

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: P1212238

Luminaire Tested: 2VT3-LD5-4-W-UNV-L830-CD1-U

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P1212238
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-LD5-4-W-UNV-L830-CD1-U
Description: 2FT VT3 WIDE APPLICATION, 4000LM
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

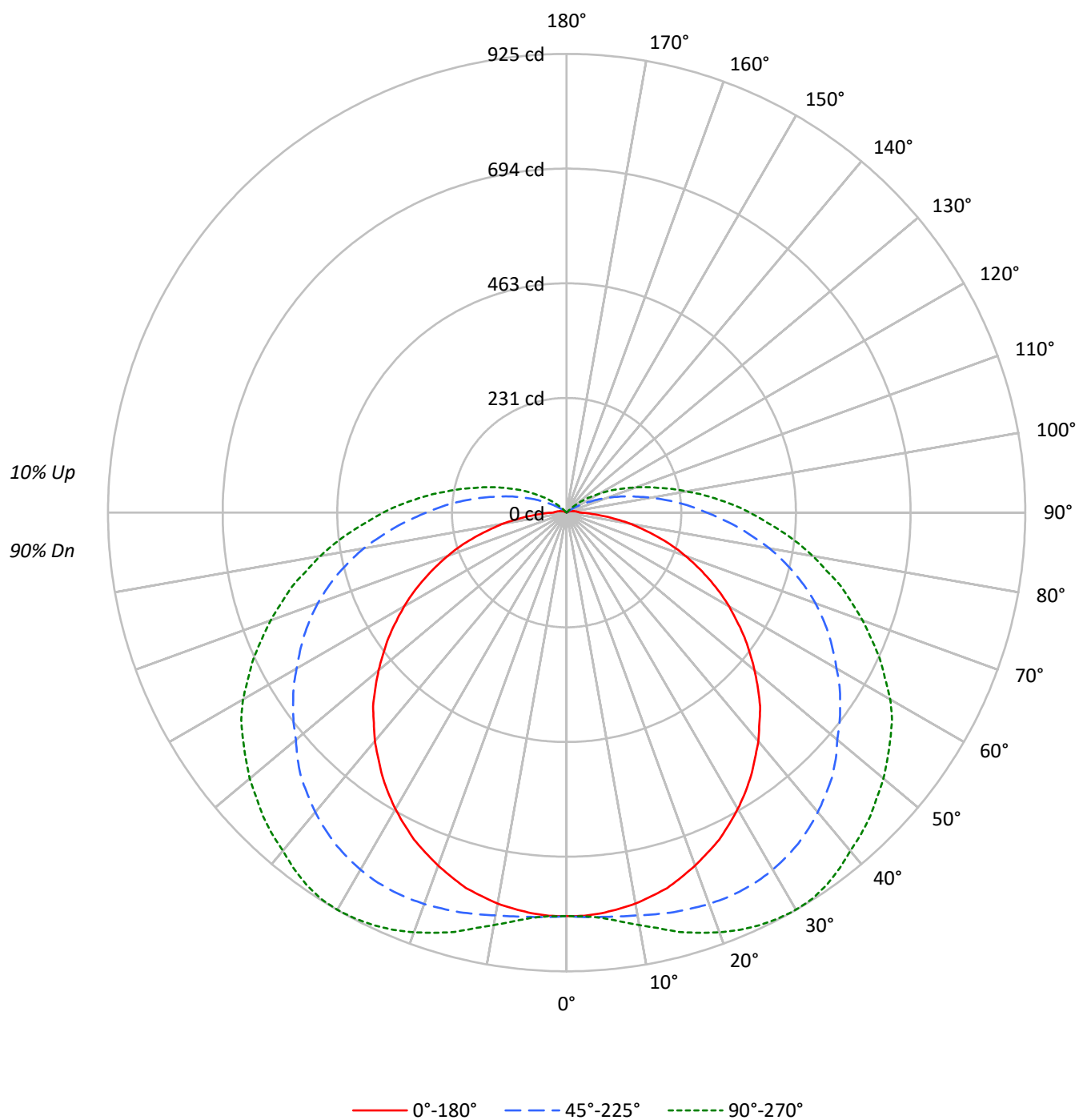
Lumens per Lamp: N/A
Luminaire Lumens: 4080.6 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.66 / 1.64
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 2' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 33.9
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: P1212238

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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	47	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°	10509	10509	10509
5°	10437	10302	10274
10°	10347	10203	10345
15°	10251	10219	10572
20°	10107	10267	10805
25°	9983	10324	11029
30°	9823	10357	11206
35°	9659	10363	11276
40°	9481	10331	11238
45°	9308	10300	11298
50°	9048	10177	11352
55°	8815	10192	11420
60°	8540	10202	11503
65°	8209	10296	11465
70°	7836	10405	11429
75°	7290	10468	11461
80°	6652	10521	11479
85°	5533	10524	11575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 90°

Luminance: 11945 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	1.9
10°-20°	235.5	5.8
20°-30°	383.8	9.4
30°-40°	499.8	12.2
40°-50°	564.5	13.8
50°-60°	578.2	14.2
60°-70°	540.6	13.2
70°-80°	455.1	11.2
80°-90°	335.3	8.2
90°-100°	215.3	5.3
100°-110°	119.1	2.9
110°-120°	55.0	1.3
120°-130°	18.2	0.4
130°-140°	2.0	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°	697.5	17.1
0°-40°	1197.3	29.3
0°-60°	2340.1	57.3
0°-90°	3671.1	90.0
90°-120°	389.4	9.5
90°-150°	409.5	10.0
90°-180°	410.0	10.0
0°-180°	4080.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	814	814	814	814	814	
5°	811	813	818	821	820	77
15°	784	798	834	866	875	221
25°	728	763	840	900	918	335
35°	648	703	814	894	915	405
45°	552	622	757	840	866	425
55°	438	522	674	770	797	391
65°	317	416	584	675	697	314
75°	192	311	477	553	572	203
85°	73	206	348	418	435	72
90°	27	152	283	350	370	17
95°	22	107	227	288	306	16
105°	12	36	127	180	192	13
115°	6	6	53	97	110	6
125°	2	2	11	39	50	2
135°	1	0	0	1	6	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-LD5-4-W-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	813.6	812.7	812.7	812.7	813.6	814.5	814.5	815.5	815.5	816.4	816.4
5°	810.8	809.9	810.8	810.8	811.7	812.7	813.6	814.5	815.5	817.3	818.3
7.5°	806.1	806.1	806.1	808.0	808.9	809.9	811.7	813.6	816.4	819.2	821.1
10°	800.5	800.5	801.5	802.4	805.2	807.1	808.9	812.7	816.4	821.1	824.8
12.5°	792.1	792.1	793.1	795.9	799.6	802.4	805.2	810.8	817.3	822.9	829.5
15°	783.7	782.8	784.7	789.3	794.0	797.7	801.5	808.9	816.4	824.8	834.2
17.5°	770.6	771.6	774.4	780.0	786.5	791.2	795.9	805.2	816.4	825.7	837.0
20°	757.6	758.5	762.2	767.8	777.2	782.8	789.3	800.5	813.6	826.7	839.8
22.5°	742.6	743.6	748.2	756.6	767.8	773.4	780.9	794.9	809.9	824.8	840.7
25°	727.7	728.6	734.2	742.6	755.7	763.2	770.6	788.4	805.2	822.9	839.8
27.5°	709.0	711.8	718.3	728.6	742.6	750.1	760.4	779.0	797.7	817.3	837.0
30°	690.3	692.2	698.7	711.8	727.7	737.0	746.4	766.9	789.3	809.9	831.4
32.5°	669.8	672.6	681.0	693.1	712.7	722.1	731.4	754.8	778.1	801.5	823.9
35°	648.3	651.1	658.6	674.4	694.1	703.4	715.5	739.8	765.0	790.3	814.5
37.5°	624.0	627.7	638.0	653.9	673.5	685.6	698.7	723.9	751.0	777.2	802.4
40°	601.6	603.5	613.7	630.5	652.0	665.1	678.2	707.1	734.2	762.2	788.4
42.5°	575.3	580.1	591.3	609.1	631.5	643.6	657.6	687.5	717.4	744.5	772.5
45°	552.0	553.9	566.0	585.7	609.1	622.1	637.1	666.0	695.9	726.7	756.6
47.5°	523.0	525.8	538.9	559.5	584.8	598.8	612.8	645.5	676.3	708.1	736.1
50°	495.0	499.7	512.8	534.2	560.4	574.4	590.4	621.2	654.8	683.8	712.7
52.5°	466.1	471.7	485.7	507.2	534.2	550.1	565.1	597.9	629.6	662.3	694.1
55°	438.0	442.7	455.8	479.1	509.0	522.1	538.0	572.5	605.3	640.8	673.5
57.5°	407.2	413.8	429.6	453.0	481.9	496.9	513.7	546.4	583.8	620.3	653.0
60°	378.3	382.9	401.6	425.0	453.9	468.9	485.7	522.1	560.4	596.9	628.7
62.5°	348.4	354.0	371.7	396.0	425.9	442.7	459.5	496.9	537.1	572.5	606.3
65°	316.6	324.1	343.7	367.1	399.8	415.6	434.3	473.5	511.8	549.2	583.8
67.5°	285.8	292.3	313.8	339.0	368.9	389.5	408.2	449.3	489.4	526.8	559.5
70°	255.0	261.5	281.1	310.1	342.8	363.3	382.0	423.1	464.2	499.7	534.2
72.5°	224.2	230.7	252.2	280.2	316.6	335.3	356.8	398.8	438.0	475.4	506.2
75°	191.5	202.7	222.3	254.0	290.5	311.0	331.6	373.6	411.9	447.4	477.3
77.5°	159.7	171.9	194.3	227.0	264.3	286.7	307.3	347.4	385.7	417.5	446.5
80°	131.7	142.0	166.3	198.0	239.1	258.7	279.3	319.4	355.9	388.5	415.6
82.5°	100.9	113.0	137.3	172.8	212.0	232.6	253.1	289.5	325.0	354.9	381.1
85°	72.9	85.0	112.1	148.5	184.9	205.5	224.2	261.5	294.2	324.1	348.4
87.5°	47.6	59.8	87.8	124.2	159.7	178.4	195.2	229.8	262.5	291.4	314.8
90°	27.1	41.1	68.2	100.9	135.4	152.2	170.0	202.7	232.6	259.7	283.0
92.5°	24.3	29.0	51.4	82.2	113.0	130.8	145.7	176.5	206.4	231.6	255.0
95°	21.5	22.4	36.4	63.5	93.4	107.4	123.3	153.2	180.3	204.5	227.0
97.5°	18.7	18.7	25.2	45.8	72.9	87.8	101.8	128.9	156.0	179.3	198.9
100°	15.9	16.8	17.7	31.8	55.1	69.1	81.3	107.4	131.7	152.2	172.8
102.5°	14.0	14.0	14.9	21.5	39.2	51.4	62.6	86.9	108.3	128.9	147.6
105°	12.1	12.1	12.1	14.0	27.1	35.5	45.8	67.2	88.7	108.3	127.0
107.5°	10.3	10.3	10.3	11.2	17.7	25.2	32.7	50.4	70.0	88.7	105.5
110°	8.4	8.4	8.4	9.3	10.3	15.9	22.4	36.4	53.2	71.9	85.9

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	6.5	6.5	6.5	7.5	7.5	8.4	14.0	26.2	39.2	55.1	70.0
115°	5.6	5.6	5.6	5.6	6.5	6.5	6.5	15.9	28.0	41.1	53.2
117.5°	4.7	4.7	4.7	4.7	4.7	4.7	5.6	9.3	18.7	29.9	40.2
120°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	10.3	19.6	29.0
122.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.7	11.2	19.6
125°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	11.2
127.5°	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	2.8
130°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
132.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
135°	0.9	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°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	817.3	817.3	817.3	816.4	816.4	816.4	815.5	815.5	814.5	814.5
5°	819.2	820.1	821.1	821.1	821.1	821.1	821.1	821.1	820.1	820.1
7.5°	823.9	825.7	826.7	828.6	828.6	829.5	830.4	830.4	830.4	831.4
10°	828.6	832.3	835.1	838.8	839.8	840.7	842.6	842.6	843.5	844.4
12.5°	835.1	840.7	846.3	851.0	851.9	853.8	855.6	858.4	858.4	858.4
15°	841.6	850.0	856.6	861.2	865.9	866.8	869.6	873.4	873.4	875.3
17.5°	848.2	857.5	867.8	874.3	878.1	880.9	883.7	885.5	889.3	888.3
20°	852.8	864.0	874.3	883.7	886.5	889.3	894.9	898.6	900.5	900.5
22.5°	854.7	868.7	879.9	890.2	893.9	897.7	903.3	907.9	909.8	910.7
25°	855.6	870.6	883.7	894.9	899.5	903.3	910.7	914.5	917.3	918.2
27.5°	854.7	870.6	885.5	897.7	902.3	907.0	914.5	919.1	922.9	922.9
30°	851.0	868.7	884.6	897.7	903.3	907.9	915.4	921.0	923.8	924.8
32.5°	844.4	864.0	880.9	893.9	900.5	905.1	913.5	919.1	922.0	922.9
35°	837.0	856.6	874.3	887.4	893.9	898.6	907.0	911.7	914.5	915.4
37.5°	825.7	846.3	864.0	878.1	883.7	888.3	894.9	901.4	903.3	904.2
40°	812.7	833.2	850.0	864.0	868.7	874.3	879.9	886.5	889.3	890.2
42.5°	796.8	816.4	834.2	848.2	852.8	859.4	867.8	873.4	877.1	879.0
45°	778.1	799.6	817.3	833.2	839.8	843.5	853.8	860.3	864.0	865.9
47.5°	759.4	782.8	801.5	817.3	823.9	830.4	839.8	845.4	849.1	849.1
50°	741.7	764.1	783.7	800.5	807.1	814.5	822.9	829.5	833.2	834.2
52.5°	723.0	746.4	766.0	782.8	789.3	795.9	805.2	811.7	815.5	815.5
55°	701.5	726.7	746.4	762.2	769.7	775.3	786.5	792.1	796.8	796.8
57.5°	680.0	705.3	725.8	742.6	751.0	755.7	766.9	772.5	777.2	778.1
60°	658.6	682.8	704.3	722.1	727.7	735.2	742.6	749.2	752.9	753.8
62.5°	636.1	660.4	681.9	695.9	704.3	708.1	717.4	721.1	724.9	723.9
65°	614.7	636.1	656.7	670.7	675.4	681.9	687.5	694.1	696.9	696.9
67.5°	588.5	610.0	628.7	642.7	649.2	653.0	659.5	663.2	667.9	665.1
70°	560.4	581.0	597.9	611.9	616.5	621.2	628.7	632.4	635.2	635.2
72.5°	531.4	551.1	567.9	580.1	584.8	590.4	596.0	599.7	601.6	602.5
75°	500.6	520.2	535.2	547.3	552.9	559.5	564.1	569.7	570.7	572.5
77.5°	471.7	489.4	503.4	517.4	520.2	524.9	530.5	535.2	537.1	536.1
80°	437.1	458.6	469.8	481.9	486.6	490.4	496.9	499.7	504.4	504.4
82.5°	402.6	421.2	434.3	448.3	453.9	455.8	464.2	468.9	469.8	470.7
85°	370.8	387.6	401.6	412.8	418.4	420.3	427.8	435.2	436.2	435.2
87.5°	335.3	353.1	368.0	378.3	382.9	387.6	394.1	397.9	401.6	400.7
90°	303.6	320.4	335.3	346.5	350.2	354.9	360.5	366.1	367.1	369.9
92.5°	272.7	290.5	305.4	315.7	321.3	323.2	329.7	334.4	336.2	339.0
95°	244.7	259.7	273.7	286.7	287.7	292.3	298.9	302.6	307.3	306.4
97.5°	216.7	233.5	245.6	255.0	259.7	264.3	269.9	273.7	276.5	276.5
100°	189.6	205.5	216.7	226.0	231.6	233.5	239.1	243.8	245.6	245.6
102.5°	165.3	178.4	189.6	200.8	203.6	206.4	212.0	217.6	217.6	219.5
105°	141.0	155.0	166.3	175.6	180.3	181.2	186.8	190.5	193.3	192.4
107.5°	119.6	132.6	144.8	152.2	156.0	158.8	164.4	167.2	170.0	170.9
110°	100.9	112.1	123.3	131.7	134.5	138.2	143.8	146.6	149.4	148.5

TEST NUMBER: P1212238

CATALOG NUMBER: 2VT3-LD5-4-W-UNV-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	82.2	94.3	103.7	112.1	115.8	118.6	124.2	126.1	128.9	128.9
115°	66.3	76.6	85.9	94.3	97.1	99.9	104.6	107.4	109.3	110.2
117.5°	50.4	61.6	71.0	78.5	80.3	84.1	88.7	90.6	92.5	94.3
120°	38.3	46.7	55.1	61.6	65.4	67.2	71.9	74.7	76.6	76.6
122.5°	28.0	35.5	43.0	48.6	51.4	53.2	57.9	60.7	61.6	61.6
125°	17.7	25.2	30.8	36.4	39.2	41.1	43.9	46.7	48.6	49.5
127.5°	10.3	15.9	21.5	26.2	28.0	29.9	33.6	35.5	37.4	37.4
130°	1.9	6.5	12.1	15.9	17.7	19.6	22.4	24.3	26.2	26.2
132.5°	0.0	0.0	3.7	7.5	8.4	10.3	13.1	14.9	15.9	15.9
135°	0.0	0.0	0.0	0.0	0.9	1.9	4.7	5.6	6.5	6.5
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)