

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: P237720

Luminaire Tested: **2VT2-LD5-2-DR-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-2-DR-UNV-L840-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (56) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2211.9 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

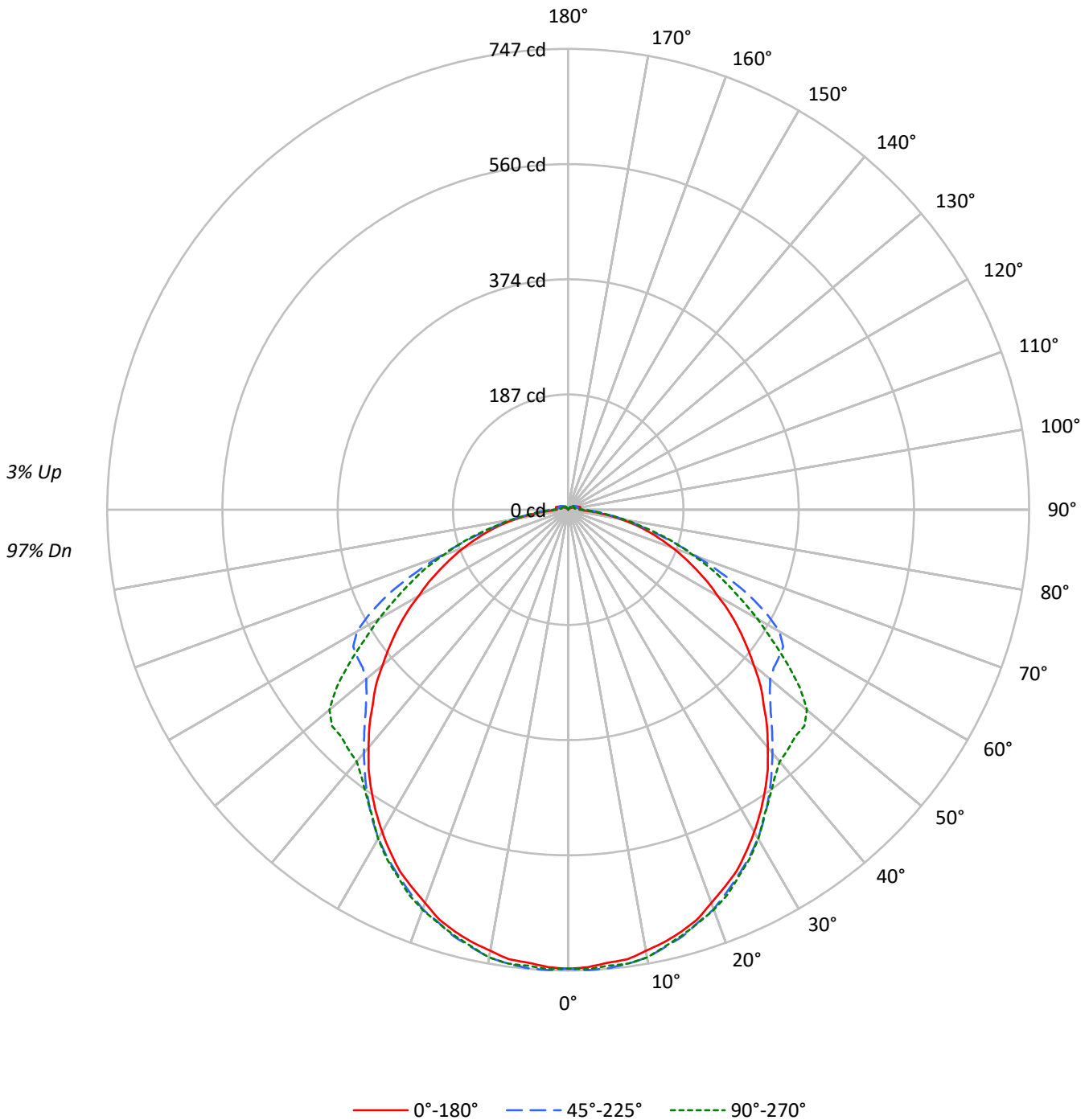
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	110	110	110	104	104	104	100	100	100	97
1	108	103	98	94	105	100	96	92	95	92	89	91	88	86	87	85	83	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	70	64	59	67	62	58	56
4	81	69	60	53	79	67	59	53	65	57	52	62	56	51	59	54	50	47
5	75	61	52	46	72	60	52	45	58	50	44	55	49	44	53	48	43	41
6	69	55	46	40	67	54	46	39	52	44	39	50	43	38	48	42	38	36
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°	7689	7689	7689
5°	7593	7546	7480
10°	7513	7355	7305
15°	7416	7104	7013
20°	7246	6849	6768
25°	7102	6553	6464
30°	6877	6279	6164
35°	6642	5937	5819
40°	6358	5579	5618
45°	6062	5247	5699
50°	5768	5091	5810
55°	5465	5300	5273
60°	5082	5420	4638
65°	4779	4780	4035
70°	4434	3703	3391
75°	4058	2769	2687
80°	3439	2015	1915
85°	2539	1366	1183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.2
10°-20°	201.3	9.1
20°-30°	300.8	13.6
30°-40°	353.9	16.0
40°-50°	369.7	16.7
50°-60°	354.8	16.0
60°-70°	277.4	12.5
70°-80°	163.6	7.4
80°-90°	59.6	2.7
90°-100°	21.0	0.9
100°-110°	15.3	0.7
110°-120°	11.6	0.5
120°-130°	7.4	0.3
130°-140°	3.7	0.2
140°-150°	1.2	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	572.8	25.9
0°-40°	926.7	41.9
0°-60°	1651.2	74.6
0°-90°	2151.7	97.3
90°-120°	47.9	2.2
90°-150°	60.2	2.7
90°-180°	60.0	2.7
0°-180°	2211.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	737	743	746	747	742	70
15°	708	715	716	716	714	199
25°	646	651	653	659	655	297
35°	556	559	567	569	569	347
45°	448	455	464	502	520	347
55°	338	343	417	447	432	302
65°	229	260	318	282	283	227
75°	132	183	145	150	151	139
85°	41	56	50	50	48	43
90°	18	29	27	26	24	11
95°	19	21	19	16	15	16
105°	18	17	15	12	10	19
115°	11	12	14	11	10	11
125°	5	5	10	10	10	5
135°	2	2	5	7	8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	742.1	743.1	743.1	744.1	745.1	746.1	746.1	746.1	747.1	747.1	747.1
5°	737.1	738.1	740.1	741.1	742.1	743.1	743.1	743.1	745.1	745.1	746.1
7.5°	735.1	735.1	737.1	738.1	739.1	741.1	740.1	741.1	742.1	742.1	742.1
10°	726.1	725.1	724.1	725.1	727.1	727.1	727.1	731.1	734.1	735.1	737.1
12.5°	718.1	720.1	722.1	722.1	722.1	723.1	723.1	723.1	724.1	724.1	726.1
15°	708.1	710.1	712.1	712.1	713.1	715.1	715.1	717.1	716.1	716.1	716.1
17.5°	696.1	694.1	697.1	699.1	701.1	702.1	703.1	703.1	701.1	702.1	701.1
20°	678.1	679.1	680.1	682.1	685.1	684.1	685.1	687.1	687.1	687.1	689.1
22.5°	662.1	666.1	667.1	669.1	671.1	670.1	670.1	670.1	670.1	669.1	671.1
25°	646.1	647.1	649.1	652.1	651.1	651.1	650.1	649.1	651.1	650.1	653.1
27.5°	625.0	624.0	628.1	629.1	630.1	630.1	630.1	631.1	632.1	632.1	635.1
30°	603.0	605.0	607.0	609.0	608.0	608.0	609.0	609.0	610.0	612.0	615.0
32.5°	580.0	582.0	585.0	587.0	585.0	585.0	585.0	586.0	589.0	592.0	592.0
35°	556.0	557.0	561.0	560.0	560.0	559.0	560.0	562.0	565.0	567.0	567.0
37.5°	531.0	532.0	534.0	534.0	536.0	534.0	536.0	538.0	540.0	540.0	541.0
40°	503.0	505.0	509.0	509.0	510.0	509.0	510.0	512.0	513.0	512.0	515.0
42.5°	477.0	478.0	480.0	481.0	481.0	482.0	482.0	484.0	485.0	489.0	489.0
45°	448.0	451.0	452.0	452.0	453.0	455.0	456.0	457.0	458.0	461.0	464.0
47.5°	423.0	423.0	424.0	424.0	427.0	427.0	429.0	427.0	432.0	437.0	443.0
50°	393.0	396.0	396.0	394.0	397.0	398.0	399.0	400.0	406.0	414.0	427.0
52.5°	365.0	367.0	367.0	368.0	369.0	371.0	373.0	376.0	385.0	397.0	420.0
55°	338.0	340.0	339.0	340.0	341.0	343.0	345.0	354.0	366.0	390.0	417.0
57.5°	310.0	310.0	310.0	311.0	315.0	317.0	322.0	334.0	356.0	385.0	413.0
60°	280.0	284.0	283.0	286.0	291.0	295.0	302.0	320.0	350.0	380.0	395.0
62.5°	255.0	258.0	259.0	261.0	270.0	276.0	285.0	312.0	344.0	363.0	361.0
65°	229.0	230.0	232.0	239.0	251.0	260.0	273.0	304.0	328.0	327.0	318.0
67.5°	204.0	206.0	210.0	218.0	234.0	246.0	262.0	288.0	296.0	285.0	269.0
70°	179.0	182.0	187.0	197.0	218.0	232.0	247.0	258.0	252.0	236.0	221.0
72.5°	155.0	158.0	165.0	179.0	201.0	213.0	219.0	220.0	207.0	194.0	182.0
75°	132.0	135.0	143.0	159.0	177.0	183.0	184.0	177.0	165.0	153.0	145.0
77.5°	109.0	112.0	122.0	137.0	147.0	147.0	145.0	138.0	128.0	120.0	116.0
80°	84.0	88.0	98.0	109.0	113.0	112.0	110.0	104.0	96.0	91.0	90.0
82.5°	62.0	66.0	75.0	81.0	83.0	82.0	80.0	76.0	71.0	68.0	68.0
85°	41.0	45.0	51.0	55.0	57.0	56.0	56.0	53.0	52.0	50.0	50.0
87.5°	25.0	28.0	33.0	37.0	39.0	39.0	39.0	38.0	37.0	37.0	36.0
90°	18.0	20.0	24.0	27.0	29.0	29.0	29.0	29.0	29.0	28.0	27.0
92.5°	18.0	19.0	20.0	22.0	23.0	24.0	24.0	24.0	23.0	23.0	22.0
95°	19.0	19.0	20.0	20.0	20.0	21.0	21.0	21.0	20.0	20.0	19.0
97.5°	20.0	20.0	20.0	19.0	19.0	19.0	19.0	19.0	18.0	18.0	17.0
100°	20.0	20.0	19.0	19.0	18.0	18.0	18.0	18.0	17.0	17.0	16.0
102.5°	20.0	19.0	19.0	18.0	17.0	17.0	17.0	17.0	17.0	16.0	15.0
105°	18.0	18.0	18.0	17.0	17.0	17.0	16.0	16.0	16.0	16.0	15.0
107.5°	17.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	15.0
110°	15.0	15.0	14.0	14.0	14.0	15.0	15.0	15.0	15.0	15.0	15.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	13.0	13.0	12.0	12.0	13.0	13.0	13.0	14.0	14.0	15.0	14.0
115°	11.0	11.0	10.0	10.0	11.0	12.0	12.0	13.0	13.0	14.0	14.0
117.5°	9.0	9.0	9.0	9.0	10.0	10.0	10.0	11.0	12.0	13.0	13.0
120°	7.0	7.0	7.0	7.0	8.0	8.0	9.0	10.0	11.0	12.0	12.0
122.5°	6.0	6.0	6.0	5.0	6.0	7.0	7.0	9.0	10.0	10.0	11.0
125°	5.0	5.0	5.0	4.0	5.0	5.0	6.0	7.0	8.0	9.0	10.0
127.5°	4.0	4.0	4.0	4.0	4.0	4.0	5.0	6.0	7.0	8.0	9.0
130°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	5.0	6.0	7.0
132.5°	3.0	3.0	3.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0	6.0
135°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	4.0	5.0
137.5°	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	3.0	4.0
140°	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	3.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
145°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
147.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0
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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	747.1	747.1	747.1	747.1	746.1	746.1	745.1	745.1	745.1	745.1
5°	747.1	747.1	747.1	747.1	747.1	746.1	745.1	744.1	743.1	742.1
7.5°	742.1	744.1	745.1	745.1	745.1	744.1	743.1	742.1	742.1	742.1
10°	738.1	738.1	739.1	739.1	738.1	737.1	737.1	737.1	736.1	737.1
12.5°	727.1	727.1	727.1	726.1	726.1	726.1	725.1	725.1	725.1	725.1
15°	715.1	715.1	716.1	716.1	716.1	717.1	714.1	715.1	713.1	714.1
17.5°	702.1	703.1	702.1	701.1	702.1	703.1	702.1	701.1	701.1	702.1
20°	688.1	687.1	689.1	690.1	690.1	689.1	688.1	689.1	690.1	690.1
22.5°	671.1	673.1	675.1	676.1	676.1	675.1	675.1	674.1	675.1	675.1
25°	654.1	656.1	658.1	659.1	659.1	659.1	657.1	657.1	658.1	655.1
27.5°	637.1	637.1	639.1	639.1	636.1	636.1	637.1	638.1	636.1	637.1
30°	617.0	615.0	617.0	617.0	617.0	617.0	617.0	617.0	618.0	616.0
32.5°	591.0	592.0	594.0	595.0	595.0	595.0	592.0	594.0	593.0	590.0
35°	568.0	570.0	570.0	570.0	569.0	569.0	568.0	568.0	569.0	569.0
37.5°	542.0	542.0	543.0	545.0	545.0	546.0	549.0	550.0	551.0	549.0
40°	517.0	518.0	523.0	525.0	526.0	528.0	530.0	531.0	533.0	533.0
42.5°	491.0	497.0	502.0	505.0	508.0	513.0	520.0	525.0	525.0	527.0
45°	472.0	477.0	488.0	499.0	502.0	506.0	510.0	514.0	520.0	520.0
47.5°	453.0	469.0	481.0	493.0	500.0	504.0	514.0	517.0	521.0	519.0
50°	446.0	463.0	481.0	494.0	499.0	501.0	507.0	507.0	507.0	505.0
52.5°	443.0	463.0	478.0	483.0	483.0	482.0	479.0	476.0	477.0	473.0
55°	441.0	455.0	457.0	450.0	447.0	446.0	440.0	434.0	434.0	432.0
57.5°	427.0	428.0	419.0	408.0	407.0	404.0	397.0	395.0	395.0	390.0
60°	393.0	386.0	375.0	367.0	363.0	361.0	357.0	354.0	353.0	354.0
62.5°	352.0	341.0	328.0	322.0	319.0	317.0	318.0	318.0	318.0	317.0
65°	304.0	292.0	284.0	281.0	282.0	283.0	284.0	283.0	284.0	283.0
67.5°	256.0	249.0	245.0	246.0	248.0	246.0	249.0	249.0	248.0	251.0
70°	212.0	211.0	211.0	212.0	212.0	214.0	216.0	216.0	217.0	215.0
72.5°	176.0	177.0	178.0	181.0	181.0	182.0	182.0	183.0	182.0	184.0
75°	144.0	146.0	148.0	150.0	150.0	151.0	153.0	151.0	151.0	151.0
77.5°	115.0	118.0	119.0	121.0	121.0	121.0	122.0	121.0	121.0	119.0
80°	91.0	92.0	93.0	95.0	94.0	95.0	95.0	93.0	93.0	93.0
82.5°	69.0	70.0	71.0	70.0	70.0	70.0	71.0	69.0	68.0	68.0
85°	50.0	50.0	51.0	51.0	50.0	50.0	49.0	49.0	48.0	48.0
87.5°	36.0	36.0	36.0	36.0	35.0	35.0	35.0	34.0	34.0	34.0
90°	27.0	27.0	27.0	26.0	26.0	26.0	25.0	25.0	25.0	24.0
92.5°	22.0	21.0	21.0	20.0	20.0	20.0	19.0	19.0	19.0	19.0
95°	18.0	18.0	17.0	17.0	16.0	16.0	16.0	15.0	15.0	15.0
97.5°	16.0	15.0	15.0	14.0	14.0	14.0	13.0	13.0	13.0	13.0
100°	15.0	14.0	14.0	13.0	13.0	13.0	12.0	12.0	11.0	11.0
102.5°	15.0	14.0	13.0	12.0	12.0	12.0	11.0	11.0	11.0	11.0
105°	14.0	14.0	13.0	12.0	12.0	11.0	11.0	11.0	10.0	10.0
107.5°	14.0	14.0	13.0	12.0	12.0	11.0	11.0	10.0	10.0	10.0
110°	14.0	13.0	13.0	12.0	12.0	11.0	11.0	10.0	10.0	10.0



TEST NUMBER: P237720

CATALOG NUMBER: 2VT2-LD5-2-DR-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	14.0	13.0	12.0	12.0	12.0	11.0	11.0	10.0	10.0	10.0
115°	13.0	13.0	12.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0
117.5°	13.0	12.0	12.0	11.0	11.0	11.0	11.0	10.0	10.0	10.0
120°	12.0	12.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0
122.5°	11.0	11.0	11.0	11.0	11.0	11.0	10.0	10.0	10.0	10.0
125°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
127.5°	9.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0
130°	8.0	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
132.5°	7.0	7.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
135°	6.0	6.0	7.0	7.0	7.0	7.0	8.0	8.0	8.0	8.0
137.5°	4.0	5.0	6.0	6.0	6.0	6.0	7.0	7.0	7.0	7.0
140°	3.0	4.0	4.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0
142.5°	2.0	3.0	3.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0
145°	2.0	2.0	2.0	3.0	3.0	3.0	3.0	4.0	4.0	4.0
147.5°	1.0	1.0	2.0	2.0	2.0	2.0	3.0	3.0	3.0	3.0
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)