

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P237898

Luminaire Tested: **8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (448) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21112.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

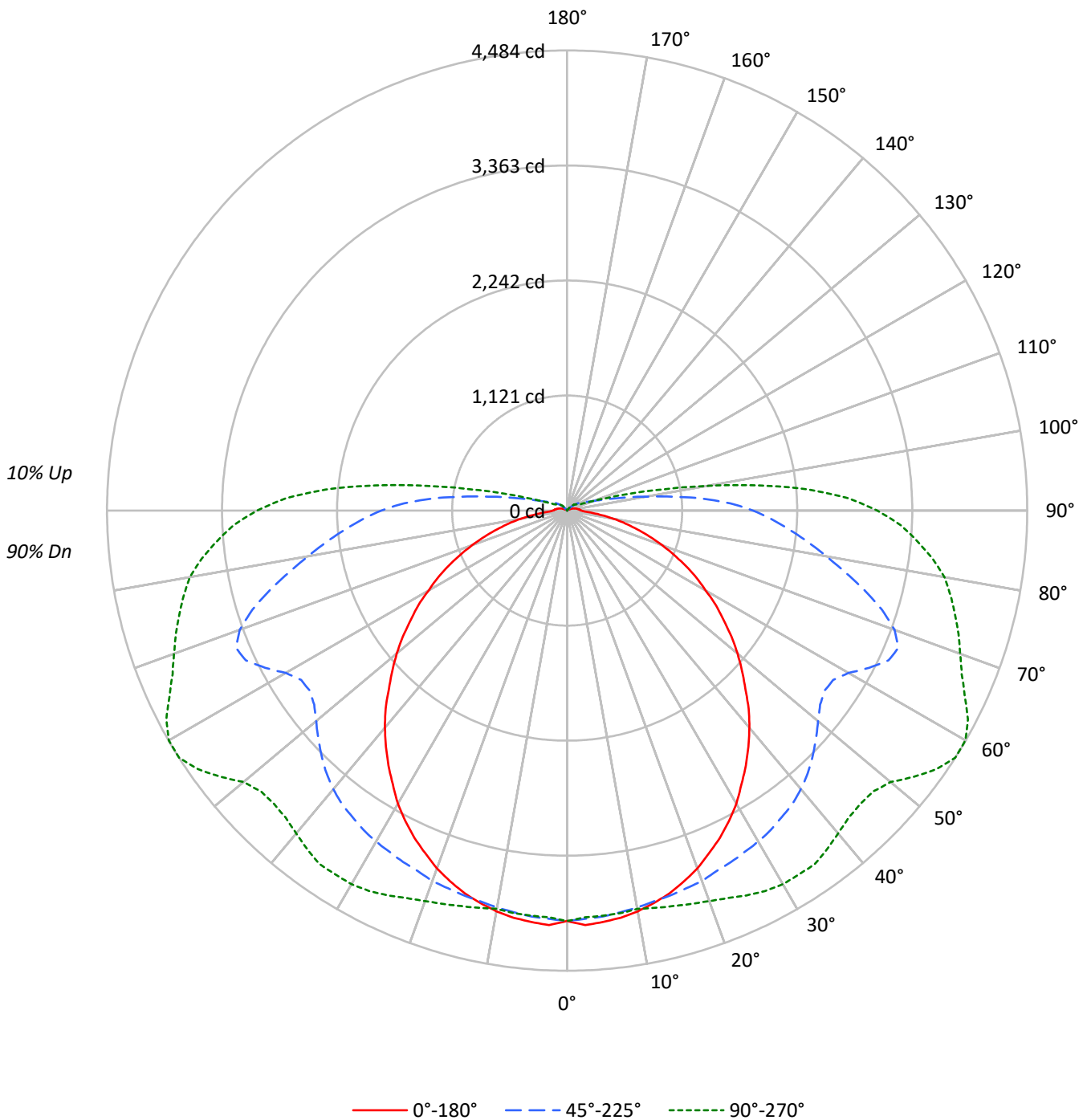
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	99	99	93	93	93	90
1	101	94	88	83	97	91	85	80	85	80	76	79	75	72	74	71	68	65
2	90	79	71	63	86	77	69	62	71	64	59	66	61	56	62	57	53	50
3	81	68	58	50	77	66	57	49	61	53	47	57	50	45	53	47	43	40
4	73	59	49	41	70	57	48	40	53	45	39	50	43	37	46	40	35	33
5	67	52	42	35	64	51	41	34	47	39	33	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	40	32	27	37	31	26	23
7	57	42	33	26	55	41	32	25	38	30	24	36	29	24	34	27	23	20
8	53	38	29	23	51	37	28	22	35	27	22	33	26	21	31	25	20	18
9	49	35	26	20	47	34	26	20	32	24	19	30	23	19	28	22	18	16
10	46	32	24	18	44	31	23	18	30	22	17	28	21	17	26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10330	10330	10330
5°	10416	10077	9985
10°	10365	9866	9763
15°	10269	9732	9797
20°	10127	9678	9926
25°	9938	9649	10206
30°	9724	9709	10516
35°	9437	9788	10756
40°	9163	9881	10822
45°	8794	9890	11070
50°	8506	9886	11836
55°	8154	10164	13402
60°	7791	11412	14677
65°	7471	13753	15241
70°	7043	15203	16070
75°	6563	15501	17403
80°	6146	15777	19211
85°	5682	16765	21106



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.3	1.8
10°-20°	1106.9	5.2
20°-30°	1759.2	8.3
30°-40°	2274.0	10.8
40°-50°	2566.1	12.2
50°-60°	2813.1	13.3
60°-70°	3001.9	14.2
70°-80°	2814.1	13.3
80°-90°	2266.5	10.7
90°-100°	1411.3	6.7
100°-110°	457.5	2.2
110°-120°	149.3	0.7
120°-130°	76.4	0.4
130°-140°	31.5	0.1
140°-150°	4.9	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3245.4	15.4
0°-40°	5519.4	26.1
0°-60°	10898.6	51.6
0°-90°	18981.1	89.9
90°-120°	2018.1	9.6
90°-150°	2130.9	10.1
90°-180°	2131.0	10.1
0°-180°	21112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3999	3999	3999	3999	3999	
5°	4024	4010	3971	3976	3963	382
15°	3860	3860	3882	3982	3990	1088
25°	3519	3566	3780	4046	4137	1620
35°	3034	3206	3647	4065	4206	1898
45°	2455	2757	3384	3849	4040	1901
55°	1862	2258	3062	4068	4392	1669
65°	1275	1787	3456	4184	4276	1261
75°	707	1729	3001	3630	3913	753
85°	236	1183	2181	3090	3425	242
90°	136	884	1812	2691	3023	77
95°	119	615	1333	2087	2361	93
105°	80	222	441	571	637	84
115°	39	100	200	177	152	41
125°	17	33	119	122	105	15
135°	6	0	47	72	69	5
145°	3	0	0	14	14	2
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: P237898

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6
2.5°	4043.0	4031.9	4023.6	4023.6	4023.6	4020.8	4020.8	4018.0	4012.5	3995.9	3982.0
5°	4023.6	4018.0	4009.7	4009.7	4009.7	4009.7	4009.7	4004.2	3993.1	3982.0	3970.9
7.5°	4001.4	3995.9	3984.8	3987.6	3979.2	3982.0	3979.2	3973.7	3970.9	3962.6	3948.8
10°	3965.4	3959.8	3948.8	3951.5	3946.0	3948.8	3948.8	3951.5	3946.0	3937.7	3926.6
12.5°	3915.5	3912.7	3907.2	3904.4	3910.0	3915.5	3918.3	3912.7	3907.2	3904.4	3901.7
15°	3860.1	3854.5	3849.0	3851.8	3860.1	3860.1	3868.4	3868.4	3868.4	3871.2	3882.3
17.5°	3788.0	3785.3	3779.7	3785.3	3790.8	3793.6	3804.7	3810.2	3813.0	3835.1	3860.1
20°	3710.4	3704.9	3699.4	3704.9	3713.2	3724.3	3735.4	3752.0	3777.0	3813.0	3840.7
22.5°	3613.5	3610.7	3607.9	3613.5	3627.3	3643.9	3663.3	3699.4	3738.2	3777.0	3801.9
25°	3519.2	3513.7	3510.9	3522.0	3549.7	3566.4	3591.3	3638.4	3682.7	3732.6	3779.7
27.5°	3413.9	3397.3	3411.2	3422.3	3458.3	3480.4	3510.9	3571.9	3621.8	3677.2	3749.2
30°	3297.6	3289.2	3289.2	3314.2	3361.3	3394.5	3430.6	3499.8	3558.0	3635.6	3724.3
32.5°	3161.8	3164.5	3170.1	3203.3	3267.1	3305.9	3336.4	3416.7	3491.5	3588.5	3691.1
35°	3034.3	3028.8	3042.6	3089.7	3161.8	3206.1	3247.7	3333.6	3427.8	3535.9	3646.7
37.5°	2901.3	2895.8	2915.2	2970.6	3048.2	3095.3	3142.4	3250.5	3358.5	3480.4	3605.1
40°	2762.7	2762.7	2784.9	2845.9	2931.8	2981.7	3037.1	3159.0	3278.2	3411.2	3544.2
42.5°	2618.7	2613.1	2640.8	2724.0	2820.9	2870.8	2937.3	3064.8	3200.6	3333.6	3472.1
45°	2455.2	2477.3	2505.0	2588.2	2687.9	2757.2	2834.8	2970.6	3109.1	3250.5	3383.5
47.5°	2311.1	2327.7	2366.5	2455.2	2571.5	2635.3	2718.4	2862.5	3012.1	3147.9	3289.2
50°	2167.0	2175.3	2227.9	2316.6	2438.5	2518.9	2599.3	2746.1	2893.0	3048.2	3192.3
52.5°	2017.3	2020.1	2083.8	2169.7	2313.8	2394.2	2469.0	2624.2	2782.1	2942.9	3106.4
55°	1862.2	1870.5	1937.0	2031.2	2183.6	2258.4	2341.5	2502.3	2674.1	2857.0	3062.0
57.5°	1720.8	1729.1	1792.9	1895.4	2053.4	2133.7	2214.1	2388.7	2577.1	2804.3	3073.1
60°	1560.1	1582.3	1640.5	1756.9	1917.6	1997.9	2092.1	2286.1	2521.7	2823.7	3164.5
62.5°	1424.3	1429.9	1496.4	1623.8	1792.9	1881.5	1984.1	2219.6	2530.0	2909.6	3317.0
65°	1274.7	1288.5	1357.8	1501.9	1682.0	1787.3	1909.3	2211.3	2607.6	3059.2	3455.5
67.5°	1125.0	1147.2	1230.4	1388.3	1596.1	1723.6	1878.8	2269.5	2732.3	3172.9	3494.3
70°	983.7	1011.4	1105.7	1288.5	1537.9	1698.7	1898.2	2355.4	2818.2	3181.2	3394.5
72.5°	842.4	881.2	1003.1	1213.7	1515.8	1715.3	1942.5	2408.0	2798.8	3048.2	3217.2
75°	706.6	751.0	908.9	1155.5	1513.0	1729.1	1959.1	2358.2	2635.3	2843.1	3001.1
77.5°	584.7	637.3	820.2	1108.4	1493.6	1695.9	1881.5	2189.1	2419.1	2613.1	2773.8
80°	460.0	529.3	742.6	1047.5	1399.4	1560.1	1712.5	1970.2	2178.1	2374.8	2563.2
82.5°	340.8	432.3	659.5	956.0	1238.7	1382.8	1501.9	1737.5	1948.1	2153.1	2369.3
85°	235.5	340.8	559.8	814.7	1058.5	1183.2	1299.6	1524.1	1731.9	1948.1	2180.8
87.5°	163.5	268.8	465.5	690.0	914.4	1019.7	1125.0	1341.2	1549.0	1762.4	2000.7
90°	135.8	213.4	387.9	584.7	784.2	884.0	983.7	1180.5	1385.5	1590.6	1812.3
92.5°	127.5	177.3	318.7	490.5	670.6	753.7	842.4	1025.3	1208.2	1404.9	1593.4
95°	119.2	141.3	252.2	390.7	543.1	615.2	690.0	834.1	1000.4	1161.1	1332.9
97.5°	108.1	116.4	194.0	304.8	426.7	487.7	543.1	659.5	789.8	911.7	1033.6
100°	99.8	99.8	146.9	232.8	329.8	374.1	421.2	518.2	604.1	695.5	781.4
102.5°	88.7	88.7	113.6	174.6	252.2	288.2	329.8	396.3	460.0	523.7	584.7
105°	80.4	77.6	91.4	135.8	191.2	221.7	252.2	307.6	357.5	399.0	440.6
107.5°	69.3	69.3	74.8	108.1	152.4	177.3	199.5	246.6	285.4	315.9	338.1
110°	58.2	58.2	61.0	85.9	124.7	144.1	166.3	202.3	232.8	257.7	271.6



TEST NUMBER: P237898

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	49.9	49.9	47.1	69.3	102.5	121.9	138.6	171.8	199.5	216.1	227.2
115°	38.8	38.8	38.8	52.7	83.1	99.8	116.4	146.9	174.6	191.2	199.5
117.5°	33.3	33.3	30.5	38.8	66.5	83.1	97.0	127.5	149.6	169.0	177.3
120°	24.9	24.9	24.9	24.9	49.9	66.5	80.4	108.1	130.2	146.9	155.2
122.5°	19.4	19.4	19.4	16.6	36.0	49.9	63.7	88.7	110.8	127.5	138.6
125°	16.6	13.9	13.9	13.9	22.2	33.3	47.1	69.3	88.7	108.1	119.2
127.5°	13.9	11.1	11.1	11.1	11.1	19.4	30.5	52.7	72.0	88.7	99.8
130°	11.1	8.3	8.3	8.3	5.5	11.1	19.4	36.0	55.4	69.3	80.4
132.5°	8.3	8.3	5.5	5.5	2.8	2.8	8.3	22.2	38.8	52.7	63.7
135°	5.5	5.5	5.5	2.8	2.8	0.0	0.0	11.1	24.9	36.0	47.1
137.5°	5.5	5.5	2.8	2.8	0.0	0.0	0.0	2.8	11.1	22.2	33.3
140°	5.5	2.8	2.8	2.8	0.0	0.0	0.0	0.0	2.8	11.1	19.4
142.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5
145°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.8	2.8	2.8	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



TEST NUMBER: P237898

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6	3998.6
2.5°	3982.0	3984.8	3987.6	3987.6	3984.8	3984.8	3982.0	3976.5	3970.9	3968.2
5°	3962.6	3970.9	3976.5	3976.5	3976.5	3973.7	3973.7	3970.9	3965.4	3962.6
7.5°	3946.0	3959.8	3965.4	3962.6	3962.6	3962.6	3962.6	3965.4	3959.8	3957.1
10°	3929.4	3940.4	3951.5	3954.3	3957.1	3954.3	3954.3	3948.8	3946.0	3940.4
12.5°	3912.7	3932.1	3948.8	3962.6	3962.6	3962.6	3968.2	3976.5	3973.7	3965.4
15°	3898.9	3932.1	3951.5	3973.7	3982.0	3990.3	3993.1	3998.6	3990.3	3990.3
17.5°	3890.6	3934.9	3962.6	3984.8	3987.6	3998.6	4015.3	4023.6	4020.8	4018.0
20°	3876.7	3929.4	3968.2	3987.6	4001.4	4015.3	4037.4	4043.0	4048.5	4048.5
22.5°	3860.1	3918.3	3957.1	4001.4	4023.6	4037.4	4067.9	4084.5	4090.1	4087.3
25°	3846.2	3912.7	3970.9	4023.6	4045.7	4062.4	4101.2	4131.6	4137.2	4137.2
27.5°	3832.4	3910.0	3979.2	4048.5	4076.2	4095.6	4134.4	4164.9	4176.0	4178.8
30°	3818.5	3904.4	3987.6	4056.8	4090.1	4109.5	4153.8	4181.5	4203.7	4203.7
32.5°	3793.6	3898.9	3982.0	4056.8	4084.5	4117.8	4159.4	4189.8	4206.5	4203.7
35°	3768.6	3865.6	3959.8	4034.7	4065.1	4098.4	4148.3	4184.3	4195.4	4206.5
37.5°	3727.1	3829.6	3923.8	3998.6	4043.0	4070.7	4115.0	4142.7	4164.9	4159.4
40°	3671.7	3774.2	3871.2	3943.2	3982.0	4015.3	4065.1	4090.1	4109.5	4106.7
42.5°	3591.3	3707.7	3799.1	3876.7	3918.3	3951.5	4012.5	4034.7	4056.8	4059.6
45°	3510.9	3624.5	3727.1	3810.2	3849.0	3887.8	3962.6	4004.2	4031.9	4040.2
47.5°	3413.9	3541.4	3657.8	3771.4	3826.8	3876.7	3954.3	4012.5	4043.0	4048.5
50°	3333.6	3491.5	3635.6	3768.6	3837.9	3893.3	3998.6	4067.9	4101.2	4115.0
52.5°	3286.5	3477.7	3666.1	3837.9	3921.0	3990.3	4120.6	4198.2	4253.6	4259.1
55°	3294.8	3535.9	3771.4	3984.8	4067.9	4153.8	4273.0	4345.0	4392.1	4392.1
57.5°	3377.9	3666.1	3937.7	4134.4	4217.6	4284.1	4394.9	4442.0	4475.3	4483.6
60°	3527.6	3832.4	4067.9	4239.7	4295.1	4347.8	4408.8	4461.4	4475.3	4480.8
62.5°	3674.4	3934.9	4120.6	4239.7	4273.0	4317.3	4361.6	4392.1	4403.2	4403.2
65°	3752.0	3946.0	4059.6	4148.3	4184.3	4198.2	4245.3	4256.3	4281.3	4275.7
67.5°	3704.9	3829.6	3921.0	3995.9	4023.6	4051.3	4106.7	4134.4	4156.6	4162.1
70°	3544.2	3643.9	3740.9	3835.1	3871.2	3918.3	3984.8	4037.4	4062.4	4076.2
72.5°	3347.4	3466.6	3591.3	3704.9	3763.1	3807.4	3890.6	3959.8	3984.8	3998.6
75°	3145.2	3286.5	3430.6	3569.1	3630.1	3688.3	3788.0	3854.5	3898.9	3912.7
77.5°	2942.9	3114.7	3289.2	3447.2	3522.0	3583.0	3696.6	3768.6	3821.3	3826.8
80°	2754.4	2959.5	3153.5	3322.5	3397.3	3469.4	3583.0	3666.1	3693.8	3732.6
82.5°	2588.2	2801.5	2998.3	3175.6	3258.8	3322.5	3441.7	3527.6	3569.1	3591.3
85°	2408.0	2629.7	2829.3	3003.8	3089.7	3167.3	3278.2	3358.5	3416.7	3425.0
87.5°	2225.2	2446.8	2651.9	2832.0	2917.9	2990.0	3106.4	3183.9	3236.6	3253.2
90°	2031.2	2241.8	2438.5	2618.7	2690.7	2765.5	2876.4	2965.0	3020.5	3023.2
92.5°	1798.4	2000.7	2180.8	2349.9	2435.8	2491.2	2596.5	2687.9	2726.7	2743.3
95°	1501.9	1687.6	1859.4	2000.7	2086.6	2136.5	2239.0	2305.5	2349.9	2360.9
97.5°	1177.7	1321.8	1460.3	1585.0	1648.8	1690.3	1773.5	1831.7	1898.2	1881.5
100°	886.7	967.1	1066.9	1147.2	1194.3	1222.0	1283.0	1321.8	1360.6	1382.8
102.5°	642.9	703.8	748.2	789.8	823.0	850.7	897.8	911.7	922.8	950.5
105°	471.1	501.6	526.5	557.0	570.8	579.2	598.5	612.4	612.4	637.3
107.5°	354.7	368.6	379.6	396.3	396.3	404.6	404.6	407.3	415.7	410.1
110°	279.9	282.6	285.4	282.6	285.4	282.6	279.9	277.1	277.1	274.3



TEST NUMBER: P237898

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	232.8	230.0	227.2	218.9	216.1	210.6	207.8	202.3	196.7	196.7
115°	199.5	196.7	191.2	182.9	177.3	171.8	169.0	160.7	155.2	152.4
117.5°	177.3	174.6	169.0	160.7	158.0	152.4	146.9	138.6	133.0	130.2
120°	160.7	160.7	155.2	146.9	144.1	141.3	133.0	127.5	121.9	119.2
122.5°	144.1	144.1	141.3	135.8	133.0	130.2	124.7	119.2	113.6	113.6
125°	124.7	127.5	127.5	124.7	121.9	119.2	116.4	110.8	108.1	105.3
127.5°	108.1	110.8	113.6	113.6	110.8	110.8	105.3	102.5	99.8	99.8
130°	88.7	97.0	99.8	99.8	99.8	99.8	97.0	94.2	91.4	91.4
132.5°	72.0	77.6	83.1	85.9	85.9	85.9	83.1	83.1	80.4	80.4
135°	55.4	61.0	66.5	69.3	72.0	72.0	72.0	72.0	69.3	69.3
137.5°	41.6	47.1	52.7	55.4	55.4	58.2	58.2	58.2	55.4	55.4
140°	24.9	33.3	36.0	38.8	41.6	41.6	44.3	44.3	41.6	41.6
142.5°	13.9	19.4	22.2	24.9	27.7	27.7	30.5	27.7	27.7	27.7
145°	2.8	5.5	11.1	13.9	13.9	13.9	13.9	16.6	13.9	13.9
147.5°	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8	2.8	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)