208.8	200.3
75°	138.8	139.9	147.3	161.1	179.1	184.4	187.6	186.5	180.2	168.5	161.1
77.5°	113.4	116.6	124.0	136.7	148.4	151.6	151.6	147.3	141.0	132.5	128.2
80°	88.0	91.2	98.6	109.2	114.5	116.6	115.5	112.3	106.0	99.6	97.5
82.5°	63.6	66.8	74.2	81.6	84.8	84.8	83.7	80.6	77.4	74.2	73.1
85°	42.4	45.6	50.9	56.2	59.4	59.4	59.4	58.3	56.2	55.1	53.0
87.5°	25.4	28.6	33.9	38.2	40.3	41.3	41.3	41.3	40.3	40.3	39.2
90°	19.1	21.2	24.4	27.6	30.7	31.8	31.8	31.8	31.8	30.7	30.7
92.5°	18.0	19.1	21.2	23.3	25.4	25.4	26.5	26.5	26.5	25.4	25.4
95°	19.1	19.1	20.1	21.2	22.3	22.3	23.3	23.3	23.3	22.3	21.2
97.5°	20.1	20.1	20.1	20.1	20.1	21.2	21.2	21.2	21.2	20.1	20.1
100°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	19.1	19.1
102.5°	20.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	18.0
105°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	19.1	19.1	18.0	18.0
107.5°	17.0	17.0	15.9	17.0	17.0	17.0	18.0	18.0	18.0	18.0	18.0
110°	14.8	14.8	13.8	14.8	15.9	15.9	15.9	17.0	18.0	18.0	18.0



TEST NUMBER: P237724

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	12.7	12.7	12.7	12.7	13.8	14.8	14.8	15.9	17.0	17.0	17.0
115°	10.6	10.6	10.6	10.6	11.7	12.7	13.8	14.8	15.9	15.9	15.9
117.5°	9.5	8.5	8.5	8.5	9.5	10.6	11.7	12.7	13.8	14.8	14.8
120°	7.4	7.4	7.4	7.4	8.5	8.5	9.5	11.7	12.7	13.8	13.8
122.5°	6.4	6.4	5.3	5.3	6.4	7.4	8.5	9.5	10.6	11.7	12.7
125°	5.3	5.3	4.2	4.2	5.3	5.3	6.4	7.4	9.5	10.6	11.7
127.5°	4.2	4.2	4.2	3.2	3.2	4.2	5.3	6.4	7.4	8.5	9.5
130°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	5.3	6.4	7.4	8.5
132.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	5.3	5.3	6.4
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3
137.5°	2.1	2.1	2.1	2.1	2.1	1.1	1.1	2.1	2.1	3.2	4.2
140°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	3.2
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	1.1
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: P237724

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	794.9	796.0	796.0	797.0	797.0	796.0	796.0	796.0	796.0	796.0
5°	792.8	792.8	793.9	793.9	792.8	792.8	791.7	791.7	792.8	791.7
7.5°	784.3	784.3	784.3	785.4	785.4	786.4	785.4	785.4	784.3	784.3
10°	775.8	774.8	774.8	773.7	774.8	774.8	775.8	775.8	775.8	775.8
12.5°	767.4	767.4	766.3	765.2	765.2	765.2	764.2	765.2	765.2	766.3
15°	753.6	755.7	753.6	753.6	752.5	752.5	752.5	753.6	754.6	755.7
17.5°	741.9	743.0	744.0	744.0	744.0	744.0	744.0	743.0	743.0	743.0
20°	727.1	728.1	729.2	730.3	729.2	728.1	726.0	726.0	727.1	728.1
22.5°	710.1	709.1	711.2	713.3	710.1	708.0	706.9	706.9	704.8	708.0
25°	688.9	687.9	687.9	686.8	688.9	686.8	683.6	684.7	685.7	684.7
27.5°	668.8	665.6	664.5	665.6	665.6	664.5	665.6	662.4	664.5	662.4
30°	642.3	641.2	642.3	642.3	642.3	642.3	643.3	642.3	642.3	640.2
32.5°	616.9	616.9	617.9	619.0	620.0	617.9	616.9	617.9	616.9	614.7
35°	589.3	593.5	591.4	593.5	592.5	591.4	590.4	592.5	592.5	590.4
37.5°	562.8	564.9	566.0	567.0	566.0	568.1	568.1	569.2	569.2	569.2
40°	535.2	537.4	540.5	542.7	543.7	545.8	549.0	553.3	555.4	554.3
42.5°	509.8	516.2	519.3	526.8	531.0	535.2	542.7	546.9	551.1	551.1
45°	487.5	497.1	509.8	522.5	526.8	531.0	538.4	544.8	548.0	550.1
47.5°	472.7	489.7	504.5	518.3	525.7	532.1	540.5	549.0	549.0	552.2
50°	465.3	486.5	505.6	521.5	526.8	532.1	536.3	539.5	540.5	538.4
52.5°	463.2	487.5	504.5	509.8	513.0	515.1	513.0	514.0	513.0	509.8
55°	462.1	479.1	485.4	485.4	483.3	482.2	474.8	474.8	470.6	470.6
57.5°	448.3	455.8	451.5	445.2	440.9	437.7	432.4	428.2	425.0	425.0
60°	419.7	415.5	407.0	398.5	394.3	389.0	384.7	382.6	377.3	379.4
62.5°	379.4	366.7	357.2	348.7	344.5	341.3	337.0	334.9	334.9	336.0
65°	329.6	318.0	306.3	303.1	301.0	299.9	301.0	299.9	298.9	301.0
67.5°	279.8	270.3	265.0	262.9	261.8	262.9	263.9	265.0	263.9	263.9
70°	235.3	228.9	225.8	226.8	226.8	227.9	228.9	230.0	228.9	228.9
72.5°	192.9	189.7	190.8	191.8	191.8	192.9	194.0	194.0	194.0	194.0
75°	156.9	156.9	157.9	160.0	159.0	160.0	160.0	161.1	160.0	161.1
77.5°	125.1	127.2	127.2	128.2	129.3	129.3	129.3	128.2	128.2	128.2
80°	96.4	97.5	99.6	100.7	99.6	100.7	100.7	100.7	98.6	98.6
82.5°	73.1	75.3	75.3	75.3	75.3	74.2	74.2	73.1	73.1	73.1
85°	54.1	54.1	54.1	55.1	54.1	54.1	53.0	51.9	51.9	51.9
87.5°	39.2	40.3	39.2	39.2	39.2	39.2	38.2	38.2	37.1	37.1
90°	30.7	30.7	29.7	29.7	28.6	28.6	28.6	27.6	27.6	27.6
92.5°	24.4	24.4	23.3	23.3	23.3	22.3	22.3	21.2	21.2	21.2
95°	21.2	20.1	20.1	19.1	19.1	19.1	18.0	18.0	17.0	17.0
97.5°	19.1	18.0	18.0	17.0	17.0	15.9	15.9	15.9	14.8	14.8
100°	18.0	17.0	15.9	15.9	14.8	14.8	14.8	13.8	13.8	13.8
102.5°	17.0	17.0	15.9	14.8	14.8	14.8	13.8	13.8	12.7	12.7
105°	17.0	17.0	15.9	14.8	14.8	13.8	13.8	12.7	12.7	12.7
107.5°	17.0	17.0	15.9	14.8	14.8	13.8	13.8	12.7	12.7	12.7
110°	17.0	15.9	15.9	14.8	14.8	13.8	13.8	12.7	12.7	12.7



TEST NUMBER: P237724

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	17.0	15.9	15.9	14.8	14.8	13.8	13.8	12.7	12.7	12.7
115°	15.9	15.9	14.8	14.8	13.8	13.8	13.8	12.7	12.7	12.7
117.5°	14.8	14.8	14.8	13.8	13.8	13.8	13.8	12.7	12.7	12.7
120°	13.8	13.8	13.8	13.8	13.8	13.8	12.7	12.7	12.7	12.7
122.5°	12.7	13.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
125°	11.7	11.7	12.7	12.7	12.7	12.7	12.7	11.7	11.7	11.7
127.5°	10.6	10.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
130°	9.5	9.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
132.5°	7.4	8.5	8.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
135°	6.4	7.4	7.4	8.5	8.5	8.5	8.5	9.5	9.5	9.5
137.5°	5.3	5.3	6.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
140°	4.2	4.2	5.3	5.3	6.4	6.4	6.4	6.4	6.4	6.4
142.5°	3.2	3.2	4.2	4.2	4.2	5.3	5.3	5.3	5.3	5.3
145°	2.1	2.1	3.2	3.2	3.2	3.2	4.2	4.2	4.2	4.2
147.5°	1.1	1.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
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)