

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: P237778

Luminaire Tested: **2VRVT2-LD5-5-DR100-W-UNV-L850-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237778
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-L850-CD1-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% 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: 4822.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

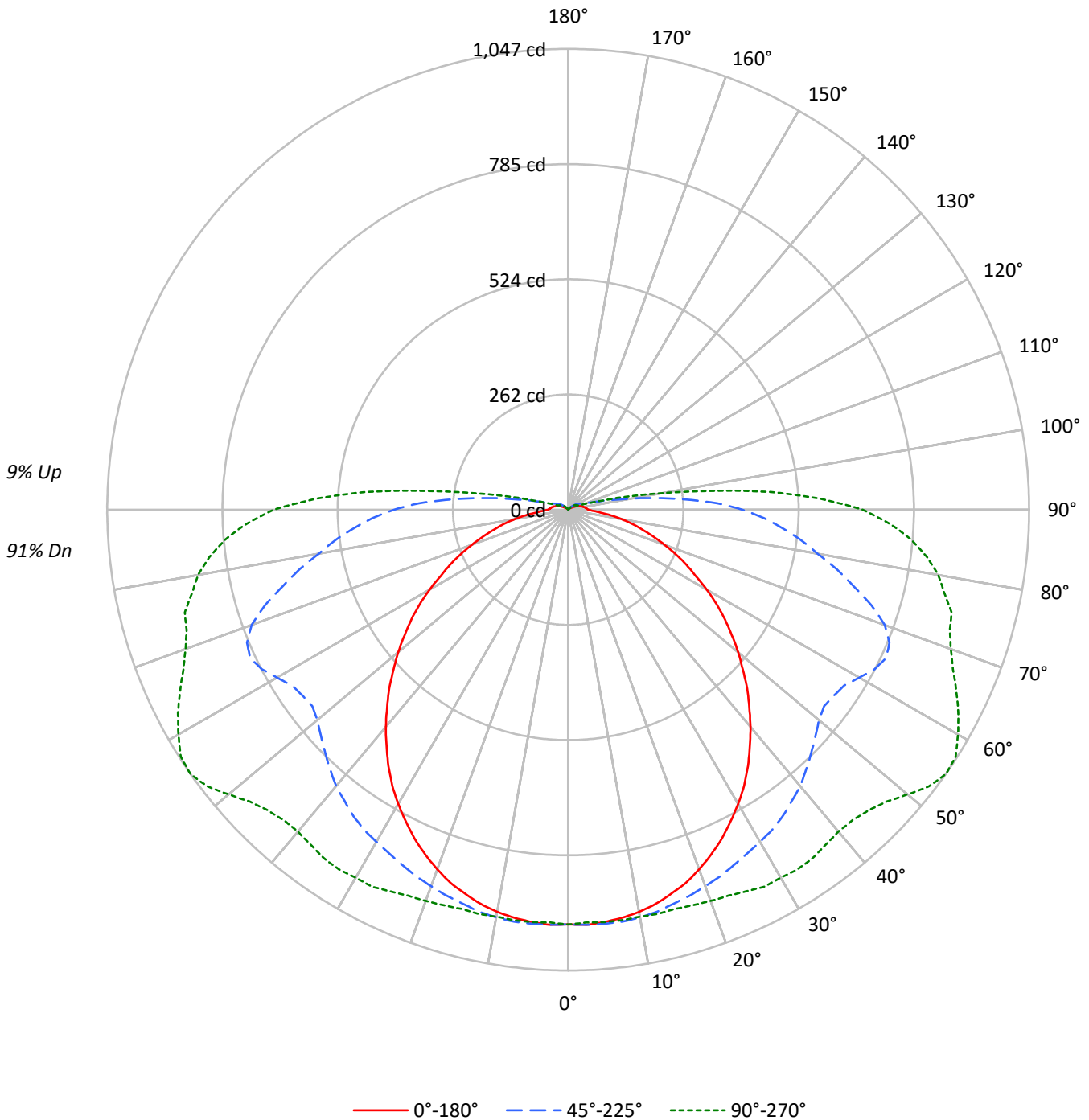
Input Watts (W): 39
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9737	9737	9737
5°	9688	9549	9479
10°	9603	9385	9304
15°	9461	9190	9220
20°	9291	9049	9275
25°	9070	8938	9439
30°	8804	8895	9660
35°	8500	8901	9891
40°	8143	8882	10063
45°	7780	8830	10581
50°	7397	8865	11577
55°	7030	9360	12779
60°	6604	10470	13393
65°	6186	11976	13866
70°	5759	12816	14581
75°	5347	12809	16039
80°	5010	12875	17574
85°	4509	13378	19290



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	1.9
10°-20°	261.7	5.4
20°-30°	412.2	8.5
30°-40°	528.9	11.0
40°-50°	601.3	12.5
50°-60°	664.9	13.8
60°-70°	689.5	14.3
70°-80°	642.6	13.3
80°-90°	518.1	10.7
90°-100°	288.3	6.0
100°-110°	77.4	1.6
110°-120°	27.0	0.6
120°-130°	14.3	0.3
130°-140°	5.4	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°	763.8	15.8
0°-40°	1292.6	26.8
0°-60°	2558.8	53.1
0°-90°	4409.0	91.4
90°-120°	392.8	8.1
90°-150°	413.0	8.6
90°-180°	413.0	8.6
0°-180°	4822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	940	942	944	946	940	89
15°	903	912	926	940	939	255
25°	825	846	891	942	956	380
35°	712	752	850	939	967	445
45°	575	635	781	910	965	443
55°	435	518	736	981	1047	388
65°	296	419	797	942	972	293
75°	174	405	671	829	902	185
85°	73	284	490	704	783	71
90°	46	209	396	587	669	26
95°	41	138	266	398	461	32
105°	30	48	73	82	80	32
115°	18	23	34	28	23	18
125°	7	9	21	20	18	7
135°	4	2	7	11	11	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



TEST NUMBER: P237778

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3
2.5°	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1	944.1
5°	940.5	942.3	942.3	942.3	942.3	942.3	944.1	944.1	944.1	945.8	944.1
7.5°	935.2	937.0	937.0	937.0	938.8	938.8	940.5	940.5	942.3	944.1	944.1
10°	928.1	929.9	929.9	931.7	931.7	933.4	933.4	937.0	937.0	938.8	940.5
12.5°	917.5	917.5	919.2	922.8	924.6	924.6	926.3	928.1	931.7	933.4	935.2
15°	903.3	903.3	906.8	910.4	912.1	912.1	913.9	915.7	922.8	924.6	926.3
17.5°	889.1	887.3	890.8	894.4	896.2	897.9	899.7	905.0	908.6	913.9	919.2
20°	869.5	869.5	873.1	878.4	882.0	883.7	887.3	892.6	899.7	905.0	910.4
22.5°	848.2	850.0	851.8	857.1	862.4	866.0	867.8	874.9	883.7	890.8	901.5
25°	825.2	827.0	830.5	835.8	842.9	846.5	850.0	858.9	871.3	878.4	890.8
27.5°	798.6	800.3	805.7	811.0	819.9	825.2	830.5	839.4	851.8	864.2	880.2
30°	771.9	773.7	779.0	787.9	796.8	802.1	809.2	821.6	837.6	851.8	871.3
32.5°	743.5	745.3	750.6	763.1	771.9	779.0	784.4	800.3	818.1	839.4	862.4
35°	711.6	713.4	720.5	731.1	745.3	752.4	759.5	775.5	800.3	825.2	850.0
37.5°	677.9	681.4	690.3	699.2	715.2	722.3	732.9	754.2	779.0	807.4	834.1
40°	644.2	647.7	656.6	669.0	685.0	695.6	706.3	732.9	759.5	789.7	819.9
42.5°	608.7	614.0	622.9	637.1	654.8	665.5	677.9	708.1	740.0	770.2	800.3
45°	575.0	578.5	589.2	605.1	622.9	635.3	651.3	683.2	715.2	748.9	780.8
47.5°	537.7	543.0	553.7	573.2	594.5	608.7	622.9	658.4	692.1	725.8	761.3
50°	504.0	507.5	520.0	537.7	562.5	578.5	594.5	630.0	667.2	704.5	743.5
52.5°	468.5	472.0	486.2	504.0	530.6	548.3	564.3	601.6	640.6	685.0	732.9
55°	434.8	438.3	452.5	470.3	500.4	518.2	535.9	576.7	621.1	672.6	736.4
57.5°	399.3	401.1	417.0	438.3	470.3	488.0	505.8	551.9	606.9	670.8	743.5
60°	363.8	367.3	381.5	406.4	441.9	461.4	482.7	534.1	601.6	679.7	763.1
62.5°	326.5	333.6	349.6	376.2	415.3	438.3	463.2	525.3	605.1	697.4	784.4
65°	296.4	301.7	317.6	349.6	392.2	418.8	449.0	527.0	621.1	716.9	796.8
67.5°	264.4	271.5	291.0	324.7	376.2	408.2	445.4	537.7	638.8	727.6	789.7
70°	232.5	239.6	264.4	305.2	363.8	402.8	447.2	548.3	642.4	713.4	764.8
72.5°	202.3	214.7	241.3	291.0	358.5	402.8	452.5	548.3	628.2	683.2	722.3
75°	173.9	186.3	221.8	278.6	356.7	404.6	449.0	532.4	592.7	638.8	670.8
77.5°	149.1	163.3	205.9	268.0	349.6	392.2	431.2	496.9	544.8	585.6	624.7
80°	122.4	140.2	188.1	255.5	328.3	363.8	394.0	449.0	493.3	534.1	575.0
82.5°	97.6	118.9	170.4	234.2	296.4	326.5	351.4	399.3	441.9	484.5	534.1
85°	72.8	97.6	147.3	205.9	257.3	283.9	307.0	351.4	392.2	440.1	489.8
87.5°	55.0	78.1	124.2	175.7	221.8	244.9	264.4	305.2	347.8	394.0	445.4
90°	46.1	63.9	104.7	147.3	189.9	209.4	227.1	268.0	307.0	347.8	395.7
92.5°	42.6	53.2	87.0	122.4	157.9	173.9	191.7	225.4	259.1	298.1	338.9
95°	40.8	46.1	69.2	97.6	126.0	138.4	152.6	177.5	204.1	236.0	266.2
97.5°	39.0	40.8	55.0	76.3	97.6	106.5	117.1	138.4	157.9	177.5	200.5
100°	35.5	37.3	44.4	58.6	74.5	83.4	88.7	102.9	117.1	129.5	143.7
102.5°	33.7	33.7	37.3	46.1	56.8	62.1	67.4	78.1	87.0	95.8	101.2
105°	30.2	30.2	31.9	37.3	44.4	47.9	51.5	58.6	63.9	69.2	72.8
107.5°	26.6	26.6	26.6	31.9	37.3	39.0	42.6	46.1	51.5	53.2	55.0
110°	23.1	23.1	23.1	26.6	30.2	31.9	35.5	39.0	42.6	42.6	44.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	21.3	19.5	19.5	21.3	26.6	28.4	30.2	33.7	35.5	37.3	37.3
115°	17.7	17.7	16.0	17.7	21.3	23.1	24.8	28.4	31.9	33.7	33.7
117.5°	14.2	14.2	14.2	14.2	17.7	19.5	21.3	24.8	28.4	30.2	30.2
120°	12.4	12.4	10.6	10.6	14.2	16.0	17.7	21.3	24.8	26.6	26.6
122.5°	8.9	8.9	8.9	8.9	10.6	12.4	14.2	17.7	21.3	23.1	23.1
125°	7.1	7.1	7.1	7.1	7.1	8.9	10.6	14.2	16.0	19.5	21.3
127.5°	7.1	5.3	5.3	5.3	5.3	5.3	7.1	10.6	14.2	16.0	17.7
130°	5.3	5.3	5.3	3.5	3.5	3.5	5.3	7.1	10.6	12.4	14.2
132.5°	3.5	3.5	3.5	3.5	3.5	1.8	3.5	5.3	7.1	8.9	10.6
135°	3.5	3.5	3.5	1.8	1.8	1.8	1.8	1.8	5.3	5.3	7.1
137.5°	1.8	1.8	1.8	1.8	1.8	1.8	0.0	1.8	1.8	3.5	5.3
140°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	1.8	1.8
142.5°	1.8	1.8	1.8	1.8	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°	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3	942.3
2.5°	942.3	942.3	942.3	942.3	942.3	940.5	940.5	940.5	938.8	938.8
5°	945.8	945.8	945.8	945.8	945.8	944.1	944.1	942.3	942.3	940.5
7.5°	944.1	945.8	944.1	944.1	944.1	944.1	942.3	942.3	940.5	940.5
10°	940.5	942.3	942.3	944.1	944.1	944.1	942.3	942.3	938.8	938.8
12.5°	937.0	938.8	938.8	942.3	942.3	942.3	940.5	940.5	940.5	940.5
15°	929.9	933.4	938.8	940.5	940.5	940.5	938.8	938.8	938.8	938.8
17.5°	922.8	926.3	931.7	935.2	937.0	938.8	938.8	940.5	942.3	942.3
20°	915.7	922.8	928.1	933.4	935.2	937.0	940.5	944.1	945.8	945.8
22.5°	910.4	919.2	926.3	933.4	937.0	938.8	942.3	949.4	951.2	949.4
25°	903.3	917.5	926.3	938.8	942.3	945.8	949.4	954.7	956.5	956.5
27.5°	897.9	912.1	924.6	935.2	942.3	947.6	954.7	960.0	963.6	965.4
30°	889.1	908.6	924.6	938.8	944.1	949.4	960.0	965.4	967.1	965.4
32.5°	883.7	903.3	921.0	935.2	940.5	947.6	960.0	967.1	970.7	968.9
35°	873.1	896.2	915.7	933.4	938.8	945.8	956.5	965.4	967.1	967.1
37.5°	858.9	883.7	905.0	924.6	929.9	937.0	947.6	956.5	960.0	960.0
40°	846.5	869.5	892.6	912.1	919.2	926.3	938.8	951.2	956.5	954.7
42.5°	828.7	855.3	880.2	903.3	912.1	919.2	935.2	949.4	954.7	956.5
45°	811.0	841.1	869.5	896.2	910.4	921.0	940.5	958.3	967.1	965.4
47.5°	795.0	832.3	869.5	903.3	921.0	931.7	954.7	970.7	977.8	981.3
50°	786.1	834.1	878.4	913.9	931.7	945.8	972.5	990.2	1000.9	1006.2
52.5°	787.9	841.1	890.8	935.2	952.9	970.7	999.1	1020.4	1027.5	1032.8
55°	798.6	858.9	913.9	961.8	981.3	997.3	1022.2	1034.6	1045.2	1047.0
57.5°	816.3	883.7	937.0	977.8	992.0	1004.4	1025.7	1036.4	1041.7	1043.5
60°	841.1	901.5	944.1	979.6	988.4	999.1	1013.3	1020.4	1020.4	1022.2
62.5°	855.3	906.8	940.5	958.3	968.9	976.0	988.4	995.5	1000.9	999.1
65°	851.8	892.6	915.7	937.0	942.3	949.4	956.5	968.9	968.9	972.5
67.5°	832.3	866.0	883.7	901.5	908.6	919.2	929.9	940.5	942.3	945.8
70°	798.6	825.2	844.7	866.0	873.1	883.7	899.7	915.7	921.0	924.6
72.5°	752.4	779.0	807.4	835.8	848.2	860.7	882.0	896.2	905.0	908.6
75°	704.5	738.2	775.5	811.0	828.7	844.7	864.2	887.3	892.6	901.5
77.5°	663.7	704.5	750.6	787.9	805.7	821.6	846.5	862.4	873.1	874.9
80°	622.9	667.2	715.2	757.7	777.3	793.2	821.6	839.4	853.6	853.6
82.5°	582.1	635.3	685.0	725.8	747.1	761.3	793.2	807.4	823.4	821.6
85°	541.2	596.3	644.2	685.0	704.5	722.3	750.6	770.2	782.6	782.6
87.5°	496.9	543.0	592.7	637.1	651.3	669.0	695.6	716.9	724.0	731.1
90°	443.6	488.0	535.9	571.4	587.4	605.1	631.7	651.3	661.9	669.0
92.5°	381.5	422.3	459.6	489.8	505.8	523.5	544.8	566.1	571.4	573.2
95°	299.9	330.1	363.8	392.2	397.5	415.3	433.0	452.5	461.4	461.4
97.5°	223.6	243.1	266.2	280.4	289.3	296.4	308.8	321.2	323.0	326.5
100°	157.9	168.6	181.0	191.7	195.2	200.5	207.6	214.7	214.7	214.7
102.5°	110.0	117.1	122.4	127.8	127.8	129.5	131.3	134.9	134.9	136.6
105°	76.3	79.9	79.9	79.9	81.6	81.6	79.9	81.6	83.4	79.9
107.5°	56.8	56.8	55.0	53.2	55.0	53.2	51.5	51.5	49.7	49.7
110°	44.4	42.6	40.8	40.8	39.0	39.0	37.3	35.5	33.7	35.5



TEST NUMBER: P237778

CATALOG NUMBER: 2VRVT2-LD5-5-DR100-W-UNV-L850-CD1-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	37.3	35.5	33.7	31.9	31.9	30.2	30.2	28.4	26.6	26.6
115°	33.7	31.9	30.2	28.4	28.4	28.4	26.6	24.8	24.8	23.1
117.5°	30.2	30.2	28.4	26.6	26.6	24.8	24.8	23.1	23.1	21.3
120°	26.6	26.6	26.6	24.8	24.8	23.1	23.1	21.3	21.3	21.3
122.5°	24.8	24.8	23.1	23.1	23.1	21.3	21.3	19.5	19.5	19.5
125°	21.3	21.3	21.3	21.3	19.5	19.5	19.5	17.7	17.7	17.7
127.5°	17.7	17.7	19.5	17.7	17.7	17.7	17.7	17.7	16.0	16.0
130°	14.2	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.2	14.2
132.5°	12.4	12.4	12.4	14.2	14.2	14.2	14.2	12.4	12.4	12.4
135°	8.9	8.9	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
137.5°	5.3	7.1	7.1	8.9	8.9	8.9	8.9	8.9	8.9	7.1
140°	3.5	3.5	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
142.5°	1.8	1.8	1.8	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)