

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1212235

Luminaire Tested: 2VT3-LD5-3-W-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2VT3-LD5-3-W-UNV-L830-CD1-U
Description: 2FT VT3 WIDE APPLICATION, 3000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

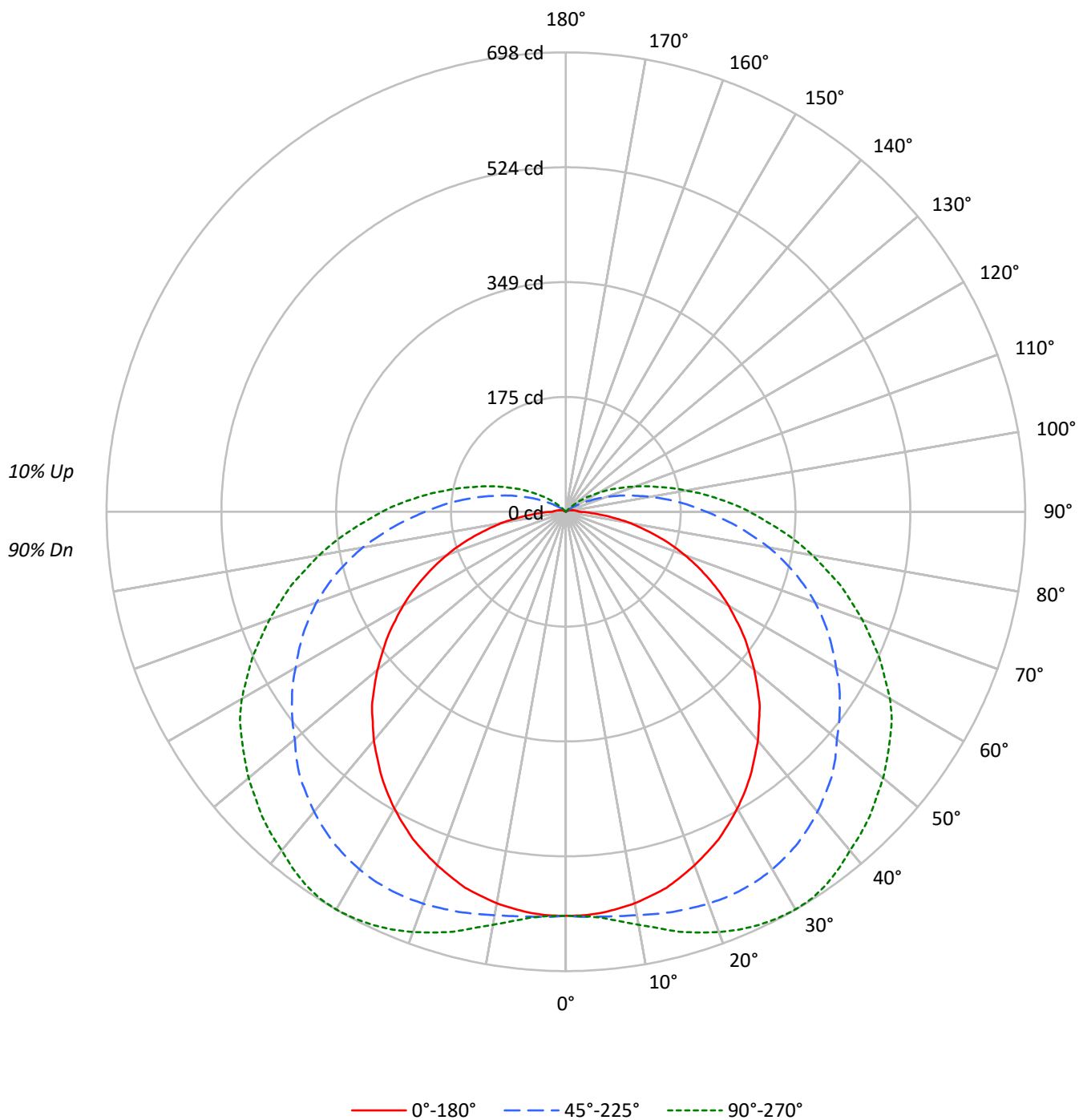
Lumens per Lamp: N/A
Luminaire Lumens: 3079.4 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.66 / 1.64
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 24.8
Input Voltage (V): NR
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: 24 FT

TEST NUMBER: P1212235

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93
1	103	96	91	86	99	93	88	83	87	83	79	81	78	75	76	73	71
2	92	82	74	67	88	79	72	65	74	68	62	69	64	59	64	60	56
3	83	71	61	54	79	68	60	53	64	56	50	60	53	48	56	50	46
4	75	62	52	44	72	60	51	44	56	48	42	52	46	40	49	43	39
5	69	55	45	38	66	53	44	37	50	42	35	46	40	34	44	38	33
6	63	49	39	32	61	47	38	32	44	37	31	42	35	29	39	33	28
7	59	44	35	28	56	43	34	28	40	32	27	38	31	26	36	30	25
8	54	40	31	25	52	39	30	24	37	29	24	35	28	23	33	27	22
9	51	36	28	22	49	35	27	22	34	26	21	32	25	20	30	24	20
10	47	33	25	20	46	33	25	19	31	24	19	29	23	18	28	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7930	7930	7930
5°	7876	7774	7753
10°	7809	7699	7807
15°	7736	7710	7977
20°	7627	7747	8153
25°	7533	7790	8323
30°	7413	7815	8455
35°	7289	7821	8509
40°	7153	7797	8480
45°	7025	7774	8525
50°	6829	7679	8565
55°	6653	7691	8618
60°	6445	7698	8680
65°	6195	7771	8650
70°	5912	7853	8624
75°	5501	7900	8651
80°	5021	7939	8662
85°	4175	7941	8737

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 9016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.9
10°-20°	177.7	5.8
20°-30°	289.6	9.4
30°-40°	377.1	12.2
40°-50°	426.0	13.8
50°-60°	436.4	14.2
60°-70°	408.0	13.2
70°-80°	343.4	11.2
80°-90°	253.1	8.2
90°-100°	162.5	5.3
100°-110°	89.9	2.9
110°-120°	41.5	1.3
120°-130°	13.7	0.4
130°-140°	1.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	526.4	17.1
0°-40°	903.5	29.3
0°-60°	1765.9	57.3
0°-90°	2770.3	90.0
90°-120°	293.9	9.5
90°-150°	309.1	10.0
90°-180°	309.0	10.0
0°-180°	3079.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	612	613	618	620	619	58
15°	591	602	629	653	660	167
25°	549	576	634	679	693	253
35°	489	531	615	674	691	306
45°	417	469	571	634	653	320
55°	331	394	508	581	601	295
65°	239	314	441	510	526	237
75°	144	235	360	417	432	153
85°	55	155	263	316	328	54
90°	20	115	214	264	279	13
95°	16	81	171	217	231	12
105°	9	27	96	136	145	10
115°	4	5	40	73	83	4
125°	1	1	8	30	37	1
135°	1	0	0	1	5	0
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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CATALOG NUMBER: 2VT3-LD5-3-W-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
2.5°	613.9	613.3	613.3	613.3	613.9	614.7	614.7	615.3	615.3	616.1	616.1
5°	611.9	611.1	611.9	611.9	612.5	613.3	613.9	614.7	615.3	616.8	617.5
7.5°	608.3	608.3	608.3	609.7	610.5	611.1	612.5	613.9	616.1	618.2	619.6
10°	604.1	604.1	604.8	605.5	607.6	609.1	610.5	613.3	616.1	619.6	622.4
12.5°	597.8	597.8	598.4	600.6	603.4	605.5	607.6	611.9	616.8	621.0	626.0
15°	591.4	590.7	592.1	595.6	599.2	602.0	604.8	610.5	616.1	622.4	629.4
17.5°	581.5	582.3	584.3	588.6	593.6	597.0	600.6	607.6	616.1	623.2	631.6
20°	571.7	572.4	575.2	579.5	586.5	590.7	595.6	604.1	613.9	623.8	633.7
22.5°	560.4	561.1	564.6	571.0	579.5	583.7	589.3	599.8	611.1	622.4	634.4
25°	549.1	549.8	554.0	560.4	570.2	575.9	581.5	595.0	607.6	621.0	633.7
27.5°	535.0	537.1	542.1	549.8	560.4	566.0	573.8	587.9	602.0	616.8	631.6
30°	520.9	522.3	527.2	537.1	549.1	556.2	563.2	578.7	595.6	611.1	627.4
32.5°	505.4	507.5	513.9	523.0	537.8	544.9	551.9	569.6	587.2	604.8	621.7
35°	489.2	491.3	497.0	508.9	523.7	530.8	539.9	558.3	577.3	596.4	614.7
37.5°	470.8	473.7	481.5	493.4	508.2	517.3	527.2	546.3	566.8	586.5	605.5
40°	453.9	455.3	463.1	475.8	492.0	501.8	511.7	533.6	554.0	575.2	595.0
42.5°	434.2	437.8	446.2	459.6	476.5	485.7	496.2	518.8	541.3	561.8	582.9
45°	416.6	418.0	427.1	442.0	459.6	469.4	480.7	502.6	525.1	548.4	571.0
47.5°	394.7	396.9	406.8	422.3	441.2	451.9	462.4	487.1	510.3	534.3	555.4
50°	373.6	377.1	387.0	403.2	422.9	433.5	445.5	468.8	494.1	515.9	537.8
52.5°	351.7	355.9	366.5	382.8	403.2	415.2	426.5	451.1	475.1	499.8	523.7
55°	330.6	334.1	344.0	361.6	384.2	394.1	406.0	432.1	456.7	483.5	508.2
57.5°	307.3	312.2	324.3	341.8	363.7	375.0	387.7	412.4	440.6	468.0	492.7
60°	285.5	289.0	303.1	320.7	342.6	353.9	366.5	394.1	422.9	450.5	474.4
62.5°	262.9	267.1	280.6	298.9	321.4	334.1	346.8	375.0	405.4	432.1	457.5
65°	238.9	244.6	259.4	277.0	301.7	313.6	327.7	357.3	386.3	414.5	440.6
67.5°	215.7	220.6	236.9	255.9	278.4	293.9	308.0	339.0	369.4	397.5	422.3
70°	192.4	197.4	212.2	234.1	258.7	274.2	288.3	319.3	350.3	377.1	403.2
72.5°	169.1	174.1	190.3	211.5	238.9	253.0	269.3	301.0	330.6	358.7	382.0
75°	144.5	153.0	167.7	191.8	219.2	234.7	250.2	282.0	310.8	337.6	360.2
77.5°	120.6	129.7	146.6	171.3	199.5	216.4	231.9	262.2	291.1	315.0	336.9
80°	99.4	107.1	125.4	149.4	180.4	195.3	210.8	241.1	268.5	293.3	313.6
82.5°	76.1	85.3	103.6	130.4	160.0	175.5	191.0	218.6	245.3	267.9	287.6
85°	55.0	64.2	84.6	112.1	139.5	155.0	169.1	197.4	222.0	244.6	262.9
87.5°	36.0	45.1	66.2	93.8	120.6	134.6	147.3	173.4	198.1	220.0	237.5
90°	20.5	31.0	51.5	76.1	102.2	114.9	128.3	153.0	175.5	196.0	213.6
92.5°	18.3	21.9	38.8	62.0	85.3	98.7	109.9	133.2	155.8	174.8	192.4
95°	16.3	16.9	27.5	47.9	70.5	81.1	93.0	115.6	136.1	154.4	171.3
97.5°	14.1	14.1	19.1	34.6	55.0	66.2	76.9	97.2	117.7	135.3	150.2
100°	12.0	12.7	13.4	24.0	41.6	52.1	61.4	81.1	99.4	114.9	130.4
102.5°	10.6	10.6	11.3	16.3	29.6	38.8	47.3	65.6	81.7	97.2	111.3
105°	9.2	9.2	9.2	10.6	20.5	26.8	34.6	50.7	67.0	81.7	95.8
107.5°	7.8	7.8	7.8	8.5	13.4	19.1	24.7	38.1	52.9	67.0	79.7
110°	6.4	6.4	6.4	7.0	7.8	12.0	16.9	27.5	40.2	54.3	64.8

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	5.0	5.0	5.0	5.6	5.6	6.4	10.6	19.7	29.6	41.6	52.9
115°	4.2	4.2	4.2	4.2	5.0	5.0	5.0	12.0	21.1	31.0	40.2
117.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.2	7.0	14.1	22.6	30.4
120°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	7.8	14.8	21.9
122.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	8.5	14.8
125°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	8.5
127.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	2.1
130°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
132.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
135°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9	613.9
2.5°	616.8	616.8	616.8	616.1	616.1	616.1	615.3	615.3	614.7	614.7
5°	618.2	618.9	619.6	619.6	619.6	619.6	619.6	619.6	618.9	618.9
7.5°	621.7	623.2	623.8	625.2	625.2	626.0	626.6	626.6	626.6	627.4
10°	625.2	628.0	630.2	633.0	633.7	634.4	635.8	635.8	636.5	637.2
12.5°	630.2	634.4	638.7	642.1	642.9	644.3	645.7	647.8	647.8	647.8
15°	635.1	641.5	646.4	649.9	653.4	654.2	656.2	659.0	659.0	660.5
17.5°	640.1	647.1	654.8	659.8	662.6	664.7	666.8	668.3	671.1	670.3
20°	643.5	652.0	659.8	666.8	668.9	671.1	675.3	678.1	679.5	679.5
22.5°	644.9	655.6	664.0	671.7	674.5	677.4	681.6	685.2	686.6	687.2
25°	645.7	657.0	666.8	675.3	678.8	681.6	687.2	690.0	692.2	692.9
27.5°	644.9	657.0	668.3	677.4	680.9	684.4	690.0	693.6	696.4	696.4
30°	642.1	655.6	667.5	677.4	681.6	685.2	690.8	695.0	697.1	697.8
32.5°	637.2	652.0	664.7	674.5	679.5	683.0	689.4	693.6	695.7	696.4
35°	631.6	646.4	659.8	669.7	674.5	678.1	684.4	688.0	690.0	690.8
37.5°	623.2	638.7	652.0	662.6	666.8	670.3	675.3	680.2	681.6	682.3
40°	613.3	628.8	641.5	652.0	655.6	659.8	664.0	668.9	671.1	671.7
42.5°	601.3	616.1	629.4	640.1	643.5	648.5	654.8	659.0	661.9	663.3
45°	587.2	603.4	616.8	628.8	633.7	636.5	644.3	649.2	652.0	653.4
47.5°	573.1	590.7	604.8	616.8	621.7	626.6	633.7	637.9	640.7	640.7
50°	559.7	576.6	591.4	604.1	609.1	614.7	621.0	626.0	628.8	629.4
52.5°	545.5	563.2	578.1	590.7	595.6	600.6	607.6	612.5	615.3	615.3
55°	529.4	548.4	563.2	575.2	580.9	585.1	593.6	597.8	601.3	601.3
57.5°	513.1	532.2	547.7	560.4	566.8	570.2	578.7	582.9	586.5	587.2
60°	497.0	515.3	531.4	544.9	549.1	554.7	560.4	565.4	568.2	568.8
62.5°	480.0	498.4	514.5	525.1	531.4	534.3	541.3	544.1	547.0	546.3
65°	463.8	480.0	495.6	506.1	509.6	514.5	518.8	523.7	525.8	525.8
67.5°	444.1	460.3	474.4	484.9	489.9	492.7	497.6	500.4	504.0	501.8
70°	422.9	438.4	451.1	461.7	465.2	468.8	474.4	477.2	479.3	479.3
72.5°	401.1	415.9	428.6	437.8	441.2	445.5	449.7	452.5	453.9	454.7
75°	377.8	392.7	403.9	413.1	417.3	422.3	425.7	430.0	430.7	432.1
77.5°	355.9	369.4	380.0	390.5	392.7	396.1	400.4	403.9	405.4	404.6
80°	329.9	346.1	354.5	363.7	367.2	370.1	375.0	377.1	380.6	380.6
82.5°	303.8	317.9	327.7	338.4	342.6	344.0	350.3	353.9	354.5	355.3
85°	279.8	292.5	303.1	311.6	315.8	317.2	322.9	328.5	329.1	328.5
87.5°	253.0	266.5	277.8	285.5	289.0	292.5	297.5	300.3	303.1	302.4
90°	229.1	241.8	253.0	261.5	264.3	267.9	272.1	276.3	277.0	279.2
92.5°	205.9	219.2	230.5	238.3	242.5	243.9	248.8	252.4	253.8	255.9
95°	184.7	196.0	206.5	216.4	217.1	220.6	225.6	228.4	231.9	231.2
97.5°	163.5	176.2	185.4	192.4	196.0	199.5	203.7	206.5	208.7	208.7
100°	143.1	155.0	163.5	170.5	174.8	176.2	180.4	184.0	185.4	185.4
102.5°	124.8	134.6	143.1	151.6	153.6	155.8	160.0	164.2	164.2	165.7
105°	106.5	117.0	125.4	132.5	136.1	136.7	140.9	143.8	145.9	145.2
107.5°	90.2	100.1	109.3	114.9	117.7	119.8	124.0	126.2	128.3	129.0
110°	76.1	84.6	93.0	99.4	101.5	104.3	108.5	110.7	112.8	112.1

TEST NUMBER: P1212235

CATALOG NUMBER: 2VT3-LD5-3-W-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	62.0	71.2	78.3	84.6	87.4	89.5	93.8	95.2	97.2	97.2
115°	50.1	57.8	64.8	71.2	73.3	75.5	78.9	81.1	82.5	83.2
117.5°	38.1	46.5	53.6	59.2	60.6	63.4	67.0	68.4	69.8	71.2
120°	28.9	35.2	41.6	46.5	49.3	50.7	54.3	56.4	57.8	57.8
122.5°	21.1	26.8	32.4	36.6	38.8	40.2	43.7	45.9	46.5	46.5
125°	13.4	19.1	23.3	27.5	29.6	31.0	33.2	35.2	36.6	37.4
127.5°	7.8	12.0	16.3	19.7	21.1	22.6	25.4	26.8	28.2	28.2
130°	1.4	5.0	9.2	12.0	13.4	14.8	16.9	18.3	19.7	19.7
132.5°	0.0	0.0	2.8	5.6	6.4	7.8	9.9	11.3	12.0	12.0
135°	0.0	0.0	0.0	0.0	0.7	1.4	3.5	4.2	5.0	5.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	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
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)