

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: P237769

Luminaire Tested: **2VT2-LD5-5-DR-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237769
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: 2VT2-LD5-5-DR-W-UNV-L850-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
2FT FIXTURE
Light Source: (112) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4850.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

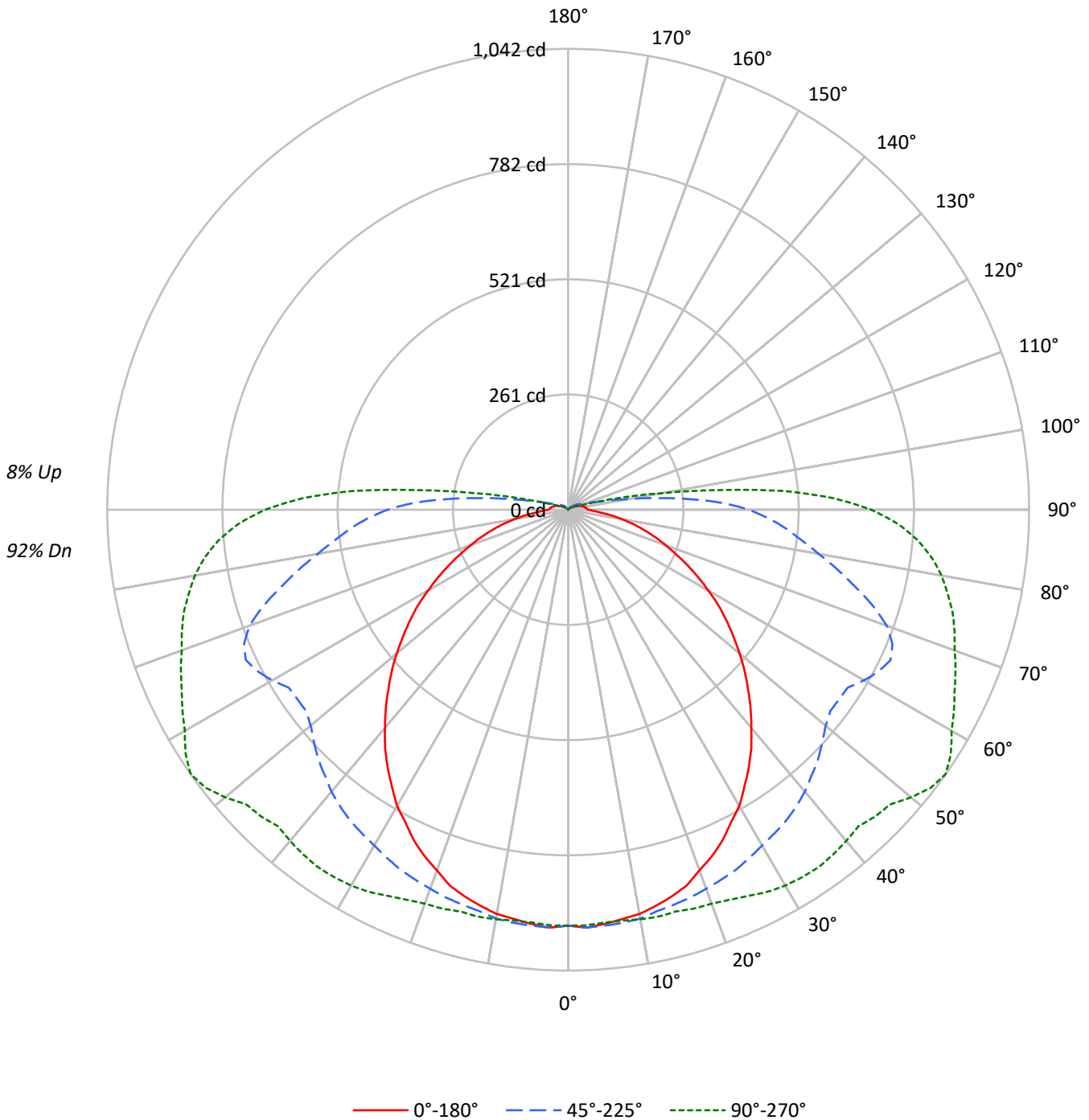
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9719	9719	9719
5°	9688	9548	9443
10°	9603	9367	9321
15°	9478	9172	9236
20°	9272	9066	9293
25°	9070	9010	9509
30°	8824	8949	9819
35°	8500	8994	10091
40°	8142	9015	10307
45°	7779	9030	10755
50°	7422	9055	11638
55°	7058	9496	12713
60°	6636	10591	13113
65°	6221	12083	13739
70°	5801	12846	14663
75°	5457	12809	16007
80°	5010	12873	17646
85°	4509	13523	19552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.8
10°-20°	261.6	5.4
20°-30°	413.6	8.5
30°-40°	534.5	11.0
40°-50°	609.8	12.6
50°-60°	669.0	13.8
60°-70°	689.1	14.2
70°-80°	647.5	13.3
80°-90°	525.0	10.8
90°-100°	296.1	6.1
100°-110°	73.0	1.5
110°-120°	23.9	0.5
120°-130°	12.3	0.3
130°-140°	4.6	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°	764.8	15.8
0°-40°	1299.3	26.8
0°-60°	2578.1	53.2
0°-90°	4439.7	91.5
90°-120°	393.0	8.1
90°-150°	410.3	8.5
90°-180°	410.0	8.5
0°-180°	4850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	940	944	944	940	937	89
15°	905	909	924	939	940	255
25°	825	843	898	944	964	379
35°	712	752	859	955	987	445
45°	575	644	798	924	981	444
55°	436	527	747	983	1042	390
65°	298	424	804	928	964	296
75°	178	419	671	832	900	188
85°	73	289	495	710	793	71
90°	44	211	408	605	685	26
95°	41	140	275	426	488	33
105°	32	46	67	74	73	33
115°	18	23	30	23	18	18
125°	9	9	18	16	14	8
135°	4	2	7	9	9	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°	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5
2.5°	945.8	945.8	944.0	945.8	945.8	944.0	945.8	945.8	945.8	945.8	945.8
5°	940.5	942.3	942.3	942.3	942.3	944.0	944.0	944.0	944.0	944.0	944.0
7.5°	933.4	935.2	936.9	936.9	938.7	938.7	938.7	938.7	940.5	942.3	942.3
10°	928.1	928.1	929.8	931.6	929.8	931.6	933.4	933.4	935.2	936.9	938.7
12.5°	917.4	917.4	919.2	921.0	921.0	921.0	922.7	924.5	926.3	928.1	929.8
15°	905.0	905.0	906.8	906.8	908.6	908.6	908.6	912.1	915.7	921.0	924.5
17.5°	890.8	889.0	890.8	892.6	894.4	896.1	896.1	901.5	910.3	915.7	919.2
20°	867.7	871.3	873.1	876.6	878.4	878.4	881.9	890.8	897.9	903.2	912.1
22.5°	848.2	850.0	850.0	855.3	860.6	860.6	864.2	873.1	883.7	892.6	905.0
25°	825.2	825.2	828.7	832.2	839.3	842.9	846.4	858.9	869.5	883.7	897.9
27.5°	796.8	800.3	803.9	807.4	818.1	823.4	830.5	842.9	857.1	873.1	887.3
30°	773.7	773.7	777.2	782.6	795.0	802.1	809.2	825.2	841.1	858.9	876.6
32.5°	741.7	743.5	748.8	755.9	770.1	779.0	786.1	805.6	823.4	842.9	867.7
35°	711.6	713.4	720.5	729.3	745.3	752.4	763.0	784.3	805.6	830.5	858.9
37.5°	679.6	681.4	686.7	700.9	718.7	727.6	738.2	759.5	786.1	816.3	846.4
40°	644.1	649.5	654.8	672.5	688.5	700.9	711.6	738.2	768.4	802.1	832.2
42.5°	610.4	614.0	622.9	640.6	658.3	674.3	685.0	713.4	748.8	782.6	814.5
45°	574.9	578.5	590.9	608.7	631.7	644.1	658.3	690.3	729.3	763.0	798.5
47.5°	541.2	546.6	557.2	576.7	599.8	615.8	631.7	667.2	704.5	741.7	779.0
50°	505.7	511.1	523.5	544.8	567.8	585.6	603.3	642.4	681.4	720.5	759.5
52.5°	470.2	475.6	489.8	511.1	537.7	557.2	574.9	615.8	658.3	699.2	747.1
55°	436.5	440.1	456.1	479.1	509.3	527.0	544.8	589.1	633.5	683.2	747.1
57.5°	402.8	402.8	422.3	447.2	479.1	496.9	518.2	562.5	615.8	681.4	748.8
60°	365.6	370.9	388.6	413.5	450.7	470.2	491.5	541.2	608.7	685.0	771.9
62.5°	331.8	337.2	354.9	381.5	422.3	445.4	470.2	532.4	612.2	704.5	791.4
65°	298.1	303.4	321.2	354.9	399.3	424.1	456.1	534.1	630.0	727.6	803.9
67.5°	264.4	271.5	294.6	328.3	381.5	413.5	450.7	546.6	651.2	736.4	793.2
70°	234.2	241.3	268.0	308.8	369.1	409.9	456.1	562.5	656.6	722.2	766.6
72.5°	205.8	214.7	244.9	292.8	365.6	413.5	464.9	566.1	642.4	690.3	722.2
75°	177.5	188.1	225.4	283.9	367.3	418.8	466.7	550.1	608.7	642.4	670.8
77.5°	150.8	163.3	209.4	275.1	365.6	409.9	449.0	512.8	553.6	587.4	622.9
80°	122.4	142.0	193.4	266.2	346.0	379.7	408.1	456.1	498.6	532.4	574.9
82.5°	97.6	120.7	175.7	244.9	308.8	337.2	360.2	404.6	443.6	486.2	532.4
85°	72.8	99.4	154.4	212.9	266.2	289.2	312.3	353.1	393.9	441.9	495.1
87.5°	55.0	79.9	129.5	179.2	227.1	246.7	268.0	310.5	351.4	399.3	454.3
90°	44.4	65.7	106.5	150.8	191.6	211.2	230.7	268.0	312.3	354.9	408.1
92.5°	42.6	55.0	88.7	124.2	159.7	177.5	193.4	227.1	266.2	305.2	349.6
95°	40.8	46.1	69.2	97.6	126.0	140.2	152.6	179.2	209.4	239.6	275.1
97.5°	39.0	40.8	55.0	74.5	95.8	106.5	117.1	136.6	156.2	177.5	198.7
100°	37.3	37.3	44.4	58.6	72.8	79.9	85.2	101.1	113.6	126.0	140.2
102.5°	33.7	33.7	37.3	44.4	55.0	60.3	63.9	72.8	81.6	90.5	97.6
105°	31.9	30.2	31.9	37.3	42.6	46.1	49.7	55.0	58.6	63.9	67.4
107.5°	28.4	28.4	28.4	31.9	35.5	37.3	39.0	42.6	46.1	47.9	49.7
110°	24.8	24.8	23.1	26.6	30.2	31.9	33.7	35.5	37.3	39.0	39.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	21.3	21.3	21.3	21.3	24.8	26.6	28.4	30.2	33.7	33.7	33.7
115°	17.7	17.7	17.7	17.7	21.3	23.1	24.8	26.6	28.4	30.2	30.2
117.5°	14.2	14.2	14.2	14.2	17.7	17.7	19.5	23.1	24.8	26.6	26.6
120°	12.4	12.4	12.4	10.6	14.2	16.0	16.0	19.5	21.3	23.1	24.8
122.5°	10.6	8.9	8.9	8.9	10.6	10.6	12.4	16.0	17.7	19.5	21.3
125°	8.9	7.1	7.1	7.1	7.1	8.9	10.6	12.4	16.0	17.7	17.7
127.5°	7.1	5.3	5.3	5.3	5.3	5.3	7.1	8.9	12.4	14.2	14.2
130°	5.3	5.3	5.3	3.5	3.5	3.5	3.5	7.1	8.9	10.6	12.4
132.5°	3.5	3.5	3.5	3.5	1.8	1.8	1.8	3.5	5.3	7.1	8.9
135°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8	3.5	5.3	7.1
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	1.8	3.5	3.5
140°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8
142.5°	1.8	1.8	1.8	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°	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5	940.5
2.5°	945.8	945.8	944.0	944.0	944.0	942.3	942.3	940.5	940.5	940.5
5°	944.0	944.0	942.3	942.3	940.5	940.5	938.7	938.7	938.7	936.9
7.5°	940.5	940.5	940.5	938.7	938.7	938.7	936.9	936.9	936.9	936.9
10°	936.9	936.9	936.9	938.7	938.7	938.7	938.7	940.5	940.5	940.5
12.5°	931.6	933.4	936.9	936.9	938.7	938.7	938.7	940.5	942.3	942.3
15°	926.3	931.6	935.2	938.7	938.7	940.5	940.5	942.3	942.3	940.5
17.5°	924.5	929.8	935.2	938.7	940.5	942.3	944.0	945.8	947.6	945.8
20°	919.2	928.1	935.2	940.5	942.3	942.3	947.6	949.4	949.4	947.6
22.5°	913.9	924.5	931.6	938.7	942.3	944.0	949.4	951.1	952.9	954.7
25°	908.6	917.4	929.8	940.5	944.0	949.4	954.7	960.0	961.8	963.6
27.5°	903.2	915.7	931.6	944.0	949.4	954.7	963.6	970.7	970.7	974.2
30°	894.4	915.7	931.6	947.6	952.9	960.0	972.4	979.5	981.3	981.3
32.5°	890.8	913.9	933.4	949.4	956.5	961.8	974.2	981.3	984.9	984.9
35°	883.7	908.6	929.8	945.8	954.7	960.0	972.4	983.1	984.9	986.6
37.5°	873.1	899.7	922.7	940.5	947.6	956.5	968.9	976.0	981.3	983.1
40°	862.4	887.3	912.1	931.6	940.5	947.6	961.8	972.4	976.0	977.8
42.5°	844.7	874.8	899.7	922.7	931.6	938.7	954.7	963.6	970.7	970.7
45°	830.5	858.9	889.0	912.1	924.5	935.2	956.5	972.4	981.3	981.3
47.5°	814.5	846.4	881.9	919.2	933.4	945.8	965.3	976.0	984.9	986.6
50°	800.3	846.4	889.0	922.7	936.9	952.9	979.5	999.1	1009.7	1011.5
52.5°	798.5	850.0	896.1	942.3	960.0	979.5	1004.4	1020.3	1029.2	1032.8
55°	802.1	866.0	922.7	963.6	983.1	997.3	1018.6	1032.8	1038.1	1041.6
57.5°	823.4	889.0	940.5	976.0	990.2	1000.8	1015.0	1020.3	1025.7	1025.7
60°	844.7	905.0	942.3	967.1	977.8	986.6	995.5	1000.8	1004.4	1000.8
62.5°	858.9	901.5	929.8	945.8	952.9	958.2	968.9	977.8	977.8	983.1
65°	851.8	881.9	905.0	921.0	928.1	935.2	949.4	956.5	965.3	963.6
67.5°	828.7	857.1	874.8	896.1	905.0	912.1	929.8	938.7	947.6	947.6
70°	793.2	818.1	841.1	864.2	873.1	883.7	903.2	917.4	924.5	929.8
72.5°	747.1	773.7	803.9	837.6	853.5	864.2	887.3	903.2	913.9	915.7
75°	702.7	738.2	780.8	818.1	832.2	846.4	871.3	887.3	894.4	899.7
77.5°	661.9	704.5	750.6	791.4	807.4	823.4	848.2	866.0	876.6	878.4
80°	622.9	672.5	718.7	763.0	780.8	795.0	821.6	841.1	851.8	857.1
82.5°	583.8	638.8	686.7	732.9	750.6	768.4	795.0	814.5	826.9	828.7
85°	548.3	599.8	649.5	693.8	709.8	731.1	759.5	779.0	789.7	793.2
87.5°	505.7	555.4	603.3	645.9	663.7	683.2	711.6	732.9	741.7	747.1
90°	454.3	504.0	546.6	587.4	605.1	621.1	645.9	669.0	679.6	685.0
92.5°	392.2	436.5	479.1	512.8	528.8	541.2	569.6	587.4	594.5	599.8
95°	312.3	344.3	381.5	411.7	425.9	436.5	456.1	473.8	484.4	488.0
97.5°	221.8	246.7	264.4	287.5	292.8	305.2	321.2	331.8	338.9	337.2
100°	152.6	168.6	179.2	188.1	191.6	198.7	207.6	209.4	216.5	214.7
102.5°	102.9	108.2	113.6	118.9	120.7	122.4	127.8	126.0	129.5	131.3
105°	69.2	71.0	72.8	74.5	74.5	74.5	74.5	74.5	74.5	72.8
107.5°	49.7	47.9	47.9	47.9	46.1	46.1	44.4	44.4	44.4	42.6
110°	39.0	37.3	35.5	33.7	31.9	31.9	30.2	30.2	28.4	28.4



TEST NUMBER: P237769

CATALOG NUMBER: 2VT2-LD5-5-DR-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	31.9	30.2	28.4	26.6	26.6	24.8	24.8	23.1	21.3	21.3
115°	28.4	26.6	26.6	24.8	23.1	23.1	21.3	19.5	19.5	17.7
117.5°	26.6	24.8	23.1	21.3	21.3	21.3	19.5	17.7	17.7	17.7
120°	23.1	23.1	21.3	21.3	19.5	19.5	17.7	17.7	16.0	16.0
122.5°	21.3	21.3	19.5	19.5	17.7	17.7	16.0	16.0	16.0	14.2
125°	17.7	17.7	17.7	17.7	16.0	16.0	16.0	14.2	14.2	14.2
127.5°	16.0	16.0	16.0	16.0	14.2	14.2	14.2	14.2	12.4	12.4
130°	12.4	14.2	14.2	14.2	14.2	12.4	12.4	12.4	12.4	12.4
132.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
135°	7.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
137.5°	5.3	5.3	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
140°	1.8	3.5	3.5	3.5	5.3	5.3	5.3	5.3	3.5	3.5
142.5°	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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)