

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: P237774

Luminaire Tested: **2VT2-LD5-4-DR100-W-UNV-L840-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237774
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: 2VT2-LD5-4-DR100-W-UNV-L840-CD1-WL-U
Description: METALUX VT2 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: 3582.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

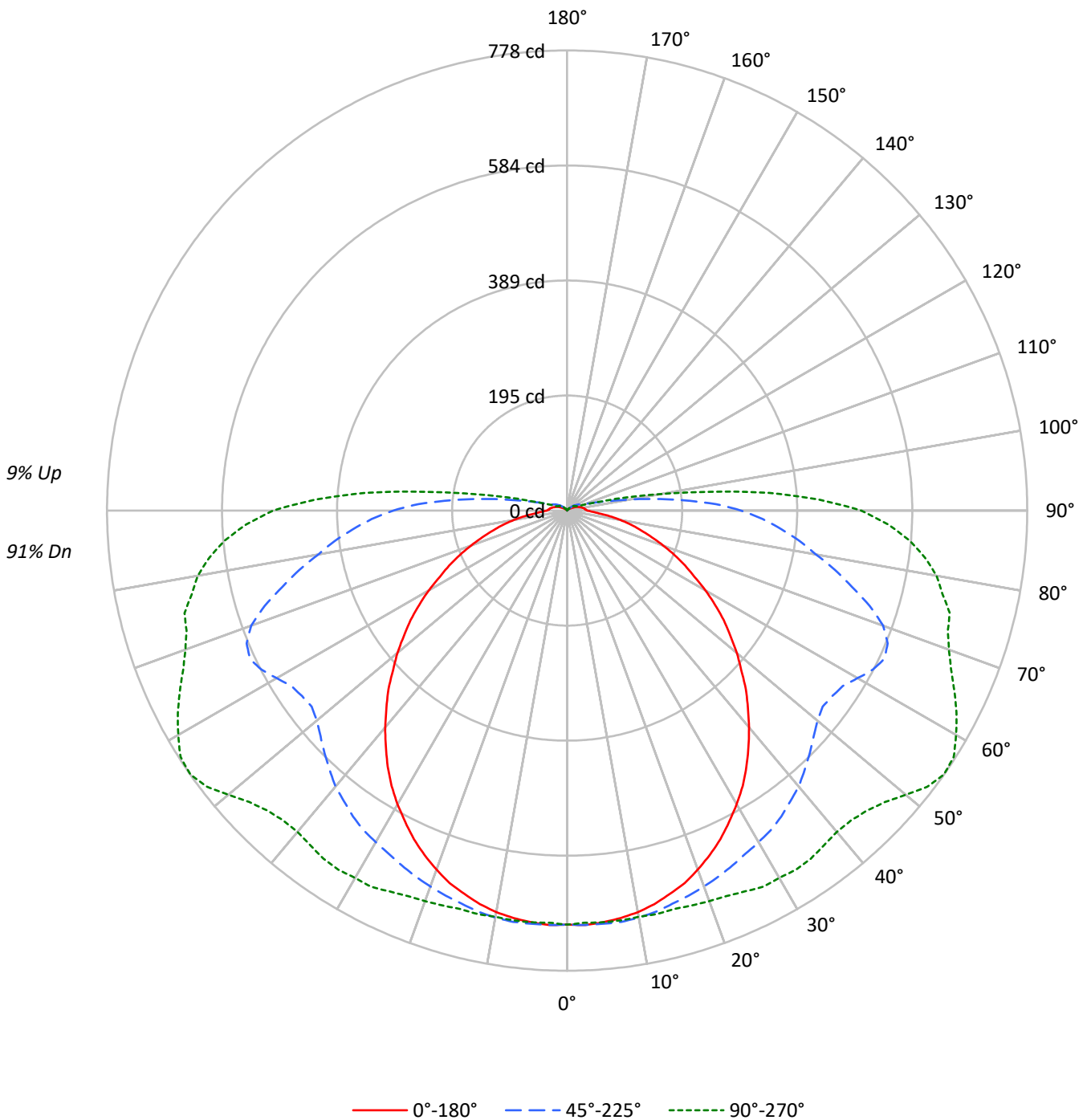
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7233	7233	7233
5°	7197	7093	7042
10°	7133	6972	6910
15°	7028	6827	6848
20°	6902	6722	6890
25°	6738	6641	7011
30°	6540	6608	7175
35°	6314	6612	7347
40°	6049	6597	7476
45°	5779	6559	7860
50°	5495	6585	8599
55°	5222	6954	9493
60°	4905	7777	9948
65°	4594	8896	10300
70°	4278	9521	10831
75°	3972	9515	11915
80°	3725	9564	13055
85°	3344	9937	14328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.9
10°-20°	194.4	5.4
20°-30°	306.2	8.5
30°-40°	392.9	11.0
40°-50°	446.7	12.5
50°-60°	493.9	13.8
60°-70°	512.2	14.3
70°-80°	477.3	13.3
80°-90°	384.8	10.7
90°-100°	214.2	6.0
100°-110°	57.5	1.6
110°-120°	20.0	0.6
120°-130°	10.6	0.3
130°-140°	4.0	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	567.4	15.8
0°-40°	960.2	26.8
0°-60°	1900.8	53.1
0°-90°	3275.2	91.4
90°-120°	291.8	8.1
90°-150°	306.8	8.6
90°-180°	307.0	8.6
0°-180°	3582.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	699	700	701	703	699	66
15°	671	678	688	699	697	189
25°	613	629	662	700	710	282
35°	529	559	631	697	718	330
45°	427	472	580	676	717	329
55°	323	385	547	729	778	288
65°	220	311	592	700	722	218
75°	129	301	498	616	670	138
85°	54	211	364	523	581	52
90°	34	156	294	436	497	19
95°	30	103	198	295	343	24
105°	22	36	54	61	59	24
115°	13	17	25	21	17	13
125°	5	7	16	14	13	5
135°	3	1	5	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°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2.5°	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3	701.3
5°	698.7	700.0	700.0	700.0	700.0	700.0	701.3	701.3	701.3	702.6	701.3
7.5°	694.7	696.0	696.0	696.0	697.3	697.3	698.7	698.7	700.0	701.3	701.3
10°	689.4	690.8	690.8	692.1	692.1	693.4	693.4	696.0	696.0	697.3	698.7
12.5°	681.5	681.5	682.8	685.5	686.8	686.8	688.1	689.4	692.1	693.4	694.7
15°	671.0	671.0	673.6	676.3	677.6	677.6	678.9	680.2	685.5	686.8	688.1
17.5°	660.4	659.1	661.8	664.4	665.7	667.0	668.3	672.3	674.9	678.9	682.8
20°	645.9	645.9	648.6	652.5	655.2	656.5	659.1	663.1	668.3	672.3	676.3
22.5°	630.1	631.4	632.8	636.7	640.7	643.3	644.6	649.9	656.5	661.8	669.7
25°	613.0	614.3	616.9	620.9	626.2	628.8	631.4	638.0	647.3	652.5	661.8
27.5°	593.2	594.5	598.5	602.4	609.0	613.0	616.9	623.5	632.8	642.0	653.8
30°	573.4	574.8	578.7	585.3	591.9	595.8	601.1	610.3	622.2	632.8	647.3
32.5°	552.3	553.7	557.6	566.8	573.4	578.7	582.7	594.5	607.7	623.5	640.7
35°	528.6	529.9	535.2	543.1	553.7	558.9	564.2	576.1	594.5	613.0	631.4
37.5°	503.6	506.2	512.8	519.4	531.2	536.5	544.4	560.3	578.7	599.8	619.6
40°	478.5	481.2	487.7	497.0	508.8	516.7	524.7	544.4	564.2	586.6	609.0
42.5°	452.2	456.1	462.7	473.2	486.4	494.3	503.6	526.0	549.7	572.1	594.5
45°	427.1	429.7	437.7	449.5	462.7	471.9	483.8	507.5	531.2	556.3	580.0
47.5°	399.4	403.4	411.3	425.8	441.6	452.2	462.7	489.1	514.1	539.2	565.5
50°	374.4	377.0	386.2	399.4	417.9	429.7	441.6	468.0	495.7	523.3	552.3
52.5°	348.0	350.7	361.2	374.4	394.2	407.3	419.2	446.9	475.9	508.8	544.4
55°	323.0	325.6	336.2	349.3	371.7	384.9	398.1	428.4	461.4	499.6	547.1
57.5°	296.6	297.9	309.8	325.6	349.3	362.5	375.7	410.0	450.8	498.3	552.3
60°	270.2	272.9	283.4	301.9	328.2	342.7	358.6	396.8	446.9	504.9	566.8
62.5°	242.6	247.8	259.7	279.5	308.5	325.6	344.1	390.2	449.5	518.1	582.7
65°	220.1	224.1	236.0	259.7	291.3	311.1	333.5	391.5	461.4	532.6	591.9
67.5°	196.4	201.7	216.2	241.2	279.5	303.2	330.9	399.4	474.6	540.5	586.6
70°	172.7	178.0	196.4	226.7	270.2	299.2	332.2	407.3	477.2	529.9	568.2
72.5°	150.3	159.5	179.3	216.2	266.3	299.2	336.2	407.3	466.7	507.5	536.5
75°	129.2	138.4	164.8	207.0	265.0	300.6	333.5	395.5	440.3	474.6	498.3
77.5°	110.7	121.3	152.9	199.1	259.7	291.3	320.3	369.1	404.7	435.0	464.0
80°	91.0	104.1	139.7	189.8	243.9	270.2	292.6	333.5	366.5	396.8	427.1
82.5°	72.5	88.3	126.6	174.0	220.1	242.6	261.0	296.6	328.2	359.9	396.8
85°	54.0	72.5	109.4	152.9	191.1	210.9	228.1	261.0	291.3	326.9	363.8
87.5°	40.9	58.0	92.3	130.5	164.8	181.9	196.4	226.7	258.4	292.6	330.9
90°	34.3	47.5	77.8	109.4	141.1	155.6	168.7	199.1	228.1	258.4	294.0
92.5°	31.6	39.5	64.6	91.0	117.3	129.2	142.4	167.4	192.5	221.5	251.8
95°	30.3	34.3	51.4	72.5	93.6	102.8	113.4	131.8	151.6	175.3	197.7
97.5°	29.0	30.3	40.9	56.7	72.5	79.1	87.0	102.8	117.3	131.8	149.0
100°	26.4	27.7	33.0	43.5	55.4	62.0	65.9	76.5	87.0	96.2	106.8
102.5°	25.0	25.0	27.7	34.3	42.2	46.1	50.1	58.0	64.6	71.2	75.1
105°	22.4	22.4	23.7	27.7	33.0	35.6	38.2	43.5	47.5	51.4	54.0
107.5°	19.8	19.8	19.8	23.7	27.7	29.0	31.6	34.3	38.2	39.5	40.9
110°	17.1	17.1	17.1	19.8	22.4	23.7	26.4	29.0	31.6	31.6	33.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	15.8	14.5	14.5	15.8	19.8	21.1	22.4	25.0	26.4	27.7	27.7
115°	13.2	13.2	11.9	13.2	15.8	17.1	18.5	21.1	23.7	25.0	25.0
117.5°	10.5	10.5	10.5	10.5	13.2	14.5	15.8	18.5	21.1	22.4	22.4
120°	9.2	9.2	7.9	7.9	10.5	11.9	13.2	15.8	18.5	19.8	19.8
122.5°	6.6	6.6	6.6	6.6	7.9	9.2	10.5	13.2	15.8	17.1	17.1
125°	5.3	5.3	5.3	5.3	5.3	6.6	7.9	10.5	11.9	14.5	15.8
127.5°	5.3	4.0	4.0	4.0	4.0	4.0	5.3	7.9	10.5	11.9	13.2
130°	4.0	4.0	4.0	2.6	2.6	2.6	4.0	5.3	7.9	9.2	10.5
132.5°	2.6	2.6	2.6	2.6	2.6	1.3	2.6	4.0	5.3	6.6	7.9
135°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	4.0	4.0	5.3
137.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1.3	1.3	2.6	4.0
140°	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	1.3	1.3
142.5°	1.3	1.3	1.3	1.3	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°	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0	700.0
2.5°	700.0	700.0	700.0	700.0	700.0	698.7	698.7	698.7	697.3	697.3
5°	702.6	702.6	702.6	702.6	702.6	701.3	701.3	700.0	700.0	698.7
7.5°	701.3	702.6	701.3	701.3	701.3	701.3	700.0	700.0	698.7	698.7
10°	698.7	700.0	700.0	701.3	701.3	701.3	700.0	700.0	697.3	697.3
12.5°	696.0	697.3	697.3	700.0	700.0	700.0	698.7	698.7	698.7	698.7
15°	690.8	693.4	697.3	698.7	698.7	698.7	697.3	697.3	697.3	697.3
17.5°	685.5	688.1	692.1	694.7	696.0	697.3	697.3	698.7	700.0	700.0
20°	680.2	685.5	689.4	693.4	694.7	696.0	698.7	701.3	702.6	702.6
22.5°	676.3	682.8	688.1	693.4	696.0	697.3	700.0	705.3	706.6	705.3
25°	671.0	681.5	688.1	697.3	700.0	702.6	705.3	709.2	710.5	710.5
27.5°	667.0	677.6	686.8	694.7	700.0	703.9	709.2	713.2	715.8	717.1
30°	660.4	674.9	686.8	697.3	701.3	705.3	713.2	717.1	718.4	717.1
32.5°	656.5	671.0	684.2	694.7	698.7	703.9	713.2	718.4	721.1	719.8
35°	648.6	665.7	680.2	693.4	697.3	702.6	710.5	717.1	718.4	718.4
37.5°	638.0	656.5	672.3	686.8	690.8	696.0	703.9	710.5	713.2	713.2
40°	628.8	645.9	663.1	677.6	682.8	688.1	697.3	706.6	710.5	709.2
42.5°	615.6	635.4	653.8	671.0	677.6	682.8	694.7	705.3	709.2	710.5
45°	602.4	624.8	645.9	665.7	676.3	684.2	698.7	711.8	718.4	717.1
47.5°	590.6	618.3	645.9	671.0	684.2	692.1	709.2	721.1	726.3	729.0
50°	584.0	619.6	652.5	678.9	692.1	702.6	722.4	735.6	743.5	747.4
52.5°	585.3	624.8	661.8	694.7	707.9	721.1	742.2	758.0	763.3	767.2
55°	593.2	638.0	678.9	714.5	729.0	740.8	759.3	768.5	776.4	777.8
57.5°	606.4	656.5	696.0	726.3	736.9	746.1	761.9	769.8	773.8	775.1
60°	624.8	669.7	701.3	727.7	734.3	742.2	752.7	758.0	758.0	759.3
62.5°	635.4	673.6	698.7	711.8	719.8	725.0	734.3	739.5	743.5	742.2
65°	632.8	663.1	680.2	696.0	700.0	705.3	710.5	719.8	719.8	722.4
67.5°	618.3	643.3	656.5	669.7	674.9	682.8	690.8	698.7	700.0	702.6
70°	593.2	613.0	627.5	643.3	648.6	656.5	668.3	680.2	684.2	686.8
72.5°	558.9	578.7	599.8	620.9	630.1	639.3	655.2	665.7	672.3	674.9
75°	523.3	548.4	576.1	602.4	615.6	627.5	642.0	659.1	663.1	669.7
77.5°	493.0	523.3	557.6	585.3	598.5	610.3	628.8	640.7	648.6	649.9
80°	462.7	495.7	531.2	562.9	577.4	589.3	610.3	623.5	634.1	634.1
82.5°	432.4	471.9	508.8	539.2	555.0	565.5	589.3	599.8	611.7	610.3
85°	402.1	442.9	478.5	508.8	523.3	536.5	557.6	572.1	581.3	581.3
87.5°	369.1	403.4	440.3	473.2	483.8	497.0	516.7	532.6	537.8	543.1
90°	329.6	362.5	398.1	424.5	436.3	449.5	469.3	483.8	491.7	497.0
92.5°	283.4	313.7	341.4	363.8	375.7	388.9	404.7	420.5	424.5	425.8
95°	222.8	245.2	270.2	291.3	295.3	308.5	321.6	336.2	342.7	342.7
97.5°	166.1	180.6	197.7	208.3	214.9	220.1	229.4	238.6	239.9	242.6
100°	117.3	125.2	134.5	142.4	145.0	149.0	154.2	159.5	159.5	159.5
102.5°	81.7	87.0	91.0	94.9	94.9	96.2	97.5	100.2	100.2	101.5
105°	56.7	59.3	59.3	59.3	60.6	60.6	59.3	60.6	62.0	59.3
107.5°	42.2	42.2	40.9	39.5	40.9	39.5	38.2	38.2	36.9	36.9
110°	33.0	31.6	30.3	30.3	29.0	29.0	27.7	26.4	25.0	26.4



TEST NUMBER: P237774

CATALOG NUMBER: 2VT2-LD5-4-DR100-W-UNV-L840-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	27.7	26.4	25.0	23.7	23.7	22.4	22.4	21.1	19.8	19.8
115°	25.0	23.7	22.4	21.1	21.1	21.1	19.8	18.5	18.5	17.1
117.5°	22.4	22.4	21.1	19.8	19.8	18.5	18.5	17.1	17.1	15.8
120°	19.8	19.8	19.8	18.5	18.5	17.1	17.1	15.8	15.8	15.8
122.5°	18.5	18.5	17.1	17.1	17.1	15.8	15.8	14.5	14.5	14.5
125°	15.8	15.8	15.8	15.8	14.5	14.5	14.5	13.2	13.2	13.2
127.5°	13.2	13.2	14.5	13.2	13.2	13.2	13.2	13.2	11.9	11.9
130°	10.5	11.9	11.9	11.9	11.9	11.9	11.9	11.9	10.5	10.5
132.5°	9.2	9.2	9.2	10.5	10.5	10.5	10.5	9.2	9.2	9.2
135°	6.6	6.6	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
137.5°	4.0	5.3	5.3	6.6	6.6	6.6	6.6	6.6	6.6	5.3
140°	2.6	2.6	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
142.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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)