

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: P237777

Luminaire Tested: **2VRVT2-LD5-5-DR100-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VRVT2-LD5-5-DR100-W-UNV-L840-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% 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: 4549.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.56 / 1.56
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

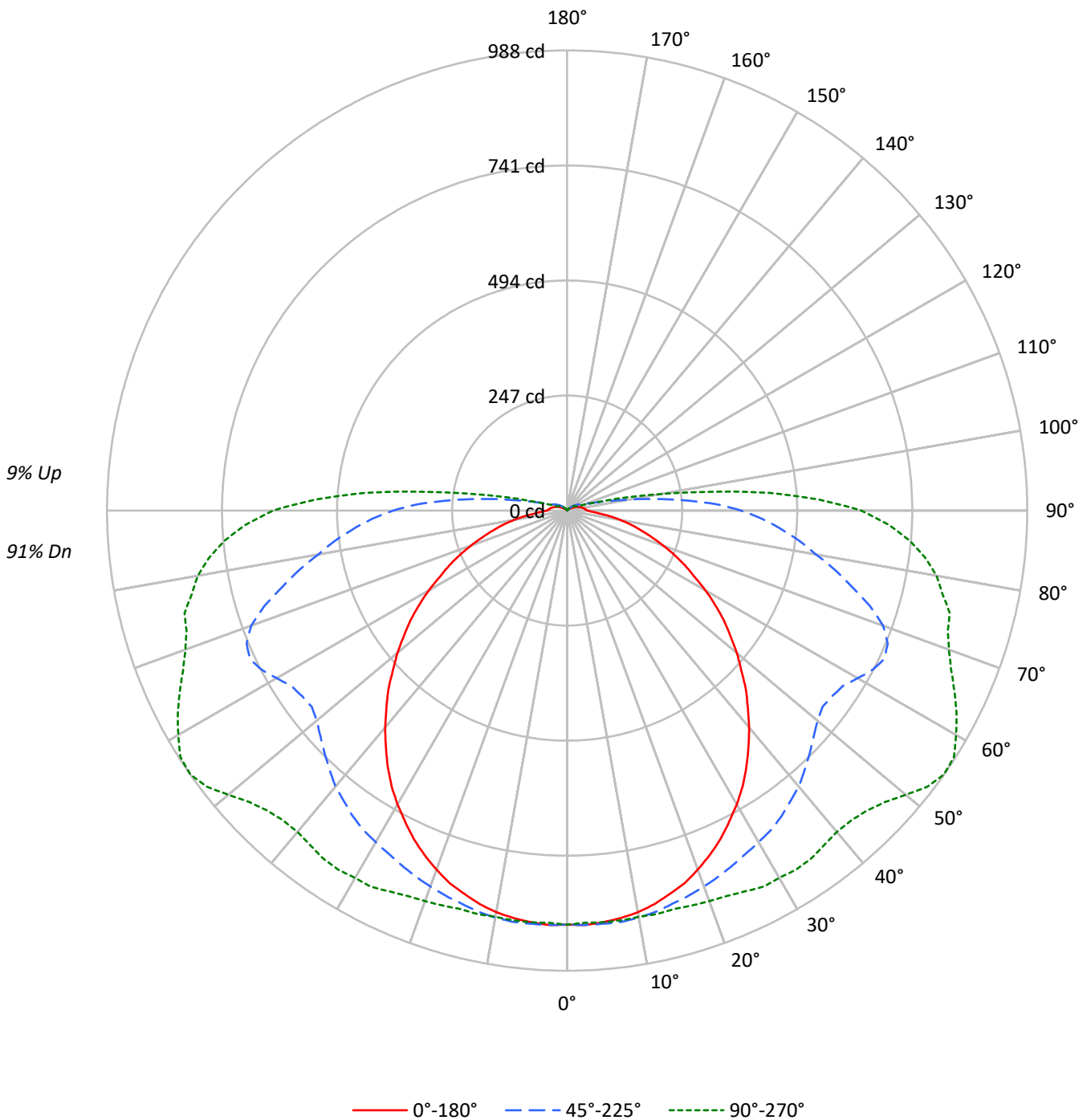
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91
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°	9186	9186	9186
5°	9140	9008	8943
10°	9060	8854	8777
15°	8924	8670	8697
20°	8765	8536	8751
25°	8557	8433	8904
30°	8305	8392	9113
35°	8019	8397	9332
40°	7682	8378	9494
45°	7339	8330	9981
50°	6977	8364	10921
55°	6632	8831	12055
60°	6230	9878	12634
65°	5835	11298	13081
70°	5432	12090	13755
75°	5045	12084	15130
80°	4728	12145	16577
85°	4248	12622	18198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	1.9
10°-20°	246.9	5.4
20°-30°	388.9	8.5
30°-40°	498.9	11.0
40°-50°	567.2	12.5
50°-60°	627.3	13.8
60°-70°	650.5	14.3
70°-80°	606.2	13.3
80°-90°	488.7	10.7
90°-100°	272.0	6.0
100°-110°	73.1	1.6
110°-120°	25.5	0.6
120°-130°	13.5	0.3
130°-140°	5.1	0.1
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	720.5	15.8
0°-40°	1219.5	26.8
0°-60°	2414.0	53.1
0°-90°	4159.4	91.4
90°-120°	370.5	8.1
90°-150°	389.6	8.6
90°-180°	390.0	8.6
0°-180°	4549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	887	889	891	892	887	84
15°	852	860	874	887	886	240
25°	778	798	840	889	902	358
35°	671	710	802	886	912	419
45°	542	599	737	859	911	418
55°	410	489	695	926	988	366
65°	280	395	752	889	917	277
75°	164	382	633	782	850	175
85°	69	268	462	665	738	67
90°	44	198	373	554	631	25
95°	38	131	251	375	435	31
105°	28	45	69	77	75	30
115°	17	22	32	27	22	17
125°	7	8	20	18	17	7
135°	3	2	7	10	10	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°	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0
2.5°	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6	890.6
5°	887.3	889.0	889.0	889.0	889.0	889.0	890.6	890.6	890.6	892.3	890.6
7.5°	882.3	883.9	883.9	883.9	885.6	885.6	887.3	887.3	889.0	890.6	890.6
10°	875.6	877.2	877.2	878.9	878.9	880.6	880.6	883.9	883.9	885.6	887.3
12.5°	865.5	865.5	867.2	870.5	872.2	872.2	873.9	875.6	878.9	880.6	882.3
15°	852.1	852.1	855.5	858.8	860.5	860.5	862.2	863.8	870.5	872.2	873.9
17.5°	838.7	837.1	840.4	843.8	845.4	847.1	848.8	853.8	857.1	862.2	867.2
20°	820.3	820.3	823.7	828.7	832.0	833.7	837.1	842.1	848.8	853.8	858.8
22.5°	800.2	801.9	803.6	808.6	813.6	817.0	818.6	825.3	833.7	840.4	850.4
25°	778.5	780.1	783.5	788.5	795.2	798.5	801.9	810.3	822.0	828.7	840.4
27.5°	753.3	755.0	760.0	765.1	773.4	778.5	783.5	791.9	803.6	815.3	830.4
30°	728.2	729.9	734.9	743.3	751.7	756.7	763.4	775.1	790.2	803.6	822.0
32.5°	701.5	703.1	708.1	719.9	728.2	734.9	740.0	755.0	771.8	791.9	813.6
35°	671.3	673.0	679.7	689.7	703.1	709.8	716.5	731.6	755.0	778.5	801.9
37.5°	639.5	642.9	651.2	659.6	674.7	681.4	691.4	711.5	734.9	761.7	786.8
40°	607.7	611.0	619.4	631.1	646.2	656.3	666.3	691.4	716.5	745.0	773.4
42.5°	574.2	579.2	587.6	601.0	617.7	627.8	639.5	668.0	698.1	726.6	755.0
45°	542.4	545.8	555.8	570.9	587.6	599.3	614.4	644.5	674.7	706.5	736.6
47.5°	507.3	512.3	522.3	540.7	560.8	574.2	587.6	621.1	652.9	684.7	718.2
50°	475.4	478.8	490.5	507.3	530.7	545.8	560.8	594.3	629.5	664.6	701.5
52.5°	442.0	445.3	458.7	475.4	500.6	517.3	532.4	567.5	604.4	646.2	691.4
55°	410.2	413.5	426.9	443.6	472.1	488.8	505.6	544.1	585.9	634.5	694.8
57.5°	376.7	378.3	393.4	413.5	443.6	460.4	477.1	520.6	572.5	632.8	701.5
60°	343.2	346.5	359.9	383.4	416.9	435.3	455.4	503.9	567.5	641.2	719.9
62.5°	308.0	314.7	329.8	354.9	391.7	413.5	436.9	495.5	570.9	657.9	740.0
65°	279.6	284.6	299.7	329.8	370.0	395.1	423.5	497.2	585.9	676.3	751.7
67.5°	249.4	256.1	274.6	306.4	354.9	385.0	420.2	507.3	602.7	686.4	745.0
70°	219.3	226.0	249.4	287.9	343.2	380.0	421.9	517.3	606.0	673.0	721.5
72.5°	190.8	202.6	227.7	274.6	338.2	380.0	426.9	517.3	592.6	644.5	681.4
75°	164.1	175.8	209.3	262.8	336.5	381.7	423.5	502.2	559.2	602.7	632.8
77.5°	140.6	154.0	194.2	252.8	329.8	370.0	406.8	468.8	514.0	552.5	589.3
80°	115.5	132.3	177.5	241.1	309.7	343.2	371.7	423.5	465.4	503.9	542.4
82.5°	92.1	112.2	160.7	221.0	279.6	308.0	331.5	376.7	416.9	457.0	503.9
85°	68.6	92.1	139.0	194.2	242.7	267.9	289.6	331.5	370.0	415.2	462.1
87.5°	51.9	73.7	117.2	165.7	209.3	231.0	249.4	287.9	328.1	371.7	420.2
90°	43.5	60.3	98.8	139.0	179.1	197.5	214.3	252.8	289.6	328.1	373.3
92.5°	40.2	50.2	82.0	115.5	149.0	164.1	180.8	212.6	244.4	281.3	319.8
95°	38.5	43.5	65.3	92.1	118.9	130.6	144.0	167.4	192.5	222.7	251.1
97.5°	36.8	38.5	51.9	72.0	92.1	100.4	110.5	130.6	149.0	167.4	189.2
100°	33.5	35.2	41.9	55.2	70.3	78.7	83.7	97.1	110.5	122.2	135.6
102.5°	31.8	31.8	35.2	43.5	53.6	58.6	63.6	73.7	82.0	90.4	95.4
105°	28.5	28.5	30.1	35.2	41.9	45.2	48.5	55.2	60.3	65.3	68.6
107.5°	25.1	25.1	25.1	30.1	35.2	36.8	40.2	43.5	48.5	50.2	51.9
110°	21.8	21.8	21.8	25.1	28.5	30.1	33.5	36.8	40.2	40.2	41.9



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CATALOG NUMBER: 2VRVT2-LD5-5-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	20.1	18.4	18.4	20.1	25.1	26.8	28.5	31.8	33.5	35.2	35.2
115°	16.7	16.7	15.1	16.7	20.1	21.8	23.4	26.8	30.1	31.8	31.8
117.5°	13.4	13.4	13.4	13.4	16.7	18.4	20.1	23.4	26.8	28.5	28.5
120°	11.7	11.7	10.0	10.0	13.4	15.1	16.7	20.1	23.4	25.1	25.1
122.5°	8.4	8.4	8.4	8.4	10.0	11.7	13.4	16.7	20.1	21.8	21.8
125°	6.7	6.7	6.7	6.7	6.7	8.4	10.0	13.4	15.1	18.4	20.1
127.5°	6.7	5.0	5.0	5.0	5.0	5.0	6.7	10.0	13.4	15.1	16.7
130°	5.0	5.0	5.0	3.3	3.3	3.3	5.0	6.7	10.0	11.7	13.4
132.5°	3.3	3.3	3.3	3.3	3.3	1.7	3.3	5.0	6.7	8.4	10.0
135°	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7	5.0	5.0	6.7
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	0.0	1.7	1.7	3.3	5.0
140°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7
142.5°	1.7	1.7	1.7	1.7	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°	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0	889.0
2.5°	889.0	889.0	889.0	889.0	889.0	887.3	887.3	887.3	885.6	885.6
5°	892.3	892.3	892.3	892.3	892.3	890.6	890.6	889.0	889.0	887.3
7.5°	890.6	892.3	890.6	890.6	890.6	890.6	889.0	889.0	887.3	887.3
10°	887.3	889.0	889.0	890.6	890.6	890.6	889.0	889.0	885.6	885.6
12.5°	883.9	885.6	885.6	889.0	889.0	889.0	887.3	887.3	887.3	887.3
15°	877.2	880.6	885.6	887.3	887.3	887.3	885.6	885.6	885.6	885.6
17.5°	870.5	873.9	878.9	882.3	883.9	885.6	885.6	887.3	889.0	889.0
20°	863.8	870.5	875.6	880.6	882.3	883.9	887.3	890.6	892.3	892.3
22.5°	858.8	867.2	873.9	880.6	883.9	885.6	889.0	895.6	897.3	895.6
25°	852.1	865.5	873.9	885.6	889.0	892.3	895.6	900.7	902.3	902.3
27.5°	847.1	860.5	872.2	882.3	889.0	894.0	900.7	905.7	909.0	910.7
30°	838.7	857.1	872.2	885.6	890.6	895.6	905.7	910.7	912.4	910.7
32.5°	833.7	852.1	868.9	882.3	887.3	894.0	905.7	912.4	915.7	914.1
35°	823.7	845.4	863.8	880.6	885.6	892.3	902.3	910.7	912.4	912.4
37.5°	810.3	833.7	853.8	872.2	877.2	883.9	894.0	902.3	905.7	905.7
40°	798.5	820.3	842.1	860.5	867.2	873.9	885.6	897.3	902.3	900.7
42.5°	781.8	806.9	830.4	852.1	860.5	867.2	882.3	895.6	900.7	902.3
45°	765.1	793.5	820.3	845.4	858.8	868.9	887.3	904.0	912.4	910.7
47.5°	750.0	785.2	820.3	852.1	868.9	878.9	900.7	915.7	922.4	925.8
50°	741.6	786.8	828.7	862.2	878.9	892.3	917.4	934.2	944.2	949.2
52.5°	743.3	793.5	840.4	882.3	899.0	915.7	942.5	962.6	969.3	974.3
55°	753.3	810.3	862.2	907.4	925.8	940.8	964.3	976.0	986.0	987.7
57.5°	770.1	833.7	883.9	922.4	935.8	947.5	967.6	977.7	982.7	984.4
60°	793.5	850.4	890.6	924.1	932.5	942.5	955.9	962.6	962.6	964.3
62.5°	806.9	855.5	887.3	904.0	914.1	920.8	932.5	939.2	944.2	942.5
65°	803.6	842.1	863.8	883.9	889.0	895.6	902.3	914.1	914.1	917.4
67.5°	785.2	817.0	833.7	850.4	857.1	867.2	877.2	887.3	889.0	892.3
70°	753.3	778.5	796.9	817.0	823.7	833.7	848.8	863.8	868.9	872.2
72.5°	709.8	734.9	761.7	788.5	800.2	811.9	832.0	845.4	853.8	857.1
75°	664.6	696.4	731.6	765.1	781.8	796.9	815.3	837.1	842.1	850.4
77.5°	626.1	664.6	708.1	743.3	760.0	775.1	798.5	813.6	823.7	825.3
80°	587.6	629.5	674.7	714.8	733.3	748.3	775.1	791.9	805.2	805.2
82.5°	549.1	599.3	646.2	684.7	704.8	718.2	748.3	761.7	776.8	775.1
85°	510.6	562.5	607.7	646.2	664.6	681.4	708.1	726.6	738.3	738.3
87.5°	468.8	512.3	559.2	601.0	614.4	631.1	656.3	676.3	683.0	689.7
90°	418.5	460.4	505.6	539.1	554.1	570.9	596.0	614.4	624.4	631.1
92.5°	359.9	398.4	433.6	462.1	477.1	493.9	514.0	534.0	539.1	540.7
95°	282.9	311.4	343.2	370.0	375.0	391.7	408.5	426.9	435.3	435.3
97.5°	210.9	229.4	251.1	264.5	272.9	279.6	291.3	303.0	304.7	308.0
100°	149.0	159.0	170.8	180.8	184.2	189.2	195.9	202.6	202.6	202.6
102.5°	103.8	110.5	115.5	120.5	120.5	122.2	123.9	127.2	127.2	128.9
105°	72.0	75.3	75.3	75.3	77.0	77.0	75.3	77.0	78.7	75.3
107.5°	53.6	53.6	51.9	50.2	51.9	50.2	48.5	48.5	46.9	46.9
110°	41.9	40.2	38.5	38.5	36.8	36.8	35.2	33.5	31.8	33.5



TEST NUMBER: P237777

CATALOG NUMBER: 2VRVT2-LD5-5-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	35.2	33.5	31.8	30.1	30.1	28.5	28.5	26.8	25.1	25.1
115°	31.8	30.1	28.5	26.8	26.8	26.8	25.1	23.4	23.4	21.8
117.5°	28.5	28.5	26.8	25.1	25.1	23.4	23.4	21.8	21.8	20.1
120°	25.1	25.1	25.1	23.4	23.4	21.8	21.8	20.1	20.1	20.1
122.5°	23.4	23.4	21.8	21.8	21.8	20.1	20.1	18.4	18.4	18.4
125°	20.1	20.1	20.1	20.1	18.4	18.4	18.4	16.7	16.7	16.7
127.5°	16.7	16.7	18.4	16.7	16.7	16.7	16.7	16.7	15.1	15.1
130°	13.4	15.1	15.1	15.1	15.1	15.1	15.1	15.1	13.4	13.4
132.5°	11.7	11.7	11.7	13.4	13.4	13.4	13.4	11.7	11.7	11.7
135°	8.4	8.4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
137.5°	5.0	6.7	6.7	8.4	8.4	8.4	8.4	8.4	8.4	6.7
140°	3.3	3.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
142.5°	1.7	1.7	1.7	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)