

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: P237772

Luminaire Tested: **2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237772
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-LD5-3-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: 2880.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

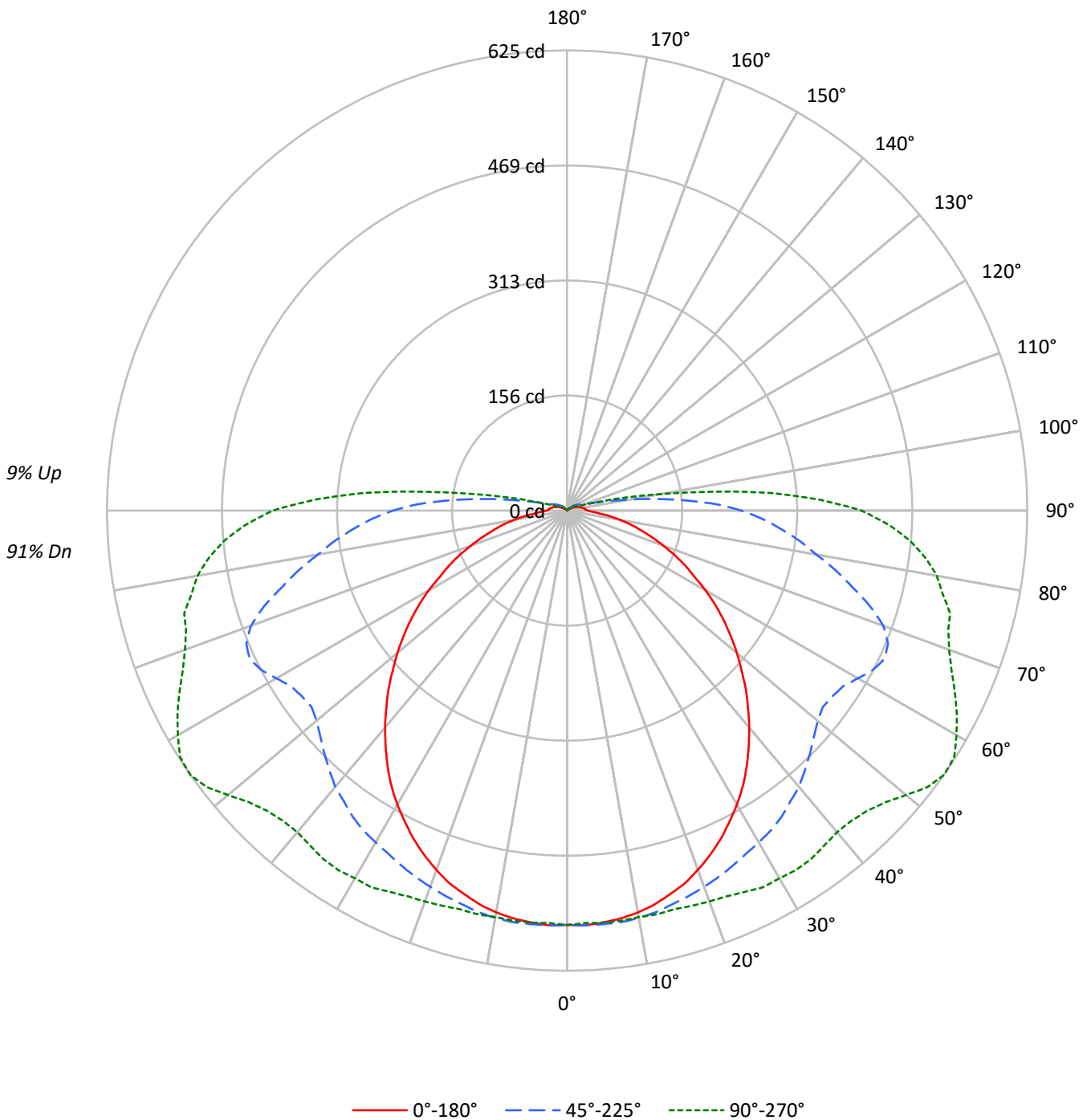
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

Luminous Intensity Polar Plot





TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-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	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°	5816	5816	5816
5°	5786	5703	5661
10°	5735	5605	5557
15°	5650	5489	5506
20°	5549	5404	5540
25°	5417	5339	5637
30°	5259	5313	5770
35°	5077	5316	5907
40°	4863	5305	6010
45°	4647	5274	6320
50°	4418	5295	6915
55°	4199	5591	7632
60°	3944	6254	7999
65°	3694	7153	8281
70°	3438	7655	8708
75°	3194	7650	9579
80°	2992	7689	10496
85°	2694	7989	11521



TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.9
10°-20°	156.3	5.4
20°-30°	246.2	8.5
30°-40°	315.9	11.0
40°-50°	359.1	12.5
50°-60°	397.1	13.8
60°-70°	411.8	14.3
70°-80°	383.8	13.3
80°-90°	309.4	10.7
90°-100°	172.2	6.0
100°-110°	46.3	1.6
110°-120°	16.1	0.6
120°-130°	8.5	0.3
130°-140°	3.2	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	456.2	15.8
0°-40°	772.0	26.8
0°-60°	1528.3	53.1
0°-90°	2633.3	91.4
90°-120°	234.6	8.1
90°-150°	246.7	8.6
90°-180°	247.0	8.6
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	563	563	563	563	563	
5°	562	563	564	565	562	53
15°	540	545	553	562	561	152
25°	493	506	532	563	571	227
35°	425	449	508	561	578	266
45°	343	379	466	544	577	265
55°	260	310	440	586	625	232
65°	177	250	476	563	581	175
75°	104	242	401	495	538	111
85°	44	170	292	421	467	42
90°	28	125	236	351	400	16
95°	24	83	159	237	276	19
105°	18	29	44	49	48	19
115°	11	14	20	17	14	11
125°	4	5	13	12	11	4
135°	2	1	4	6	6	1
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



TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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°	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9	563.9
5°	561.7	562.8	562.8	562.8	562.8	562.8	563.9	563.9	563.9	564.9	563.9
7.5°	558.6	559.6	559.6	559.6	560.7	560.7	561.7	561.7	562.8	563.9	563.9
10°	554.3	555.4	555.4	556.4	556.4	557.5	557.5	559.6	559.6	560.7	561.7
12.5°	548.0	548.0	549.0	551.1	552.2	552.2	553.3	554.3	556.4	557.5	558.6
15°	539.5	539.5	541.6	543.7	544.8	544.8	545.8	546.9	551.1	552.2	553.3
17.5°	531.0	529.9	532.1	534.2	535.2	536.3	537.4	540.5	542.7	545.8	549.0
20°	519.3	519.3	521.5	524.6	526.8	527.8	529.9	533.1	537.4	540.5	543.7
22.5°	506.6	507.7	508.7	511.9	515.1	517.2	518.3	522.5	527.8	532.1	538.4
25°	492.8	493.9	496.0	499.2	503.4	505.6	507.7	513.0	520.4	524.6	532.1
27.5°	476.9	478.0	481.2	484.4	489.7	492.8	496.0	501.3	508.7	516.2	525.7
30°	461.1	462.1	465.3	470.6	475.9	479.1	483.3	490.7	500.3	508.7	520.4
32.5°	444.1	445.2	448.3	455.8	461.1	465.3	468.5	478.0	488.6	501.3	515.1
35°	425.0	426.1	430.3	436.7	445.2	449.4	453.6	463.2	478.0	492.8	507.7
37.5°	404.9	407.0	412.3	417.6	427.1	431.4	437.7	450.5	465.3	482.2	498.1
40°	384.7	386.9	392.2	399.6	409.1	415.5	421.8	437.7	453.6	471.7	489.7
42.5°	363.5	366.7	372.0	380.5	391.1	397.5	404.9	422.9	442.0	460.0	478.0
45°	343.4	345.5	351.9	361.4	372.0	379.4	389.0	408.1	427.1	447.3	466.4
47.5°	321.1	324.3	330.7	342.3	355.1	363.5	372.0	393.2	413.4	433.5	454.7
50°	301.0	303.1	310.5	321.1	336.0	345.5	355.1	376.3	398.5	420.8	444.1
52.5°	279.8	281.9	290.4	301.0	316.9	327.5	337.0	359.3	382.6	409.1	437.7
55°	259.7	261.8	270.3	280.9	298.9	309.5	320.1	344.5	371.0	401.7	439.9
57.5°	238.5	239.5	249.1	261.8	280.9	291.5	302.1	329.6	362.5	400.6	444.1
60°	217.3	219.4	227.9	242.7	263.9	275.6	288.3	319.0	359.3	405.9	455.8
62.5°	195.0	199.3	208.8	224.7	248.0	261.8	276.6	313.7	361.4	416.5	468.5
65°	177.0	180.2	189.7	208.8	234.2	250.1	268.2	314.8	371.0	428.2	475.9
67.5°	157.9	162.2	173.8	194.0	224.7	243.8	266.0	321.1	381.6	434.6	471.7
70°	138.8	143.1	157.9	182.3	217.3	240.6	267.1	327.5	383.7	426.1	456.8
72.5°	120.8	128.2	144.1	173.8	214.1	240.6	270.3	327.5	375.2	408.1	431.4
75°	103.9	111.3	132.5	166.4	213.0	241.7	268.2	318.0	354.0	381.6	400.6
77.5°	89.0	97.5	122.9	160.0	208.8	234.2	257.6	296.8	325.4	349.8	373.1
80°	73.1	83.7	112.3	152.6	196.1	217.3	235.3	268.2	294.6	319.0	343.4
82.5°	58.3	71.0	101.7	139.9	177.0	195.0	209.9	238.5	263.9	289.3	319.0
85°	43.5	58.3	88.0	122.9	153.7	169.6	183.4	209.9	234.2	262.9	292.5
87.5°	32.9	46.6	74.2	104.9	132.5	146.3	157.9	182.3	207.7	235.3	266.0
90°	27.6	38.2	62.5	88.0	113.4	125.1	135.7	160.0	183.4	207.7	236.4
92.5°	25.4	31.8	51.9	73.1	94.3	103.9	114.5	134.6	154.7	178.1	202.4
95°	24.4	27.6	41.3	58.3	75.3	82.7	91.2	106.0	121.9	141.0	159.0
97.5°	23.3	24.4	32.9	45.6	58.3	63.6	70.0	82.7	94.3	106.0	119.8
100°	21.2	22.3	26.5	35.0	44.5	49.8	53.0	61.5	70.0	77.4	85.9
102.5°	20.1	20.1	22.3	27.6	33.9	37.1	40.3	46.6	51.9	57.2	60.4
105°	18.0	18.0	19.1	22.3	26.5	28.6	30.7	35.0	38.2	41.3	43.5
107.5°	15.9	15.9	15.9	19.1	22.3	23.3	25.4	27.6	30.7	31.8	32.9
110°	13.8	13.8	13.8	15.9	18.0	19.1	21.2	23.3	25.4	25.4	26.5



TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	12.7	11.7	11.7	12.7	15.9	17.0	18.0	20.1	21.2	22.3	22.3
115°	10.6	10.6	9.5	10.6	12.7	13.8	14.8	17.0	19.1	20.1	20.1
117.5°	8.5	8.5	8.5	8.5	10.6	11.7	12.7	14.8	17.0	18.0	18.0
120°	7.4	7.4	6.4	6.4	8.5	9.5	10.6	12.7	14.8	15.9	15.9
122.5°	5.3	5.3	5.3	5.3	6.4	7.4	8.5	10.6	12.7	13.8	13.8
125°	4.2	4.2	4.2	4.2	4.2	5.3	6.4	8.5	9.5	11.7	12.7
127.5°	4.2	3.2	3.2	3.2	3.2	3.2	4.2	6.4	8.5	9.5	10.6
130°	3.2	3.2	3.2	2.1	2.1	2.1	3.2	4.2	6.4	7.4	8.5
132.5°	2.1	2.1	2.1	2.1	2.1	1.1	2.1	3.2	4.2	5.3	6.4
135°	2.1	2.1	2.1	1.1	1.1	1.1	1.1	1.1	3.2	3.2	4.2
137.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	1.1	1.1	2.1	3.2
140°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	1.1	1.1
142.5°	1.1	1.1	1.1	1.1	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: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8	562.8
2.5°	562.8	562.8	562.8	562.8	562.8	561.7	561.7	561.7	560.7	560.7
5°	564.9	564.9	564.9	564.9	564.9	563.9	563.9	562.8	562.8	561.7
7.5°	563.9	564.9	563.9	563.9	563.9	563.9	562.8	562.8	561.7	561.7
10°	561.7	562.8	562.8	563.9	563.9	563.9	562.8	562.8	560.7	560.7
12.5°	559.6	560.7	560.7	562.8	562.8	562.8	561.7	561.7	561.7	561.7
15°	555.4	557.5	560.7	561.7	561.7	561.7	560.7	560.7	560.7	560.7
17.5°	551.1	553.3	556.4	558.6	559.6	560.7	560.7	561.7	562.8	562.8
20°	546.9	551.1	554.3	557.5	558.6	559.6	561.7	563.9	564.9	564.9
22.5°	543.7	549.0	553.3	557.5	559.6	560.7	562.8	567.0	568.1	567.0
25°	539.5	548.0	553.3	560.7	562.8	564.9	567.0	570.2	571.3	571.3
27.5°	536.3	544.8	552.2	558.6	562.8	566.0	570.2	573.4	575.5	576.6
30°	531.0	542.7	552.2	560.7	563.9	567.0	573.4	576.6	577.6	576.6
32.5°	527.8	539.5	550.1	558.6	561.7	566.0	573.4	577.6	579.8	578.7
35°	521.5	535.2	546.9	557.5	560.7	564.9	571.3	576.6	577.6	577.6
37.5°	513.0	527.8	540.5	552.2	555.4	559.6	566.0	571.3	573.4	573.4
40°	505.6	519.3	533.1	544.8	549.0	553.3	560.7	568.1	571.3	570.2
42.5°	495.0	510.9	525.7	539.5	544.8	549.0	558.6	567.0	570.2	571.3
45°	484.4	502.4	519.3	535.2	543.7	550.1	561.7	572.3	577.6	576.6
47.5°	474.8	497.1	519.3	539.5	550.1	556.4	570.2	579.8	584.0	586.1
50°	469.5	498.1	524.6	545.8	556.4	564.9	580.8	591.4	597.8	601.0
52.5°	470.6	502.4	532.1	558.6	569.2	579.8	596.7	609.4	613.7	616.9
55°	476.9	513.0	545.8	574.5	586.1	595.7	610.5	617.9	624.3	625.3
57.5°	487.5	527.8	559.6	584.0	592.5	599.9	612.6	619.0	622.2	623.2
60°	502.4	538.4	563.9	585.1	590.4	596.7	605.2	609.4	609.4	610.5
62.5°	510.9	541.6	561.7	572.3	578.7	582.9	590.4	594.6	597.8	596.7
65°	508.7	533.1	546.9	559.6	562.8	567.0	571.3	578.7	578.7	580.8
67.5°	497.1	517.2	527.8	538.4	542.7	549.0	555.4	561.7	562.8	564.9
70°	476.9	492.8	504.5	517.2	521.5	527.8	537.4	546.9	550.1	552.2
72.5°	449.4	465.3	482.2	499.2	506.6	514.0	526.8	535.2	540.5	542.7
75°	420.8	440.9	463.2	484.4	495.0	504.5	516.2	529.9	533.1	538.4
77.5°	396.4	420.8	448.3	470.6	481.2	490.7	505.6	515.1	521.5	522.5
80°	372.0	398.5	427.1	452.6	464.2	473.8	490.7	501.3	509.8	509.8
82.5°	347.6	379.4	409.1	433.5	446.2	454.7	473.8	482.2	491.8	490.7
85°	323.3	356.1	384.7	409.1	420.8	431.4	448.3	460.0	467.4	467.4
87.5°	296.8	324.3	354.0	380.5	389.0	399.6	415.5	428.2	432.4	436.7
90°	265.0	291.5	320.1	341.3	350.8	361.4	377.3	389.0	395.3	399.6
92.5°	227.9	252.3	274.5	292.5	302.1	312.7	325.4	338.1	341.3	342.3
95°	179.1	197.1	217.3	234.2	237.4	248.0	258.6	270.3	275.6	275.6
97.5°	133.5	145.2	159.0	167.5	172.8	177.0	184.4	191.8	192.9	195.0
100°	94.3	100.7	108.1	114.5	116.6	119.8	124.0	128.2	128.2	128.2
102.5°	65.7	70.0	73.1	76.3	76.3	77.4	78.4	80.6	80.6	81.6
105°	45.6	47.7	47.7	47.7	48.8	48.8	47.7	48.8	49.8	47.7
107.5°	33.9	33.9	32.9	31.8	32.9	31.8	30.7	30.7	29.7	29.7
110°	26.5	25.4	24.4	24.4	23.3	23.3	22.3	21.2	20.1	21.2



TEST NUMBER: P237772

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	22.3	21.2	20.1	19.1	19.1	18.0	18.0	17.0	15.9	15.9
115°	20.1	19.1	18.0	17.0	17.0	17.0	15.9	14.8	14.8	13.8
117.5°	18.0	18.0	17.0	15.9	15.9	14.8	14.8	13.8	13.8	12.7
120°	15.9	15.9	15.9	14.8	14.8	13.8	13.8	12.7	12.7	12.7
122.5°	14.8	14.8	13.8	13.8	13.8	12.7	12.7	11.7	11.7	11.7
125°	12.7	12.7	12.7	12.7	11.7	11.7	11.7	10.6	10.6	10.6
127.5°	10.6	10.6	11.7	10.6	10.6	10.6	10.6	10.6	9.5	9.5
130°	8.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	8.5	8.5
132.5°	7.4	7.4	7.4	8.5	8.5	8.5	8.5	7.4	7.4	7.4
135°	5.3	5.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
137.5°	3.2	4.2	4.2	5.3	5.3	5.3	5.3	5.3	5.3	4.2
140°	2.1	2.1	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
142.5°	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)