

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: P237721

Luminaire Tested: **2VT2-LD5-2-DR-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237721
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-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (56) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 134.9 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

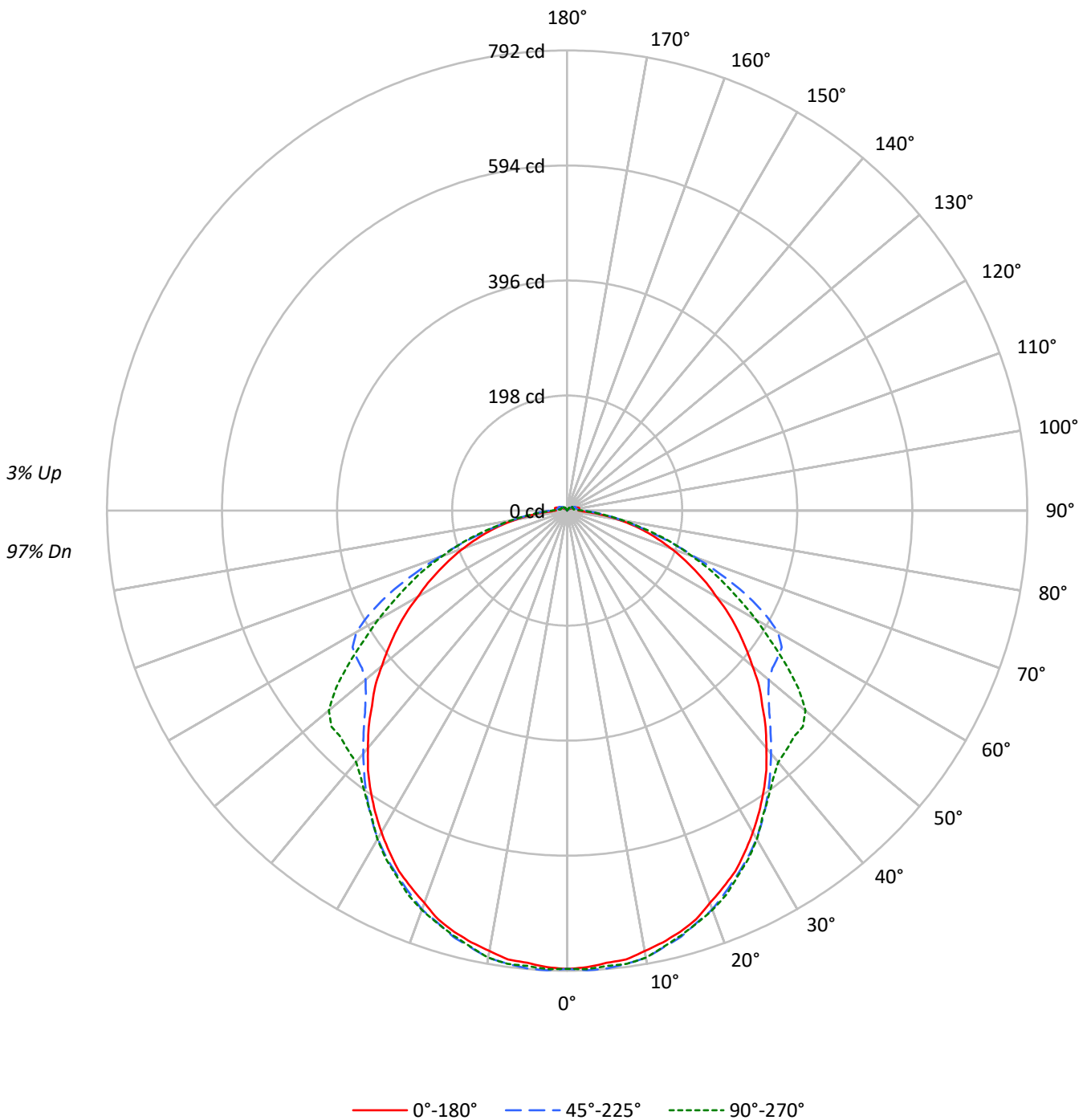
Input Watts (W): 17.38
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8151	8151	8151
5°	8049	7999	7929
10°	7964	7797	7744
15°	7861	7531	7434
20°	7681	7261	7174
25°	7528	6947	6852
30°	7291	6656	6535
35°	7042	6295	6170
40°	6741	5915	5957
45°	6427	5563	6042
50°	6116	5398	6160
55°	5795	5619	5590
60°	5389	5746	4917
65°	5067	5067	4278
70°	4701	3926	3594
75°	4301	2935	2848
80°	3647	2136	2030
85°	2694	1448	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.2
10°-20°	213.4	9.1
20°-30°	318.8	13.6
30°-40°	375.2	16.0
40°-50°	392.0	16.7
50°-60°	376.1	16.0
60°-70°	294.1	12.5
70°-80°	173.5	7.4
80°-90°	63.2	2.7
90°-100°	22.2	0.9
100°-110°	16.2	0.7
110°-120°	12.3	0.5
120°-130°	7.8	0.3
130°-140°	3.9	0.2
140°-150°	1.3	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	607.2	25.9
0°-40°	982.4	41.9
0°-60°	1750.5	74.6
0°-90°	2281.2	97.3
90°-120°	50.8	2.2
90°-150°	63.8	2.7
90°-180°	64.0	2.7
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	781	788	791	792	787	74
15°	751	758	759	759	757	211
25°	685	690	692	699	694	315
35°	590	593	601	603	603	368
45°	475	482	492	532	551	367
55°	358	364	442	474	458	320
65°	243	276	337	299	300	241
75°	140	194	154	159	160	148
85°	44	59	53	53	51	45
90°	19	31	29	28	25	11
95°	20	22	20	17	16	17
105°	19	18	16	13	11	20
115°	12	13	15	12	11	12
125°	5	5	11	11	11	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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	786.7	787.7	787.7	788.8	789.9	790.9	790.9	790.9	792.0	792.0	792.0
5°	781.4	782.4	784.6	785.6	786.7	787.7	787.7	787.7	789.9	789.9	790.9
7.5°	779.3	779.3	781.4	782.4	783.5	785.6	784.6	785.6	786.7	786.7	786.7
10°	769.7	768.7	767.6	768.7	770.8	770.8	770.8	775.0	778.2	779.3	781.4
12.5°	761.2	763.4	765.5	765.5	765.5	766.5	766.5	766.5	767.6	767.6	769.7
15°	750.6	752.8	754.9	754.9	755.9	758.1	758.1	760.2	759.1	759.1	759.1
17.5°	737.9	735.8	739.0	741.1	743.2	744.3	745.3	745.3	743.2	744.3	743.2
20°	718.8	719.9	720.9	723.1	726.2	725.2	726.2	728.4	728.4	728.4	730.5
22.5°	701.9	706.1	707.2	709.3	711.4	710.3	710.3	710.3	710.3	709.3	711.4
25°	684.9	686.0	688.1	691.3	690.2	690.2	689.1	688.1	690.2	689.1	692.3
27.5°	662.6	661.6	665.8	666.9	667.9	667.9	667.9	669.0	670.1	670.1	673.2
30°	639.3	641.4	643.5	645.7	644.6	644.6	645.7	645.7	646.7	648.8	652.0
32.5°	614.9	617.0	620.2	622.3	620.2	620.2	620.2	621.3	624.5	627.6	627.6
35°	589.5	590.5	594.8	593.7	593.7	592.7	593.7	595.8	599.0	601.1	601.1
37.5°	563.0	564.0	566.2	566.2	568.3	566.2	568.3	570.4	572.5	572.5	573.6
40°	533.3	535.4	539.6	539.6	540.7	539.6	540.7	542.8	543.9	542.8	546.0
42.5°	505.7	506.8	508.9	510.0	510.0	511.0	511.0	513.1	514.2	518.4	518.4
45°	475.0	478.2	479.2	479.2	480.3	482.4	483.5	484.5	485.6	488.8	491.9
47.5°	448.5	448.5	449.5	449.5	452.7	452.7	454.8	452.7	458.0	463.3	469.7
50°	416.7	419.8	419.8	417.7	420.9	422.0	423.0	424.1	430.4	438.9	452.7
52.5°	387.0	389.1	389.1	390.2	391.2	393.3	395.5	398.6	408.2	420.9	445.3
55°	358.4	360.5	359.4	360.5	361.5	363.7	365.8	375.3	388.0	413.5	442.1
57.5°	328.7	328.7	328.7	329.7	334.0	336.1	341.4	354.1	377.4	408.2	437.9
60°	296.9	301.1	300.0	303.2	308.5	312.8	320.2	339.3	371.1	402.9	418.8
62.5°	270.4	273.5	274.6	276.7	286.3	292.6	302.2	330.8	364.7	384.9	382.7
65°	242.8	243.8	246.0	253.4	266.1	275.7	289.4	322.3	347.7	346.7	337.1
67.5°	216.3	218.4	222.6	231.1	248.1	260.8	277.8	305.3	313.8	302.2	285.2
70°	189.8	193.0	198.3	208.9	231.1	246.0	261.9	273.5	267.2	250.2	234.3
72.5°	164.3	167.5	174.9	189.8	213.1	225.8	232.2	233.2	219.5	205.7	193.0
75°	139.9	143.1	151.6	168.6	187.7	194.0	195.1	187.7	174.9	162.2	153.7
77.5°	115.6	118.7	129.3	145.2	155.9	155.9	153.7	146.3	135.7	127.2	123.0
80°	89.1	93.3	103.9	115.6	119.8	118.7	116.6	110.3	101.8	96.5	95.4
82.5°	65.7	70.0	79.5	85.9	88.0	86.9	84.8	80.6	75.3	72.1	72.1
85°	43.5	47.7	54.1	58.3	60.4	59.4	59.4	56.2	55.1	53.0	53.0
87.5°	26.5	29.7	35.0	39.2	41.3	41.3	41.3	40.3	39.2	39.2	38.2
90°	19.1	21.2	25.4	28.6	30.7	30.7	30.7	30.7	30.7	29.7	28.6
92.5°	19.1	20.1	21.2	23.3	24.4	25.4	25.4	25.4	24.4	24.4	23.3
95°	20.1	20.1	21.2	21.2	21.2	22.3	22.3	22.3	21.2	21.2	20.1
97.5°	21.2	21.2	21.2	20.1	20.1	20.1	20.1	20.1	19.1	19.1	18.0
100°	21.2	21.2	20.1	20.1	19.1	19.1	19.1	19.1	18.0	18.0	17.0
102.5°	21.2	20.1	20.1	19.1	18.0	18.0	18.0	18.0	18.0	17.0	15.9
105°	19.1	19.1	19.1	18.0	18.0	18.0	17.0	17.0	17.0	17.0	15.9
107.5°	18.0	18.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	15.9
110°	15.9	15.9	14.8	14.8	14.8	15.9	15.9	15.9	15.9	15.9	15.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	13.8	13.8	12.7	12.7	13.8	13.8	13.8	14.8	14.8	15.9	14.8
115°	11.7	11.7	10.6	10.6	11.7	12.7	12.7	13.8	13.8	14.8	14.8
117.5°	9.5	9.5	9.5	9.5	10.6	10.6	10.6	11.7	12.7	13.8	13.8
120°	7.4	7.4	7.4	7.4	8.5	8.5	9.5	10.6	11.7	12.7	12.7
122.5°	6.4	6.4	6.4	5.3	6.4	7.4	7.4	9.5	10.6	10.6	11.7
125°	5.3	5.3	5.3	4.2	5.3	5.3	6.4	7.4	8.5	9.5	10.6
127.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.3	6.4	7.4	8.5	9.5
130°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.2	5.3	6.4	7.4
132.5°	3.2	3.2	3.2	2.1	2.1	2.1	2.1	3.2	4.2	5.3	6.4
135°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	4.2	5.3
137.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.1	2.1	2.1	3.2	4.2
140°	2.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	3.2
142.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
147.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	1.1
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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	792.0	792.0	792.0	792.0	790.9	790.9	789.9	789.9	789.9	789.9
5°	792.0	792.0	792.0	792.0	792.0	790.9	789.9	788.8	787.7	786.7
7.5°	786.7	788.8	789.9	789.9	789.9	788.8	787.7	786.7	786.7	786.7
10°	782.4	782.4	783.5	783.5	782.4	781.4	781.4	781.4	780.3	781.4
12.5°	770.8	770.8	770.8	769.7	769.7	769.7	768.7	768.7	768.7	768.7
15°	758.1	758.1	759.1	759.1	759.1	760.2	757.0	758.1	755.9	757.0
17.5°	744.3	745.3	744.3	743.2	744.3	745.3	744.3	743.2	743.2	744.3
20°	729.4	728.4	730.5	731.5	731.5	730.5	729.4	730.5	731.5	731.5
22.5°	711.4	713.5	715.6	716.7	716.7	715.6	715.6	714.6	715.6	715.6
25°	693.4	695.5	697.6	698.7	698.7	698.7	696.6	696.6	697.6	694.4
27.5°	675.4	675.4	677.5	677.5	674.3	674.3	675.4	676.4	674.3	675.4
30°	654.2	652.0	654.2	654.2	654.2	654.2	654.2	654.2	655.2	653.1
32.5°	626.6	627.6	629.8	630.8	630.8	630.8	627.6	629.8	628.7	625.5
35°	602.2	604.3	604.3	604.3	603.3	603.3	602.2	602.2	603.3	603.3
37.5°	574.6	574.6	575.7	577.8	577.8	578.9	582.1	583.1	584.2	582.1
40°	548.1	549.2	554.5	556.6	557.7	559.8	561.9	563.0	565.1	565.1
42.5°	520.6	526.9	532.2	535.4	538.6	543.9	551.3	556.6	556.6	558.7
45°	500.4	505.7	517.4	529.0	532.2	536.5	540.7	544.9	551.3	551.3
47.5°	480.3	497.2	510.0	522.7	530.1	534.3	544.9	548.1	552.4	550.2
50°	472.9	490.9	510.0	523.7	529.0	531.2	537.5	537.5	537.5	535.4
52.5°	469.7	490.9	506.8	512.1	512.1	511.0	507.8	504.7	505.7	501.5
55°	467.6	482.4	484.5	477.1	473.9	472.9	466.5	460.1	460.1	458.0
57.5°	452.7	453.8	444.2	432.6	431.5	428.3	420.9	418.8	418.8	413.5
60°	416.7	409.2	397.6	389.1	384.9	382.7	378.5	375.3	374.3	375.3
62.5°	373.2	361.5	347.7	341.4	338.2	336.1	337.1	337.1	337.1	336.1
65°	322.3	309.6	301.1	297.9	299.0	300.0	301.1	300.0	301.1	300.0
67.5°	271.4	264.0	259.8	260.8	262.9	260.8	264.0	264.0	262.9	266.1
70°	224.8	223.7	223.7	224.8	224.8	226.9	229.0	229.0	230.1	227.9
72.5°	186.6	187.7	188.7	191.9	191.9	193.0	193.0	194.0	193.0	195.1
75°	152.7	154.8	156.9	159.0	159.0	160.1	162.2	160.1	160.1	160.1
77.5°	121.9	125.1	126.2	128.3	128.3	128.3	129.3	128.3	128.3	126.2
80°	96.5	97.5	98.6	100.7	99.7	100.7	100.7	98.6	98.6	98.6
82.5°	73.2	74.2	75.3	74.2	74.2	74.2	75.3	73.2	72.1	72.1
85°	53.0	53.0	54.1	54.1	53.0	53.0	52.0	52.0	50.9	50.9
87.5°	38.2	38.2	38.2	38.2	37.1	37.1	37.1	36.0	36.0	36.0
90°	28.6	28.6	28.6	27.6	27.6	27.6	26.5	26.5	26.5	25.4
92.5°	23.3	22.3	22.3	21.2	21.2	21.2	20.1	20.1	20.1	20.1
95°	19.1	19.1	18.0	18.0	17.0	17.0	17.0	15.9	15.9	15.9
97.5°	17.0	15.9	15.9	14.8	14.8	14.8	13.8	13.8	13.8	13.8
100°	15.9	14.8	14.8	13.8	13.8	13.8	12.7	12.7	11.7	11.7
102.5°	15.9	14.8	13.8	12.7	12.7	12.7	11.7	11.7	11.7	11.7
105°	14.8	14.8	13.8	12.7	12.7	11.7	11.7	11.7	10.6	10.6
107.5°	14.8	14.8	13.8	12.7	12.7	11.7	11.7	10.6	10.6	10.6
110°	14.8	13.8	13.8	12.7	12.7	11.7	11.7	10.6	10.6	10.6



TEST NUMBER: P237721

CATALOG NUMBER: 2VT2-LD5-2-DR-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	14.8	13.8	12.7	12.7	12.7	11.7	11.7	10.6	10.6	10.6
115°	13.8	13.8	12.7	12.7	11.7	11.7	11.7	10.6	10.6	10.6
117.5°	13.8	12.7	12.7	11.7	11.7	11.7	11.7	10.6	10.6	10.6
120°	12.7	12.7	12.7	11.7	11.7	11.7	10.6	10.6	10.6	10.6
122.5°	11.7	11.7	11.7	11.7	11.7	11.7	10.6	10.6	10.6	10.6
125°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
127.5°	9.5	9.5	10.6	10.6	10.6	10.6	10.6	10.6	9.5	9.5
130°	8.5	8.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
132.5°	7.4	7.4	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
135°	6.4	6.4	7.4	7.4	7.4	7.4	8.5	8.5	8.5	8.5
137.5°	4.2	5.3	6.4	6.4	6.4	6.4	7.4	7.4	7.4	7.4
140°	3.2	4.2	4.2	5.3	5.3	5.3	6.4	6.4	6.4	6.4
142.5°	2.1	3.2	3.2	4.2	4.2	4.2	5.3	5.3	5.3	5.3
145°	2.1	2.1	2.1	3.2	3.2	3.2	3.2	4.2	4.2	4.2
147.5°	1.1	1.1	2.1	2.1	2.1	2.1	3.2	3.2	3.2	3.2
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)