

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: P1212232

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212232
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-LD5-2-W-UNV-L830-CD1-U
Description: 2FT VT3 WIDE APPLICATION, 2000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

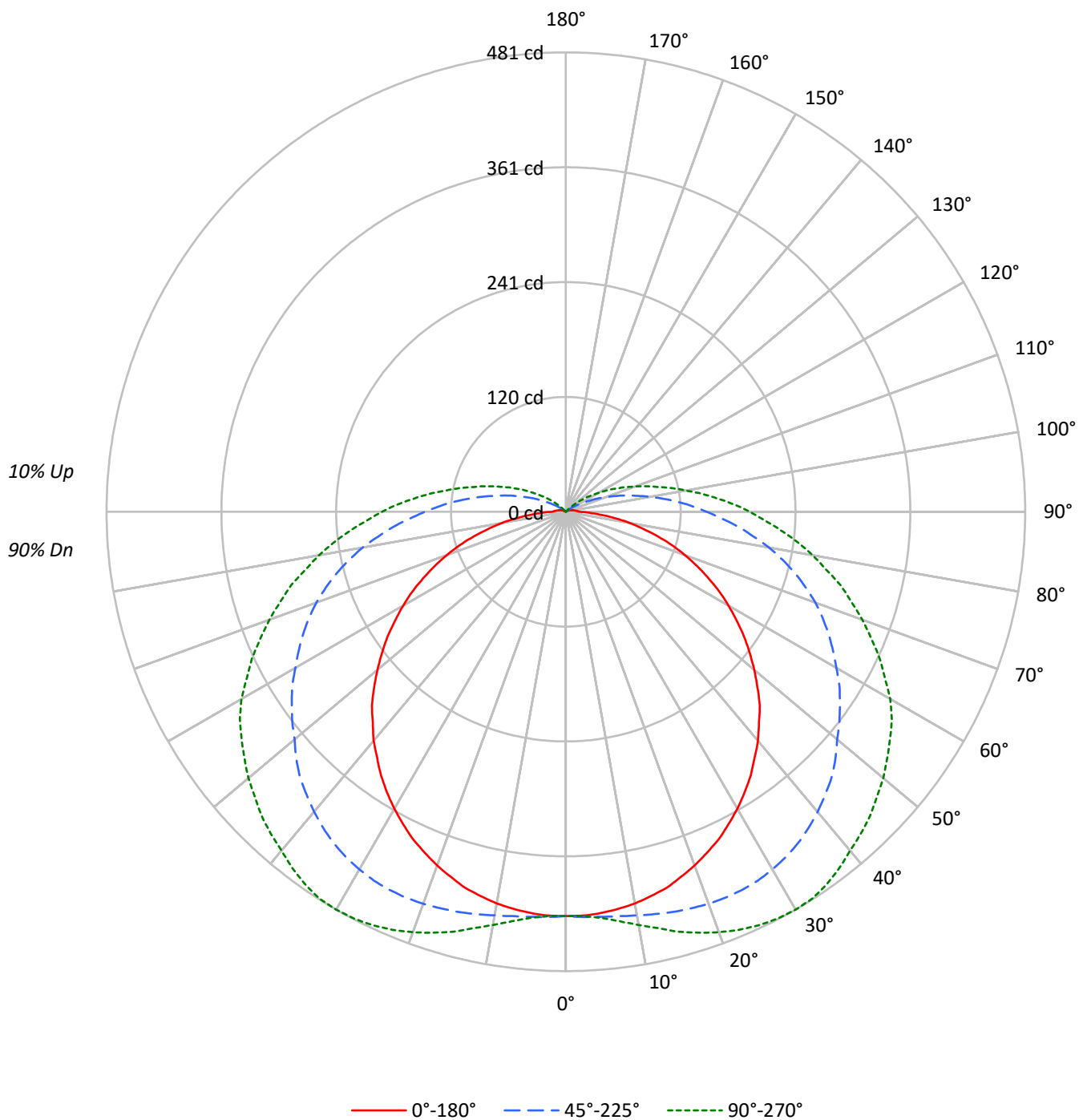
Lumens per Lamp: N/A
Luminaire Lumens: 2123.0 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.66 / 1.64
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 16.9
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: P1212232

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

Luminous Intensity Polar Plot



TEST NUMBER: P1212232

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

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°	5468	5468	5468
5°	5429	5359	5346
10°	5384	5308	5382
15°	5333	5315	5499
20°	5258	5340	5621
25°	5194	5370	5738
30°	5110	5388	5829
35°	5025	5392	5866
40°	4933	5374	5846
45°	4843	5359	5878
50°	4709	5295	5904
55°	4586	5301	5941
60°	4443	5308	5985
65°	4273	5356	5964
70°	4075	5415	5945
75°	3795	5448	5964
80°	3465	5473	5974
85°	2877	5476	6024

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 6213 cd/sqm

TEST NUMBER: P1212232

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	1.9
10°-20°	122.5	5.8
20°-30°	199.7	9.4
30°-40°	260.0	12.2
40°-50°	293.7	13.8
50°-60°	300.8	14.2
60°-70°	281.3	13.2
70°-80°	236.8	11.2
80°-90°	174.5	8.2
90°-100°	112.0	5.3
100°-110°	62.0	2.9
110°-120°	28.6	1.3
120°-130°	9.5	0.4
130°-140°	1.0	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°	362.9	17.1
0°-40°	622.9	29.3
0°-60°	1217.4	57.3
0°-90°	1909.9	90.0
90°-120°	202.6	9.5
90°-150°	213.1	10.0
90°-180°	213.0	10.0
0°-180°	2123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	422	423	426	427	427	40
15°	408	415	434	450	455	115
25°	379	397	437	468	478	174
35°	337	366	424	465	476	211
45°	287	324	394	437	450	221
55°	228	272	350	400	414	203
65°	165	216	304	351	362	163
75°	100	162	248	288	298	106
85°	38	107	181	218	226	37
90°	14	79	147	182	192	9
95°	11	56	118	150	159	9
105°	6	18	66	94	100	7
115°	3	3	28	50	57	3
125°	1	1	6	20	26	1
135°	0	0	0	0	3	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

TEST NUMBER: P1212232

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	423.3	422.8	422.8	422.8	423.3	423.8	423.8	424.2	424.2	424.7	424.7
5°	421.8	421.3	421.8	421.8	422.3	422.8	423.3	423.8	424.2	425.3	425.7
7.5°	419.4	419.4	419.4	420.4	420.9	421.3	422.3	423.3	424.7	426.2	427.1
10°	416.5	416.5	416.9	417.4	418.9	419.8	420.9	422.8	424.7	427.1	429.1
12.5°	412.1	412.1	412.5	414.0	416.0	417.4	418.9	421.8	425.3	428.1	431.5
15°	407.7	407.2	408.3	410.7	413.1	415.0	416.9	420.9	424.7	429.1	433.9
17.5°	400.9	401.4	402.8	405.7	409.2	411.6	414.0	418.9	424.7	429.5	435.4
20°	394.1	394.6	396.6	399.5	404.3	407.2	410.7	416.5	423.3	430.1	436.8
22.5°	386.3	386.9	389.3	393.6	399.5	402.4	406.3	413.6	421.3	429.1	437.4
25°	378.6	379.0	382.0	386.3	393.1	397.0	400.9	410.1	418.9	428.1	436.8
27.5°	368.8	370.3	373.7	379.0	386.3	390.2	395.5	405.3	415.0	425.3	435.4
30°	359.1	360.1	363.5	370.3	378.6	383.4	388.3	399.0	410.7	421.3	432.5
32.5°	348.5	349.9	354.3	360.6	370.8	375.7	380.5	392.7	404.8	416.9	428.6
35°	337.3	338.7	342.6	350.9	361.1	365.9	372.2	384.9	398.0	411.1	423.8
37.5°	324.7	326.5	331.9	340.2	350.3	356.7	363.5	376.6	390.7	404.3	417.4
40°	313.0	313.9	319.2	328.0	339.2	346.0	352.8	367.9	382.0	396.6	410.1
42.5°	299.3	301.8	307.6	316.8	328.5	334.8	342.1	357.6	373.2	387.3	401.9
45°	287.2	288.1	294.5	304.7	316.8	323.6	331.4	346.5	362.0	378.1	393.6
47.5°	272.2	273.6	280.4	291.1	304.2	311.5	318.8	335.8	351.8	368.4	382.9
50°	257.6	260.0	266.8	278.0	291.6	298.9	307.1	323.2	340.6	355.8	370.8
52.5°	242.5	245.5	252.7	263.9	278.0	286.3	294.0	311.0	327.6	344.6	361.1
55°	227.9	230.3	237.1	249.3	264.9	271.6	279.9	297.9	314.9	333.3	350.3
57.5°	211.9	215.3	223.5	235.6	250.8	258.5	267.3	284.3	303.7	322.7	339.7
60°	196.8	199.2	208.9	221.1	236.2	244.0	252.7	271.6	291.6	310.6	327.1
62.5°	181.3	184.2	193.4	206.0	221.6	230.3	239.1	258.5	279.5	297.9	315.4
65°	164.8	168.6	178.9	191.0	208.0	216.2	225.9	246.4	266.3	285.7	303.7
67.5°	148.7	152.1	163.3	176.4	191.9	202.7	212.4	233.8	254.6	274.0	291.1
70°	132.6	136.1	146.3	161.3	178.3	189.0	198.8	220.1	241.5	260.0	278.0
72.5°	116.7	120.0	131.2	145.8	164.8	174.5	185.7	207.5	227.9	247.3	263.4
75°	99.7	105.4	115.6	132.2	151.1	161.9	172.5	194.4	214.4	232.8	248.4
77.5°	83.1	89.4	101.1	118.1	137.5	149.2	159.9	180.8	200.7	217.2	232.3
80°	68.6	73.9	86.5	103.0	124.4	134.6	145.3	166.2	185.1	202.1	216.2
82.5°	52.5	58.8	71.5	89.9	110.3	121.0	131.7	150.7	169.1	184.7	198.3
85°	37.9	44.2	58.3	77.2	96.2	106.9	116.7	136.1	153.1	168.6	181.3
87.5°	24.8	31.1	45.7	64.6	83.1	92.8	101.5	119.6	136.6	151.6	163.7
90°	14.1	21.4	35.5	52.5	70.4	79.2	88.4	105.4	121.0	135.1	147.3
92.5°	12.6	15.0	26.7	42.8	58.8	68.0	75.8	91.8	107.4	120.5	132.6
95°	11.2	11.7	19.0	33.1	48.6	55.9	64.2	79.7	93.8	106.4	118.1
97.5°	9.7	9.7	13.1	23.8	37.9	45.7	53.0	67.1	81.2	93.3	103.5
100°	8.2	8.8	9.2	16.5	28.7	36.0	42.3	55.9	68.6	79.2	89.9
102.5°	7.3	7.3	7.8	11.2	20.5	26.7	32.6	45.2	56.4	67.1	76.8
105°	6.4	6.4	6.4	7.3	14.1	18.5	23.8	35.0	46.1	56.4	66.1
107.5°	5.3	5.3	5.3	5.8	9.2	13.1	17.0	26.2	36.4	46.1	54.9
110°	4.4	4.4	4.4	4.9	5.3	8.2	11.7	19.0	27.7	37.5	44.7

TEST NUMBER: P1212232

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	3.4	3.4	3.4	3.9	3.9	4.4	7.3	13.6	20.5	28.7	36.4
115°	2.9	2.9	2.9	2.9	3.4	3.4	3.4	8.2	14.6	21.4	27.7
117.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.9	4.9	9.7	15.5	20.9
120°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	5.3	10.2	15.0
122.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	5.8	10.2
125°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.5	5.8
127.5°	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	1.5
130°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
135°	0.5	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

TEST NUMBER: P1212232

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3	423.3
2.5°	425.3	425.3	425.3	424.7	424.7	424.7	424.2	424.2	423.8	423.8
5°	426.2	426.7	427.1	427.1	427.1	427.1	427.1	427.1	426.7	426.7
7.5°	428.6	429.5	430.1	431.0	431.0	431.5	432.0	432.0	432.0	432.5
10°	431.0	433.0	434.4	436.4	436.8	437.4	438.3	438.3	438.8	439.3
12.5°	434.4	437.4	440.3	442.7	443.2	444.2	445.1	446.6	446.6	446.6
15°	437.9	442.2	445.6	448.0	450.5	450.9	452.4	454.4	454.4	455.3
17.5°	441.2	446.1	451.5	454.9	456.8	458.2	459.7	460.6	462.6	462.1
20°	443.6	449.5	454.9	459.7	461.2	462.6	465.5	467.5	468.5	468.5
22.5°	444.7	452.0	457.8	463.1	465.0	467.0	469.9	472.3	473.4	473.8
25°	445.1	452.9	459.7	465.5	467.9	469.9	473.8	475.8	477.2	477.7
27.5°	444.7	452.9	460.6	467.0	469.4	471.9	475.8	478.2	480.2	480.2
30°	442.7	452.0	460.2	467.0	469.9	472.3	476.2	479.1	480.6	481.1
32.5°	439.3	449.5	458.2	465.0	468.5	470.9	475.3	478.2	479.6	480.2
35°	435.4	445.6	454.9	461.7	465.0	467.5	471.9	474.3	475.8	476.2
37.5°	429.5	440.3	449.5	456.8	459.7	462.1	465.5	469.0	469.9	470.4
40°	422.8	433.5	442.2	449.5	452.0	454.9	457.8	461.2	462.6	463.1
42.5°	414.5	424.7	433.9	441.2	443.6	447.1	451.5	454.4	456.4	457.3
45°	404.8	416.0	425.3	433.5	436.8	438.8	444.2	447.6	449.5	450.5
47.5°	395.1	407.2	416.9	425.3	428.6	432.0	436.8	439.8	441.8	441.8
50°	385.8	397.5	407.7	416.5	419.8	423.8	428.1	431.5	433.5	433.9
52.5°	376.1	388.3	398.4	407.2	410.7	414.0	418.9	422.3	424.2	424.2
55°	364.9	378.1	388.3	396.6	400.4	403.3	409.2	412.1	414.5	414.5
57.5°	353.8	366.9	377.6	386.3	390.7	393.1	399.0	401.9	404.3	404.8
60°	342.6	355.2	366.4	375.7	378.6	382.5	386.3	389.8	391.7	392.2
62.5°	330.9	343.6	354.7	362.0	366.4	368.4	373.2	375.2	377.1	376.6
65°	319.8	330.9	341.7	348.9	351.4	354.7	357.6	361.1	362.5	362.5
67.5°	306.2	317.4	327.1	334.4	337.7	339.7	343.1	345.0	347.4	346.0
70°	291.6	302.2	311.0	318.3	320.7	323.2	327.1	329.0	330.4	330.4
72.5°	276.5	286.7	295.4	301.8	304.2	307.1	310.1	312.0	313.0	313.5
75°	260.5	270.7	278.4	284.8	287.7	291.1	293.6	296.5	296.9	297.9
77.5°	245.5	254.6	261.9	269.2	270.7	273.1	276.0	278.4	279.5	279.0
80°	227.4	238.6	244.4	250.8	253.2	255.2	258.5	260.0	262.5	262.5
82.5°	209.4	219.2	225.9	233.2	236.2	237.1	241.5	244.0	244.4	244.9
85°	193.0	201.7	208.9	214.8	217.7	218.6	222.6	226.5	227.0	226.5
87.5°	174.5	183.7	191.5	196.8	199.2	201.7	205.1	207.0	208.9	208.5
90°	157.9	166.7	174.5	180.3	182.2	184.7	187.5	190.5	191.0	192.4
92.5°	141.9	151.1	158.9	164.3	167.2	168.1	171.6	174.0	174.9	176.4
95°	127.3	135.1	142.3	149.2	149.7	152.1	155.5	157.5	159.9	159.4
97.5°	112.7	121.5	127.8	132.6	135.1	137.5	140.5	142.3	143.8	143.8
100°	98.6	106.9	112.7	117.6	120.5	121.5	124.4	126.8	127.8	127.8
102.5°	86.0	92.8	98.6	104.5	105.9	107.4	110.3	113.2	113.2	114.2
105°	73.4	80.7	86.5	91.3	93.8	94.2	97.2	99.1	100.6	100.1
107.5°	62.2	69.0	75.3	79.2	81.2	82.7	85.6	87.0	88.4	88.9
110°	52.5	58.3	64.2	68.6	70.0	71.9	74.8	76.3	77.7	77.2

TEST NUMBER: P1212232

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	42.8	49.1	54.0	58.3	60.2	61.7	64.6	65.6	67.1	67.1
115°	34.5	39.9	44.7	49.1	50.5	52.0	54.5	55.9	56.9	57.3
117.5°	26.2	32.0	36.9	40.8	41.7	43.7	46.1	47.2	48.1	49.1
120°	19.9	24.3	28.7	32.0	34.0	35.0	37.5	38.9	39.9	39.9
122.5°	14.6	18.5	22.3	25.3	26.7	27.7	30.2	31.6	32.0	32.0
125°	9.2	13.1	16.1	19.0	20.5	21.4	22.9	24.3	25.3	25.8
127.5°	5.3	8.2	11.2	13.6	14.6	15.5	17.5	18.5	19.4	19.4
130°	0.9	3.4	6.4	8.2	9.2	10.2	11.7	12.6	13.6	13.6
132.5°	0.0	0.0	2.0	3.9	4.4	5.3	6.8	7.8	8.2	8.2
135°	0.0	0.0	0.0	0.0	0.5	0.9	2.4	2.9	3.4	3.4
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)