

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: P237768

Luminaire Tested: **2VRVT2-LD5-5-DR-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-5-DR-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4576.0 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

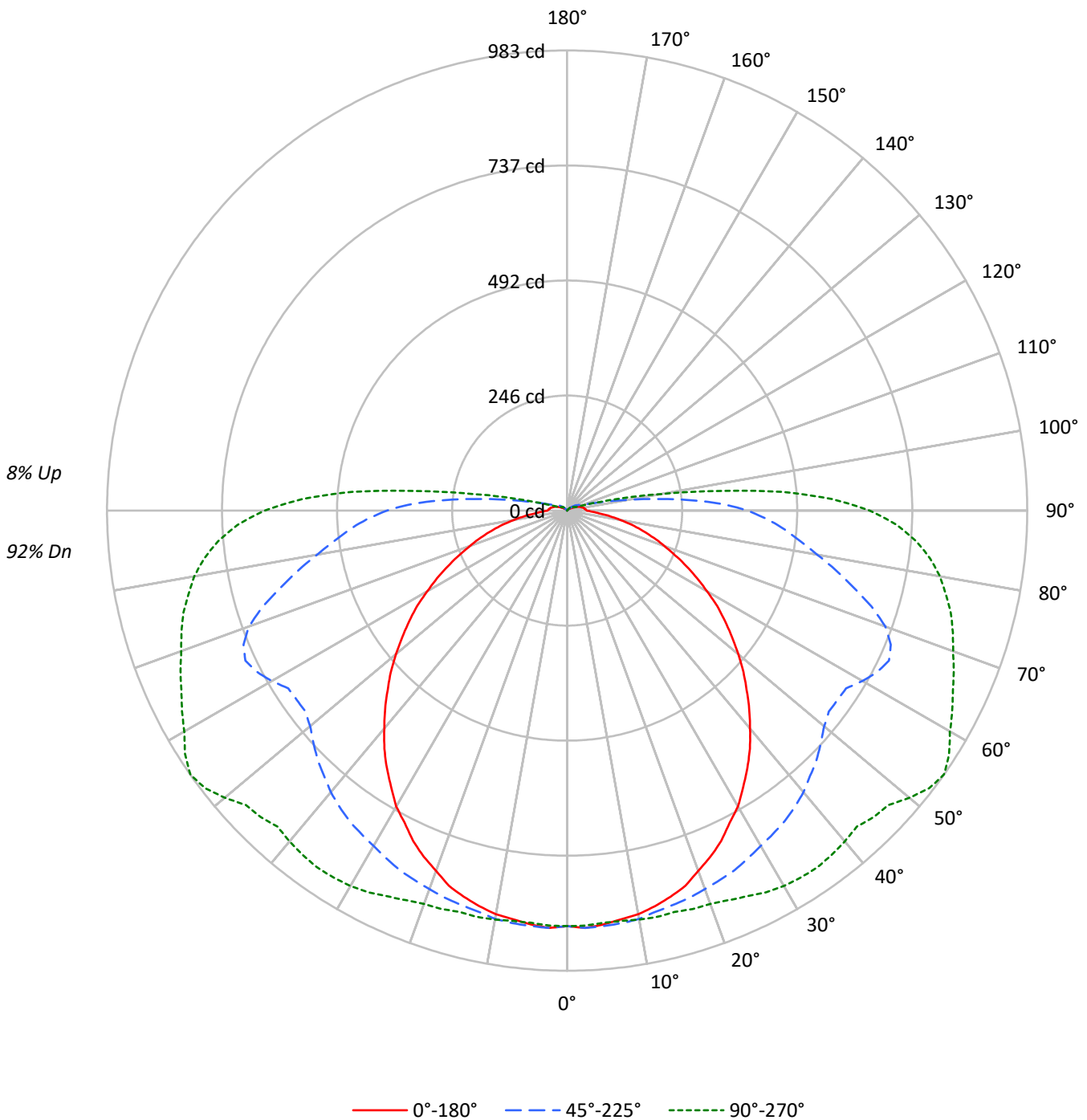
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	92
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°	9170	9170	9170
5°	9141	9009	8910
10°	9060	8838	8794
15°	8943	8654	8715
20°	8748	8554	8768
25°	8557	8501	8971
30°	8326	8444	9265
35°	8020	8485	9521
40°	7683	8506	9724
45°	7341	8520	10148
50°	7004	8544	10980
55°	6660	8959	11995
60°	6260	9993	12372
65°	5871	11399	12962
70°	5474	12120	13835
75°	5147	12086	15103
80°	4728	12148	16649
85°	4248	12758	18447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	1.8
10°-20°	246.8	5.4
20°-30°	390.2	8.5
30°-40°	504.3	11.0
40°-50°	575.4	12.6
50°-60°	631.2	13.8
60°-70°	650.2	14.2
70°-80°	610.9	13.3
80°-90°	495.3	10.8
90°-100°	279.4	6.1
100°-110°	68.9	1.5
110°-120°	22.5	0.5
120°-130°	11.7	0.3
130°-140°	4.3	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°	721.6	15.8
0°-40°	1225.9	26.8
0°-60°	2432.5	53.2
0°-90°	4188.9	91.5
90°-120°	370.8	8.1
90°-150°	387.1	8.5
90°-180°	387.0	8.5
0°-180°	4576.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	887	887	887	887	887	
5°	887	891	891	887	884	84
15°	854	857	872	886	887	241
25°	778	795	847	891	909	358
35°	671	710	810	901	931	420
45°	542	608	753	872	926	419
55°	412	497	705	928	983	368
65°	281	400	758	876	909	279
75°	167	395	633	785	849	177
85°	69	273	467	670	748	67
90°	42	199	385	571	646	24
95°	38	132	260	402	460	31
105°	30	44	64	70	69	31
115°	17	22	28	22	17	17
125°	8	8	17	15	13	8
135°	3	2	7	8	8	2
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	892.4	892.4	890.7	892.4	892.4	890.7	892.4	892.4	892.4	892.4	892.4
5°	887.4	889.0	889.0	889.0	889.0	890.7	890.7	890.7	890.7	890.7	890.7
7.5°	880.7	882.3	884.0	884.0	885.7	885.7	885.7	885.7	887.4	889.0	889.0
10°	875.6	875.6	877.3	879.0	877.3	879.0	880.7	880.7	882.3	884.0	885.7
12.5°	865.6	865.6	867.3	868.9	868.9	868.9	870.6	872.3	874.0	875.6	877.3
15°	853.9	853.9	855.5	855.5	857.2	857.2	857.2	860.6	863.9	868.9	872.3
17.5°	840.5	838.8	840.5	842.2	843.8	845.5	845.5	850.5	858.9	863.9	867.3
20°	818.7	822.1	823.7	827.1	828.8	828.8	832.1	840.5	847.2	852.2	860.6
22.5°	800.3	802.0	802.0	807.0	812.0	812.0	815.4	823.7	833.8	842.2	853.9
25°	778.5	778.5	781.9	785.2	791.9	795.3	798.6	810.3	820.4	833.8	847.2
27.5°	751.7	755.1	758.4	761.8	771.8	776.9	783.6	795.3	808.7	823.7	837.1
30°	730.0	730.0	733.3	738.4	750.1	756.8	763.5	778.5	793.6	810.3	827.1
32.5°	699.8	701.5	706.5	713.2	726.6	735.0	741.7	760.1	776.9	795.3	818.7
35°	671.4	673.1	679.8	688.1	703.2	709.9	719.9	740.0	760.1	783.6	810.3
37.5°	641.2	642.9	647.9	661.3	678.1	686.4	696.5	716.6	741.7	770.2	798.6
40°	607.8	612.8	617.8	634.5	649.6	661.3	671.4	696.5	725.0	756.8	785.2
42.5°	575.9	579.3	587.7	604.4	621.2	636.2	646.3	673.1	706.5	738.4	768.5
45°	542.5	545.8	557.5	574.3	596.0	607.8	621.2	651.3	688.1	719.9	753.4
47.5°	510.7	515.7	525.7	544.1	565.9	581.0	596.0	629.5	664.7	699.8	735.0
50°	477.2	482.2	493.9	514.0	535.8	552.5	569.3	606.1	642.9	679.8	716.6
52.5°	443.7	448.7	462.1	482.2	507.3	525.7	542.5	581.0	621.2	659.7	704.9
55°	411.9	415.2	430.3	452.1	480.5	497.3	514.0	555.9	597.7	644.6	704.9
57.5°	380.1	380.1	398.5	421.9	452.1	468.8	488.9	530.7	581.0	642.9	706.5
60°	344.9	349.9	366.7	390.1	425.3	443.7	463.8	510.7	574.3	646.3	728.3
62.5°	313.1	318.1	334.9	360.0	398.5	420.2	443.7	502.3	577.6	664.7	746.7
65°	281.3	286.3	303.0	334.9	376.7	400.1	430.3	504.0	594.4	686.4	758.4
67.5°	249.5	256.2	277.9	309.7	360.0	390.1	425.3	515.7	614.5	694.8	748.4
70°	221.0	227.7	252.8	291.3	348.2	386.8	430.3	530.7	619.5	681.4	723.3
72.5°	194.2	202.6	231.0	276.3	344.9	390.1	438.7	534.1	606.1	651.3	681.4
75°	167.4	177.5	212.6	267.9	346.6	395.1	440.3	519.0	574.3	606.1	632.9
77.5°	142.3	154.0	197.6	259.5	344.9	386.8	423.6	483.9	522.4	554.2	587.7
80°	115.5	133.9	182.5	251.1	326.5	358.3	385.1	430.3	470.5	502.3	542.5
82.5°	92.1	113.9	165.8	231.0	291.3	318.1	339.9	381.7	418.6	458.7	502.3
85°	68.6	93.8	145.7	200.9	251.1	272.9	294.7	333.2	371.7	416.9	467.1
87.5°	51.9	75.3	122.2	169.1	214.3	232.7	252.8	293.0	331.5	376.7	428.6
90°	41.9	61.9	100.5	142.3	180.8	199.2	217.7	252.8	294.7	334.9	385.1
92.5°	40.2	51.9	83.7	117.2	150.7	167.4	182.5	214.3	251.1	288.0	329.8
95°	38.5	43.5	65.3	92.1	118.9	132.3	144.0	169.1	197.6	226.0	259.5
97.5°	36.8	38.5	51.9	70.3	90.4	100.5	110.5	128.9	147.3	167.4	187.5
100°	35.2	35.2	41.9	55.3	68.6	75.3	80.4	95.4	107.2	118.9	132.3
102.5°	31.8	31.8	35.2	41.9	51.9	56.9	60.3	68.6	77.0	85.4	92.1
105°	30.1	28.5	30.1	35.2	40.2	43.5	46.9	51.9	55.3	60.3	63.6
107.5°	26.8	26.8	26.8	30.1	33.5	35.2	36.8	40.2	43.5	45.2	46.9
110°	23.4	23.4	21.8	25.1	28.5	30.1	31.8	33.5	35.2	36.8	36.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.1	20.1	20.1	20.1	23.4	25.1	26.8	28.5	31.8	31.8	31.8
115°	16.7	16.7	16.7	16.7	20.1	21.8	23.4	25.1	26.8	28.5	28.5
117.5°	13.4	13.4	13.4	13.4	16.7	16.7	18.4	21.8	23.4	25.1	25.1
120°	11.7	11.7	11.7	10.0	13.4	15.1	15.1	18.4	20.1	21.8	23.4
122.5°	10.0	8.4	8.4	8.4	10.0	10.0	11.7	15.1	16.7	18.4	20.1
125°	8.4	6.7	6.7	6.7	6.7	8.4	10.0	11.7	15.1	16.7	16.7
127.5°	6.7	5.0	5.0	5.0	5.0	5.0	6.7	8.4	11.7	13.4	13.4
130°	5.0	5.0	5.0	3.3	3.3	3.3	3.3	6.7	8.4	10.0	11.7
132.5°	3.3	3.3	3.3	3.3	1.7	1.7	1.7	3.3	5.0	6.7	8.4
135°	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7	3.3	5.0	6.7
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	1.7	3.3	3.3
140°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7
142.5°	1.7	1.7	1.7	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°	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4	887.4
2.5°	892.4	892.4	890.7	890.7	890.7	889.0	889.0	887.4	887.4	887.4
5°	890.7	890.7	889.0	889.0	887.4	887.4	885.7	885.7	885.7	884.0
7.5°	887.4	887.4	887.4	885.7	885.7	885.7	884.0	884.0	884.0	884.0
10°	884.0	884.0	884.0	885.7	885.7	885.7	885.7	887.4	887.4	887.4
12.5°	879.0	880.7	884.0	884.0	885.7	885.7	885.7	887.4	889.0	889.0
15°	874.0	879.0	882.3	885.7	885.7	887.4	887.4	889.0	889.0	887.4
17.5°	872.3	877.3	882.3	885.7	887.4	889.0	890.7	892.4	894.1	892.4
20°	867.3	875.6	882.3	887.4	889.0	889.0	894.1	895.7	895.7	894.1
22.5°	862.2	872.3	879.0	885.7	889.0	890.7	895.7	897.4	899.1	900.8
25°	857.2	865.6	877.3	887.4	890.7	895.7	900.8	905.8	907.5	909.1
27.5°	852.2	863.9	879.0	890.7	895.7	900.8	909.1	915.8	915.8	919.2
30°	843.8	863.9	879.0	894.1	899.1	905.8	917.5	924.2	925.9	925.9
32.5°	840.5	862.2	880.7	895.7	902.4	907.5	919.2	925.9	929.2	929.2
35°	833.8	857.2	877.3	892.4	900.8	905.8	917.5	927.5	929.2	930.9
37.5°	823.7	848.9	870.6	887.4	894.1	902.4	914.1	920.8	925.9	927.5
40°	813.7	837.1	860.6	879.0	887.4	894.1	907.5	917.5	920.8	922.5
42.5°	797.0	825.4	848.9	870.6	879.0	885.7	900.8	909.1	915.8	915.8
45°	783.6	810.3	838.8	860.6	872.3	882.3	902.4	917.5	925.9	925.9
47.5°	768.5	798.6	832.1	867.3	880.7	892.4	910.8	920.8	929.2	930.9
50°	755.1	798.6	838.8	870.6	884.0	899.1	924.2	942.6	952.7	954.3
52.5°	753.4	802.0	845.5	889.0	905.8	924.2	947.6	962.7	971.1	974.4
55°	756.8	817.0	870.6	909.1	927.5	940.9	961.0	974.4	979.4	982.8
57.5°	776.9	838.8	887.4	920.8	934.2	944.3	957.7	962.7	967.7	967.7
60°	797.0	853.9	889.0	912.5	922.5	930.9	939.3	944.3	947.6	944.3
62.5°	810.3	850.5	877.3	892.4	899.1	904.1	914.1	922.5	922.5	927.5
65°	803.6	832.1	853.9	868.9	875.6	882.3	895.7	902.4	910.8	909.1
67.5°	781.9	808.7	825.4	845.5	853.9	860.6	877.3	885.7	894.1	894.1
70°	748.4	771.8	793.6	815.4	823.7	833.8	852.2	865.6	872.3	877.3
72.5°	704.9	730.0	758.4	790.3	805.3	815.4	837.1	852.2	862.2	863.9
75°	663.0	696.5	736.7	771.8	785.2	798.6	822.1	837.1	843.8	848.9
77.5°	624.5	664.7	708.2	746.7	761.8	776.9	800.3	817.0	827.1	828.8
80°	587.7	634.5	678.1	719.9	736.7	750.1	775.2	793.6	803.6	808.7
82.5°	550.8	602.7	647.9	691.5	708.2	725.0	750.1	768.5	780.2	781.9
85°	517.3	565.9	612.8	654.6	669.7	689.8	716.6	735.0	745.0	748.4
87.5°	477.2	524.0	569.3	609.4	626.2	644.6	671.4	691.5	699.8	704.9
90°	428.6	475.5	515.7	554.2	570.9	586.0	609.4	631.2	641.2	646.3
92.5°	370.0	411.9	452.1	483.9	498.9	510.7	537.4	554.2	560.9	565.9
95°	294.7	324.8	360.0	388.4	401.8	411.9	430.3	447.0	457.1	460.4
97.5°	209.3	232.7	249.5	271.2	276.3	288.0	303.0	313.1	319.8	318.1
100°	144.0	159.1	169.1	177.5	180.8	187.5	195.9	197.6	204.3	202.6
102.5°	97.1	102.1	107.2	112.2	113.9	115.5	120.5	118.9	122.2	123.9
105°	65.3	67.0	68.6	70.3	70.3	70.3	70.3	70.3	70.3	68.6
107.5°	46.9	45.2	45.2	45.2	43.5	43.5	41.9	41.9	41.9	40.2
110°	36.8	35.2	33.5	31.8	30.1	30.1	28.5	28.5	26.8	26.8



TEST NUMBER: P237768

CATALOG NUMBER: 2VRVT2-LD5-5-DR-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	30.1	28.5	26.8	25.1	25.1	23.4	23.4	21.8	20.1	20.1
115°	26.8	25.1	25.1	23.4	21.8	21.8	20.1	18.4	18.4	16.7
117.5°	25.1	23.4	21.8	20.1	20.1	20.1	18.4	16.7	16.7	16.7
120°	21.8	21.8	20.1	20.1	18.4	18.4	16.7	16.7	15.1	15.1
122.5°	20.1	20.1	18.4	18.4	16.7	16.7	15.1	15.1	15.1	13.4
125°	16.7	16.7	16.7	16.7	15.1	15.1	15.1	13.4	13.4	13.4
127.5°	15.1	15.1	15.1	15.1	13.4	13.4	13.4	13.4	11.7	11.7
130°	11.7	13.4	13.4	13.4	13.4	11.7	11.7	11.7	11.7	11.7
132.5°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
135°	6.7	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
137.5°	5.0	5.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
140°	1.7	3.3	3.3	3.3	5.0	5.0	5.0	5.0	3.3	3.3
142.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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)