

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: P237771

Luminaire Tested: **2VRVT2-LD5-3-DR100-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237771
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-LD5-3-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: 2717.1 lumens
Efficiency: N/A
Efficacy: 124.6 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

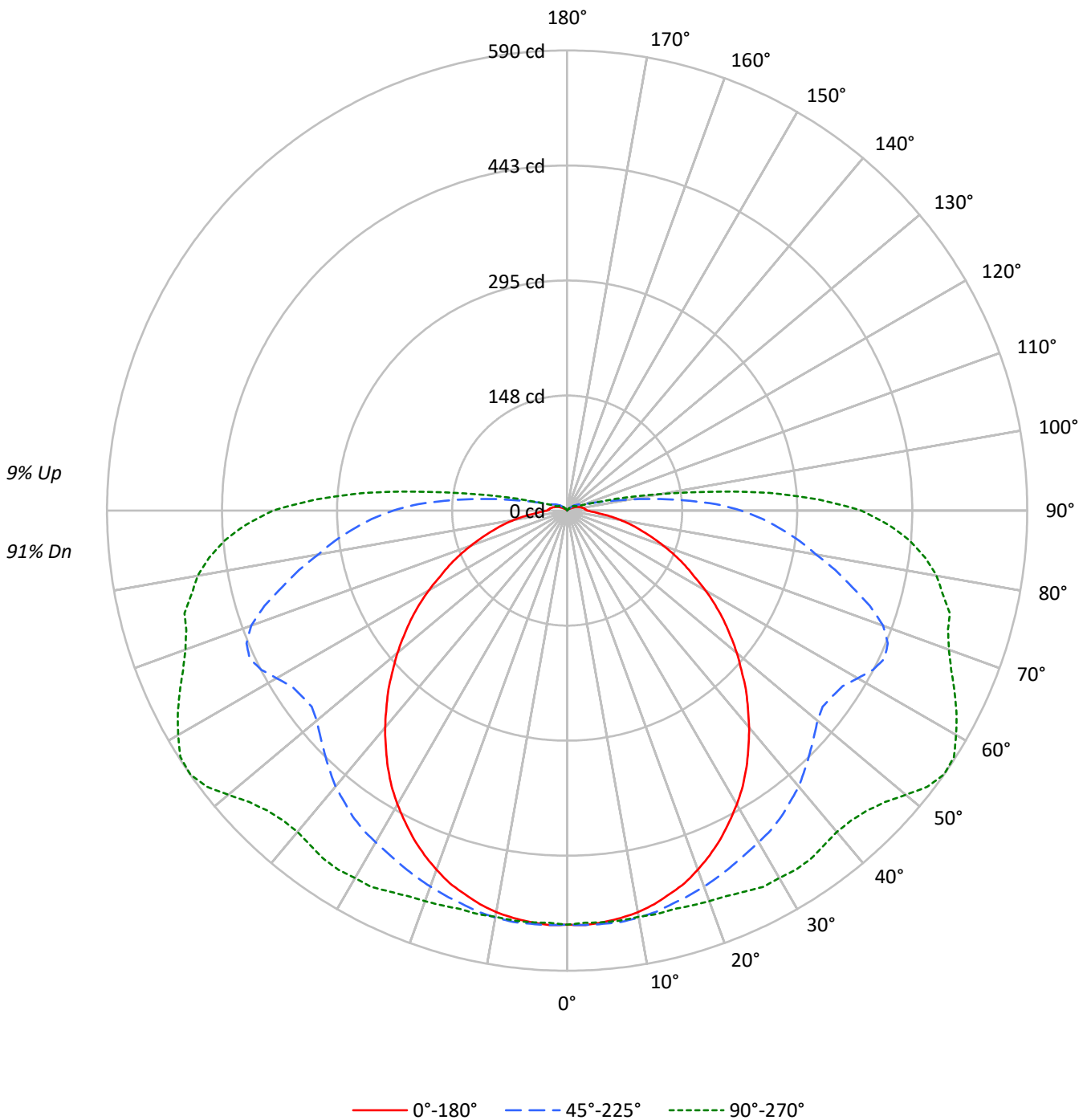
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5486	5486	5486
5°	5458	5380	5341
10°	5410	5288	5242
15°	5330	5178	5194
20°	5236	5098	5226
25°	5111	5037	5318
30°	4961	5013	5442
35°	4790	5016	5573
40°	4589	5005	5670
45°	4384	4976	5961
50°	4168	4996	6522
55°	3961	5275	7200
60°	3721	5900	7546
65°	3485	6749	7812
70°	3245	7222	8215
75°	3013	7218	9036
80°	2825	7255	9903
85°	2539	7539	10870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.6	1.9
10°-20°	147.4	5.4
20°-30°	232.3	8.5
30°-40°	298.0	11.0
40°-50°	338.8	12.5
50°-60°	374.7	13.8
60°-70°	388.5	14.3
70°-80°	362.1	13.3
80°-90°	291.9	10.7
90°-100°	162.5	6.0
100°-110°	43.6	1.6
110°-120°	15.2	0.6
120°-130°	8.0	0.3
130°-140°	3.1	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°	430.3	15.8
0°-40°	728.3	26.8
0°-60°	1441.8	53.1
0°-90°	2484.4	91.4
90°-120°	221.3	8.1
90°-150°	232.7	8.6
90°-180°	233.0	8.6
0°-180°	2717.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	530	531	532	533	530	50
15°	509	514	522	530	529	144
25°	465	477	502	531	539	214
35°	401	424	479	529	545	251
45°	324	358	440	513	544	250
55°	245	292	415	553	590	219
65°	167	236	449	531	548	165
75°	98	228	378	467	508	104
85°	41	160	276	397	441	40
90°	26	118	223	331	377	15
95°	23	78	150	224	260	18
105°	17	27	41	46	45	18
115°	10	13	19	16	13	10
125°	4	5	12	11	10	4
135°	2	1	4	6	6	1
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°	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9
2.5°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9
5°	529.9	530.9	530.9	530.9	530.9	530.9	531.9	531.9	531.9	532.9	531.9
7.5°	526.9	527.9	527.9	527.9	528.9	528.9	529.9	529.9	530.9	531.9	531.9
10°	522.9	523.9	523.9	524.9	524.9	525.9	525.9	527.9	527.9	528.9	529.9
12.5°	516.9	516.9	517.9	519.9	520.9	520.9	521.9	522.9	524.9	525.9	526.9
15°	508.9	508.9	510.9	512.9	513.9	513.9	514.9	515.9	519.9	520.9	521.9
17.5°	501.0	500.0	502.0	504.0	505.0	506.0	506.9	509.9	511.9	514.9	517.9
20°	490.0	490.0	492.0	495.0	497.0	498.0	500.0	503.0	506.9	509.9	512.9
22.5°	478.0	479.0	480.0	483.0	486.0	488.0	489.0	493.0	498.0	502.0	507.9
25°	465.0	466.0	468.0	471.0	475.0	477.0	479.0	484.0	491.0	495.0	502.0
27.5°	450.0	451.0	454.0	457.0	462.0	465.0	468.0	473.0	480.0	487.0	496.0
30°	435.0	436.0	439.0	444.0	449.0	452.0	456.0	463.0	472.0	480.0	491.0
32.5°	419.0	420.0	423.0	430.0	435.0	439.0	442.0	451.0	461.0	473.0	486.0
35°	401.0	402.0	406.0	412.0	420.0	424.0	428.0	437.0	451.0	465.0	479.0
37.5°	382.0	384.0	389.0	394.0	403.0	407.0	413.0	425.0	439.0	455.0	470.0
40°	363.0	365.0	370.0	377.0	386.0	392.0	398.0	413.0	428.0	445.0	462.0
42.5°	343.0	346.0	351.0	359.0	369.0	375.0	382.0	399.0	417.0	434.0	451.0
45°	324.0	326.0	332.0	341.0	351.0	358.0	367.0	385.0	403.0	422.0	440.0
47.5°	303.0	306.0	312.0	323.0	335.0	343.0	351.0	371.0	390.0	409.0	429.0
50°	284.0	286.0	293.0	303.0	317.0	326.0	335.0	355.0	376.0	397.0	419.0
52.5°	264.0	266.0	274.0	284.0	299.0	309.0	318.0	339.0	361.0	386.0	413.0
55°	245.0	247.0	255.0	265.0	282.0	292.0	302.0	325.0	350.0	379.0	415.0
57.5°	225.0	226.0	235.0	247.0	265.0	275.0	285.0	311.0	342.0	378.0	419.0
60°	205.0	207.0	215.0	229.0	249.0	260.0	272.0	301.0	339.0	383.0	430.0
62.5°	184.0	188.0	197.0	212.0	234.0	247.0	261.0	296.0	341.0	393.0	442.0
65°	167.0	170.0	179.0	197.0	221.0	236.0	253.0	297.0	350.0	404.0	449.0
67.5°	149.0	153.0	164.0	183.0	212.0	230.0	251.0	303.0	360.0	410.0	445.0
70°	131.0	135.0	149.0	172.0	205.0	227.0	252.0	309.0	362.0	402.0	431.0
72.5°	114.0	121.0	136.0	164.0	202.0	227.0	255.0	309.0	354.0	385.0	407.0
75°	98.0	105.0	125.0	157.0	201.0	228.0	253.0	300.0	334.0	360.0	378.0
77.5°	84.0	92.0	116.0	151.0	197.0	221.0	243.0	280.0	307.0	330.0	352.0
80°	69.0	79.0	106.0	144.0	185.0	205.0	222.0	253.0	278.0	301.0	324.0
82.5°	55.0	67.0	96.0	132.0	167.0	184.0	198.0	225.0	249.0	273.0	301.0
85°	41.0	55.0	83.0	116.0	145.0	160.0	173.0	198.0	221.0	248.0	276.0
87.5°	31.0	44.0	70.0	99.0	125.0	138.0	149.0	172.0	196.0	222.0	251.0
90°	26.0	36.0	59.0	83.0	107.0	118.0	128.0	151.0	173.0	196.0	223.0
92.5°	24.0	30.0	49.0	69.0	89.0	98.0	108.0	127.0	146.0	168.0	191.0
95°	23.0	26.0	39.0	55.0	71.0	78.0	86.0	100.0	115.0	133.0	150.0
97.5°	22.0	23.0	31.0	43.0	55.0	60.0	66.0	78.0	89.0	100.0	113.0
100°	20.0	21.0	25.0	33.0	42.0	47.0	50.0	58.0	66.0	73.0	81.0
102.5°	19.0	19.0	21.0	26.0	32.0	35.0	38.0	44.0	49.0	54.0	57.0
105°	17.0	17.0	18.0	21.0	25.0	27.0	29.0	33.0	36.0	39.0	41.0
107.5°	15.0	15.0	15.0	18.0	21.0	22.0	24.0	26.0	29.0	30.0	31.0
110°	13.0	13.0	13.0	15.0	17.0	18.0	20.0	22.0	24.0	24.0	25.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	12.0	11.0	11.0	12.0	15.0	16.0	17.0	19.0	20.0	21.0	21.0
115°	10.0	10.0	9.0	10.0	12.0	13.0	14.0	16.0	18.0	19.0	19.0
117.5°	8.0	8.0	8.0	8.0	10.0	11.0	12.0	14.0	16.0	17.0	17.0
120°	7.0	7.0	6.0	6.0	8.0	9.0	10.0	12.0	14.0	15.0	15.0
122.5°	5.0	5.0	5.0	5.0	6.0	7.0	8.0	10.0	12.0	13.0	13.0
125°	4.0	4.0	4.0	4.0	4.0	5.0	6.0	8.0	9.0	11.0	12.0
127.5°	4.0	3.0	3.0	3.0	3.0	3.0	4.0	6.0	8.0	9.0	10.0
130°	3.0	3.0	3.0	2.0	2.0	2.0	3.0	4.0	6.0	7.0	8.0
132.5°	2.0	2.0	2.0	2.0	2.0	1.0	2.0	3.0	4.0	5.0	6.0
135°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	3.0	3.0	4.0
137.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	2.0	3.0
140°	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	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°	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9	530.9
2.5°	530.9	530.9	530.9	530.9	530.9	529.9	529.9	529.9	528.9	528.9
5°	532.9	532.9	532.9	532.9	532.9	531.9	531.9	530.9	530.9	529.9
7.5°	531.9	532.9	531.9	531.9	531.9	531.9	530.9	530.9	529.9	529.9
10°	529.9	530.9	530.9	531.9	531.9	531.9	530.9	530.9	528.9	528.9
12.5°	527.9	528.9	528.9	530.9	530.9	530.9	529.9	529.9	529.9	529.9
15°	523.9	525.9	528.9	529.9	529.9	529.9	528.9	528.9	528.9	528.9
17.5°	519.9	521.9	524.9	526.9	527.9	528.9	528.9	529.9	530.9	530.9
20°	515.9	519.9	522.9	525.9	526.9	527.9	529.9	531.9	532.9	532.9
22.5°	512.9	517.9	521.9	525.9	527.9	528.9	530.9	534.9	535.9	534.9
25°	508.9	516.9	521.9	528.9	530.9	532.9	534.9	537.9	538.9	538.9
27.5°	506.0	513.9	520.9	526.9	530.9	533.9	537.9	540.9	542.9	543.9
30°	501.0	511.9	520.9	528.9	531.9	534.9	540.9	543.9	544.9	543.9
32.5°	498.0	508.9	518.9	526.9	529.9	533.9	540.9	544.9	546.9	545.9
35°	492.0	505.0	515.9	525.9	528.9	532.9	538.9	543.9	544.9	544.9
37.5°	484.0	498.0	509.9	520.9	523.9	527.9	533.9	538.9	540.9	540.9
40°	477.0	490.0	503.0	513.9	517.9	521.9	528.9	535.9	538.9	537.9
42.5°	467.0	482.0	496.0	508.9	513.9	517.9	526.9	534.9	537.9	538.9
45°	457.0	474.0	490.0	505.0	512.9	518.9	529.9	539.9	544.9	543.9
47.5°	448.0	469.0	490.0	508.9	518.9	524.9	537.9	546.9	550.9	552.9
50°	443.0	470.0	495.0	514.9	524.9	532.9	547.9	557.9	563.9	566.9
52.5°	444.0	474.0	502.0	526.9	536.9	546.9	562.9	574.9	578.9	581.9
55°	450.0	484.0	514.9	541.9	552.9	561.9	575.9	582.9	588.9	589.9
57.5°	460.0	498.0	527.9	550.9	558.9	565.9	577.9	583.9	586.9	587.9
60°	474.0	507.9	531.9	551.9	556.9	562.9	570.9	574.9	574.9	575.9
62.5°	482.0	510.9	529.9	539.9	545.9	549.9	556.9	560.9	563.9	562.9
65°	480.0	503.0	515.9	527.9	530.9	534.9	538.9	545.9	545.9	547.9
67.5°	469.0	488.0	498.0	507.9	511.9	517.9	523.9	529.9	530.9	532.9
70°	450.0	465.0	476.0	488.0	492.0	498.0	506.9	515.9	518.9	520.9
72.5°	424.0	439.0	455.0	471.0	478.0	485.0	497.0	505.0	509.9	511.9
75°	397.0	416.0	437.0	457.0	467.0	476.0	487.0	500.0	503.0	507.9
77.5°	374.0	397.0	423.0	444.0	454.0	463.0	477.0	486.0	492.0	493.0
80°	351.0	376.0	403.0	427.0	438.0	447.0	463.0	473.0	481.0	481.0
82.5°	328.0	358.0	386.0	409.0	421.0	429.0	447.0	455.0	464.0	463.0
85°	305.0	336.0	363.0	386.0	397.0	407.0	423.0	434.0	441.0	441.0
87.5°	280.0	306.0	334.0	359.0	367.0	377.0	392.0	404.0	408.0	412.0
90°	250.0	275.0	302.0	322.0	331.0	341.0	356.0	367.0	373.0	377.0
92.5°	215.0	238.0	259.0	276.0	285.0	295.0	307.0	319.0	322.0	323.0
95°	169.0	186.0	205.0	221.0	224.0	234.0	244.0	255.0	260.0	260.0
97.5°	126.0	137.0	150.0	158.0	163.0	167.0	174.0	181.0	182.0	184.0
100°	89.0	95.0	102.0	108.0	110.0	113.0	117.0	121.0	121.0	121.0
102.5°	62.0	66.0	69.0	72.0	72.0	73.0	74.0	76.0	76.0	77.0
105°	43.0	45.0	45.0	45.0	46.0	46.0	45.0	46.0	47.0	45.0
107.5°	32.0	32.0	31.0	30.0	31.0	30.0	29.0	29.0	28.0	28.0
110°	25.0	24.0	23.0	23.0	22.0	22.0	21.0	20.0	19.0	20.0



TEST NUMBER: P237771

CATALOG NUMBER: 2VRVT2-LD5-3-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	21.0	20.0	19.0	18.0	18.0	17.0	17.0	16.0	15.0	15.0
115°	19.0	18.0	17.0	16.0	16.0	16.0	15.0	14.0	14.0	13.0
117.5°	17.0	17.0	16.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0
120°	15.0	15.0	15.0	14.0	14.0	13.0	13.0	12.0	12.0	12.0
122.5°	14.0	14.0	13.0	13.0	13.0	12.0	12.0	11.0	11.0	11.0
125°	12.0	12.0	12.0	12.0	11.0	11.0	11.0	10.0	10.0	10.0
127.5°	10.0	10.0	11.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0
130°	8.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.0	8.0
132.5°	7.0	7.0	7.0	8.0	8.0	8.0	8.0	7.0	7.0	7.0
135°	5.0	5.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
137.5°	3.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0
140°	2.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
142.5°	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)