

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: P237886

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-14)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-22-DR-W-UNV-L850-CD2-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% 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: 21109.0 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.59 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Direct

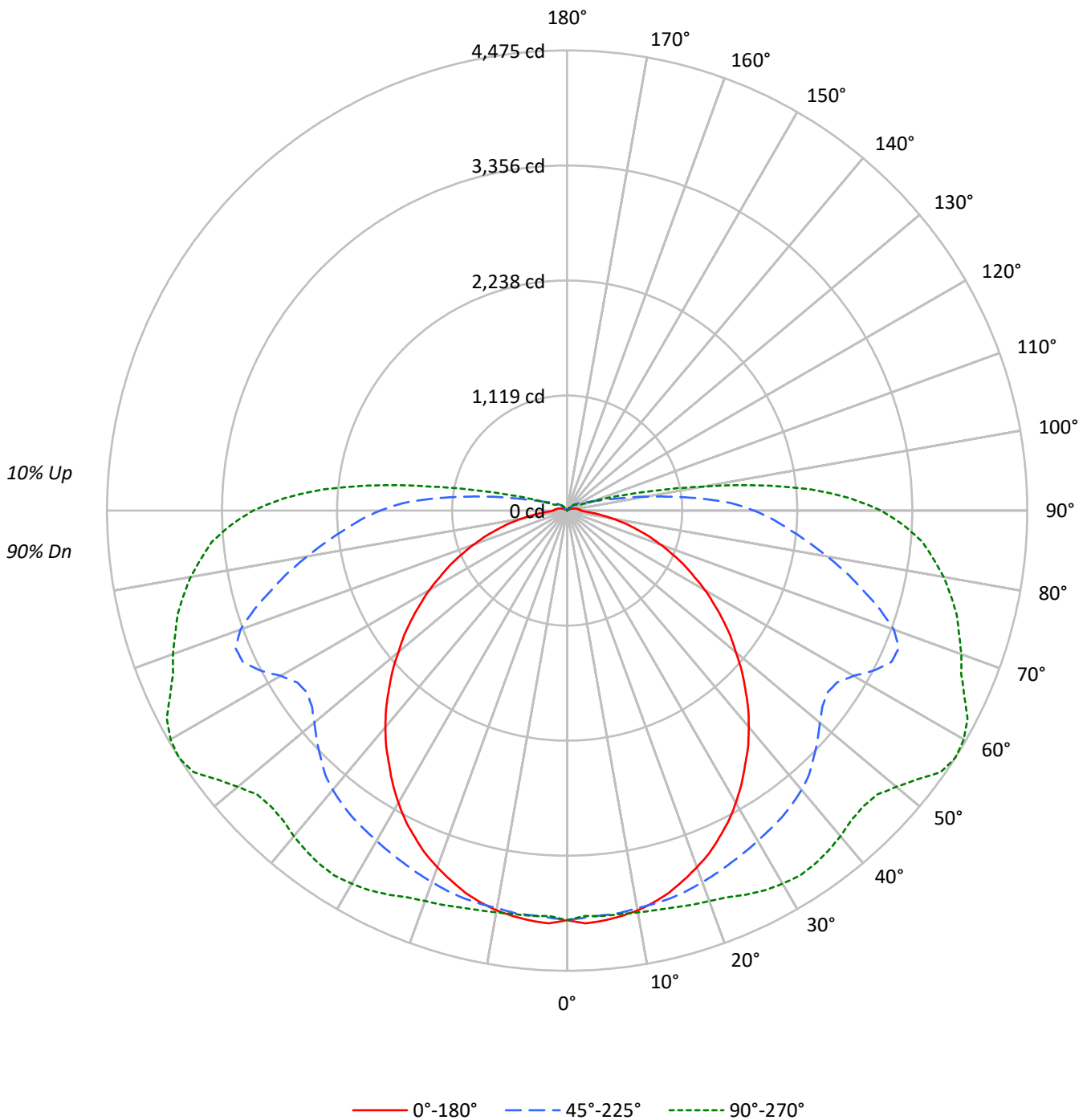
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10287	10287	10287
5°	10366	10028	9971
10°	10322	9866	9831
15°	10224	9780	9810
20°	10074	9692	9905
25°	9899	9642	10165
30°	9675	9666	10481
35°	9385	9773	10734
40°	9117	9888	10895
45°	8774	9914	11154
50°	8408	9938	12019
55°	8081	10247	13529
60°	7735	11592	14586
65°	7358	13853	15192
70°	6924	15141	16082
75°	6460	15357	17453
80°	5960	15794	19140
85°	5682	16743	21362



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.5	1.8
10°-20°	1108.0	5.2
20°-30°	1758.0	8.3
30°-40°	2274.7	10.8
40°-50°	2574.8	12.2
50°-60°	2827.2	13.4
60°-70°	3000.0	14.2
70°-80°	2812.5	13.3
80°-90°	2274.8	10.8
90°-100°	1409.4	6.7
100°-110°	442.1	2.1
110°-120°	140.6	0.7
120°-130°	73.0	0.3
130°-140°	30.6	0.1
140°-150°	4.8	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3244.5	15.4
0°-40°	5519.2	26.1
0°-60°	10921.2	51.7
0°-90°	19008.6	90.0
90°-120°	1992.1	9.4
90°-150°	2100.4	10.0
90°-180°	2100.0	9.9
0°-180°	21109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3982	3982	3982	3982	3982	
5°	4004	3990	3952	3968	3957	380
15°	3843	3860	3902	3988	3996	1083
25°	3505	3586	3777	4029	4120	1615
35°	3018	3212	3641	4073	4198	1890
45°	2450	2754	3392	3880	4071	1891
55°	1846	2250	3087	4115	4434	1651
65°	1255	1790	3480	4151	4262	1241
75°	696	1743	2973	3641	3924	742
85°	236	1178	2178	3131	3467	238
90°	133	878	1818	2716	3054	77
95°	116	610	1325	2073	2372	92
105°	78	216	416	549	596	83
115°	39	100	188	164	139	39
125°	14	33	116	116	100	14
135°	6	0	47	69	66	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: P237886

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0
2.5°	4018.0	4012.5	4004.2	4001.4	3998.6	3998.6	4001.4	3995.8	3987.5	3973.7	3962.6
5°	4004.2	3998.6	3990.3	3984.8	3990.3	3990.3	3993.1	3987.5	3976.4	3965.4	3951.5
7.5°	3979.2	3973.7	3965.4	3965.4	3962.6	3965.4	3965.4	3965.4	3959.8	3954.3	3946.0
10°	3948.7	3940.4	3937.7	3934.9	3937.7	3943.2	3943.2	3946.0	3940.4	3932.1	3926.6
12.5°	3901.6	3898.9	3890.5	3893.3	3896.1	3904.4	3909.9	3915.5	3918.3	3915.5	3915.5
15°	3843.4	3837.9	3835.1	3840.7	3857.3	3860.1	3865.6	3879.5	3885.0	3896.1	3901.6
17.5°	3768.6	3768.6	3768.6	3779.7	3799.1	3804.6	3815.7	3829.6	3843.4	3857.3	3876.7
20°	3691.0	3691.0	3691.0	3704.9	3727.1	3743.7	3754.8	3774.2	3796.3	3826.8	3846.2
22.5°	3607.9	3602.4	3602.4	3616.2	3649.5	3657.8	3679.9	3718.7	3752.0	3788.0	3813.0
25°	3505.4	3499.8	3508.1	3527.5	3566.3	3585.7	3610.7	3655.0	3688.3	3738.1	3776.9
27.5°	3402.8	3394.5	3405.6	3430.6	3483.2	3505.4	3535.9	3588.5	3627.3	3682.7	3743.7
30°	3280.9	3280.9	3294.8	3328.0	3380.7	3411.2	3444.4	3508.1	3560.8	3630.1	3707.7
32.5°	3156.2	3150.7	3175.6	3211.6	3280.9	3316.9	3353.0	3425.0	3491.5	3580.2	3674.4
35°	3017.7	3020.4	3045.4	3092.5	3175.6	3211.6	3250.4	3333.6	3422.2	3530.3	3641.1
37.5°	2890.2	2884.7	2917.9	2981.6	3062.0	3103.6	3145.1	3247.7	3347.4	3469.3	3596.8
40°	2748.9	2751.6	2782.1	2854.2	2937.3	2984.4	3031.5	3150.7	3269.8	3400.1	3546.9
42.5°	2604.8	2607.6	2649.1	2726.7	2818.2	2870.8	2929.0	3053.7	3189.5	3333.6	3483.2
45°	2449.6	2455.1	2505.0	2596.5	2687.9	2754.4	2818.2	2953.9	3106.3	3250.4	3391.8
47.5°	2302.7	2311.0	2374.8	2457.9	2563.2	2632.5	2701.8	2856.9	3006.6	3153.4	3303.1
50°	2142.0	2167.0	2222.4	2316.6	2435.7	2502.3	2579.8	2740.6	2898.5	3056.5	3208.9
52.5°	2000.7	2011.8	2081.1	2172.5	2300.0	2377.6	2449.6	2621.4	2787.7	2951.2	3128.5
55°	1845.5	1862.1	1937.0	2031.2	2164.2	2250.1	2330.4	2502.3	2685.1	2868.0	3086.9
57.5°	1693.1	1712.5	1792.9	1889.9	2036.7	2114.3	2208.5	2388.6	2588.2	2823.7	3111.9
60°	1549.0	1562.9	1637.7	1748.5	1900.9	1989.6	2086.6	2294.4	2538.3	2854.2	3214.4
62.5°	1393.8	1418.8	1488.0	1612.7	1787.3	1878.8	1989.6	2233.5	2557.7	2953.9	3366.8
65°	1255.3	1274.7	1352.3	1490.8	1676.5	1790.1	1917.6	2236.2	2649.1	3086.9	3480.4
67.5°	1108.4	1141.7	1222.0	1374.4	1593.3	1729.1	1892.6	2294.4	2762.7	3183.9	3491.5
70°	967.1	1000.3	1102.9	1283.0	1543.5	1715.3	1912.0	2383.1	2834.8	3170.1	3380.7
72.5°	834.1	867.3	997.6	1208.2	1526.8	1729.1	1953.6	2424.7	2793.2	3017.7	3186.7
75°	695.5	742.6	903.4	1158.3	1524.1	1743.0	1970.2	2355.4	2624.2	2812.6	2973.3
77.5°	576.4	634.6	820.2	1111.2	1501.9	1701.4	1876.0	2175.3	2405.3	2590.9	2776.6
80°	446.1	526.5	745.4	1050.2	1399.4	1557.3	1701.4	1945.3	2172.5	2369.2	2566.0
82.5°	332.5	432.3	656.7	950.5	1235.9	1368.9	1501.9	1729.1	1942.5	2147.6	2369.2
85°	235.5	338.1	562.5	814.7	1061.3	1177.7	1296.8	1518.5	1729.1	1948.0	2178.0
87.5°	166.3	263.2	462.8	687.2	908.9	1005.9	1116.7	1327.3	1549.0	1765.2	2006.2
90°	133.0	210.6	385.2	579.1	775.9	878.4	978.2	1180.5	1382.8	1593.3	1817.8
92.5°	127.5	174.6	318.7	487.7	659.5	748.2	836.9	1019.7	1205.4	1393.8	1607.2
95°	116.4	141.3	246.6	390.7	534.8	609.6	687.2	834.1	994.8	1152.8	1324.6
97.5°	108.1	116.4	191.2	304.8	421.2	473.8	532.0	656.7	770.3	892.3	1025.3
100°	97.0	99.8	144.1	227.2	321.4	368.5	418.4	501.6	587.5	684.4	775.9
102.5°	88.7	88.7	113.6	171.8	241.1	277.1	313.1	385.2	446.1	509.9	562.5
105°	77.6	77.6	91.4	130.2	185.7	216.1	243.9	293.7	343.6	385.2	415.7
107.5°	69.3	66.5	72.0	105.3	149.6	171.8	196.7	235.5	271.6	299.3	324.2
110°	58.2	58.2	58.2	85.9	121.9	141.3	160.7	194.0	224.5	243.9	254.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	47.1	47.1	47.1	69.3	99.8	119.2	135.8	166.3	191.2	207.8	216.1
115°	38.8	38.8	36.0	52.6	83.1	99.8	113.6	144.1	166.3	180.1	188.4
117.5°	30.5	30.5	30.5	38.8	66.5	80.4	97.0	121.9	146.9	160.7	169.0
120°	24.9	24.9	22.2	24.9	49.9	63.7	77.6	105.3	127.5	141.3	149.6
122.5°	19.4	19.4	16.6	16.6	36.0	47.1	61.0	85.9	108.1	121.9	133.0
125°	13.9	13.9	13.9	11.1	22.2	33.3	47.1	69.3	88.7	105.3	116.4
127.5°	11.1	11.1	11.1	8.3	11.1	19.4	30.5	52.6	72.0	85.9	97.0
130°	8.3	8.3	8.3	5.5	5.5	11.1	19.4	36.0	52.6	66.5	80.4
132.5°	8.3	8.3	5.5	5.5	2.8	2.8	8.3	22.2	38.8	49.9	61.0
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	13.9	22.2	30.5
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0	3982.0
2.5°	3957.0	3959.8	3965.4	3965.4	3962.6	3962.6	3959.8	3957.0	3951.5	3946.0
5°	3951.5	3957.0	3965.4	3968.1	3968.1	3965.4	3965.4	3965.4	3962.6	3957.0
7.5°	3948.7	3957.0	3965.4	3968.1	3970.9	3970.9	3968.1	3965.4	3959.8	3957.0
10°	3934.9	3951.5	3959.8	3968.1	3973.7	3973.7	3976.4	3976.4	3970.9	3968.1
12.5°	3929.3	3948.7	3962.6	3973.7	3982.0	3982.0	3987.5	3993.1	3976.4	3979.2
15°	3918.3	3946.0	3968.1	3982.0	3987.5	3990.3	3995.8	3998.6	3993.1	3995.8
17.5°	3904.4	3940.4	3962.6	3982.0	3984.8	3993.1	4009.7	4018.0	4018.0	4020.8
20°	3885.0	3926.6	3957.0	3987.5	3998.6	4006.9	4023.6	4040.2	4034.6	4040.2
22.5°	3862.8	3909.9	3954.3	3990.3	4004.2	4020.8	4048.5	4065.1	4073.4	4070.7
25°	3843.4	3904.4	3957.0	4012.5	4029.1	4051.3	4084.5	4106.7	4115.0	4120.5
27.5°	3821.3	3896.1	3968.1	4029.1	4056.8	4084.5	4126.1	4151.0	4159.3	4162.1
30°	3804.6	3898.9	3973.7	4045.7	4076.2	4106.7	4151.0	4176.0	4187.0	4189.8
32.5°	3788.0	3887.8	3973.7	4051.3	4081.7	4109.5	4162.1	4200.9	4209.2	4209.2
35°	3765.8	3865.6	3962.6	4043.0	4073.4	4103.9	4162.1	4192.6	4200.9	4198.1
37.5°	3727.1	3837.9	3937.7	4009.7	4040.2	4067.9	4126.1	4159.3	4173.2	4170.4
40°	3671.6	3785.2	3882.2	3962.6	3990.3	4020.8	4081.7	4109.5	4128.9	4134.4
42.5°	3605.1	3718.7	3815.7	3896.1	3932.1	3968.1	4029.1	4059.6	4081.7	4087.3
45°	3522.0	3638.4	3743.7	3837.9	3879.5	3915.5	3990.3	4043.0	4065.1	4070.7
47.5°	3436.1	3569.1	3688.3	3801.9	3854.5	3909.9	3993.1	4059.6	4090.1	4087.3
50°	3355.7	3516.5	3666.1	3815.7	3885.0	3948.7	4054.0	4126.1	4162.1	4178.7
52.5°	3316.9	3516.5	3716.0	3893.3	3973.7	4043.0	4167.6	4250.8	4292.3	4292.3
55°	3336.3	3594.0	3824.0	4029.1	4115.0	4189.8	4297.9	4378.2	4414.3	4433.7
57.5°	3425.0	3724.3	3970.9	4164.9	4245.2	4309.0	4408.7	4447.5	4486.3	4475.2
60°	3574.6	3860.1	4079.0	4248.0	4303.4	4336.7	4400.4	4433.7	4453.1	4453.1
62.5°	3699.3	3957.0	4109.5	4209.2	4259.1	4286.8	4339.5	4364.4	4389.3	4389.3
65°	3754.8	3923.8	4040.2	4128.9	4151.0	4184.3	4220.3	4245.2	4267.4	4261.9
67.5°	3688.3	3810.2	3901.6	3982.0	4009.7	4043.0	4087.3	4123.3	4142.7	4148.3
70°	3522.0	3638.4	3724.3	3824.0	3865.6	3907.2	3984.8	4037.4	4067.9	4079.0
72.5°	3328.0	3449.9	3583.0	3696.6	3760.3	3807.4	3893.3	3948.7	3990.3	3995.8
75°	3128.5	3280.9	3433.3	3577.4	3641.1	3707.7	3804.6	3868.4	3915.5	3923.8
77.5°	2948.4	3123.0	3311.4	3466.6	3544.2	3602.4	3707.7	3768.6	3818.5	3821.3
80°	2768.3	2973.3	3164.5	3325.3	3402.8	3477.7	3577.4	3657.8	3699.3	3718.7
82.5°	2593.7	2804.3	3009.4	3195.0	3264.3	3336.3	3449.9	3527.5	3574.6	3591.3
85°	2421.9	2651.9	2865.3	3045.4	3131.3	3203.3	3325.3	3397.3	3452.7	3466.6
87.5°	2241.8	2466.2	2679.6	2856.9	2945.6	3009.4	3134.0	3208.9	3264.3	3275.4
90°	2047.8	2258.4	2466.2	2632.5	2715.6	2784.9	2917.9	2987.2	3028.7	3053.7
92.5°	1806.7	2009.0	2200.2	2363.7	2449.6	2499.5	2624.2	2699.0	2743.3	2754.4
95°	1507.4	1679.3	1851.1	1997.9	2072.7	2147.6	2230.7	2302.7	2363.7	2372.0
97.5°	1163.8	1307.9	1449.3	1593.3	1640.5	1684.8	1754.1	1828.9	1884.3	1881.5
100°	867.3	950.5	1050.2	1125.0	1161.1	1210.9	1277.5	1321.8	1327.3	1344.0
102.5°	623.5	681.7	723.2	778.7	795.3	839.6	861.8	892.3	897.8	911.7
105°	451.7	482.2	512.6	534.8	548.7	551.4	568.1	590.2	595.8	595.8
107.5°	338.1	354.7	357.5	365.8	371.3	374.1	385.2	387.9	390.7	390.7
110°	266.0	268.8	263.2	263.2	260.5	260.5	257.7	254.9	252.2	252.2



TEST NUMBER: P237886

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	216.1	216.1	210.6	202.3	196.7	194.0	185.7	180.1	177.3	177.3
115°	188.4	182.9	177.3	169.0	163.5	160.7	152.4	146.9	141.3	138.6
117.5°	169.0	166.3	157.9	152.4	146.9	144.1	135.8	127.5	124.7	121.9
120°	152.4	149.6	146.9	138.6	135.8	133.0	124.7	119.2	113.6	113.6
122.5°	135.8	135.8	133.0	127.5	124.7	121.9	116.4	110.8	108.1	105.3
125°	121.9	121.9	121.9	119.2	116.4	113.6	108.1	105.3	102.5	99.8
127.5°	102.5	108.1	108.1	108.1	105.3	105.3	102.5	97.0	94.2	94.2
130°	85.9	91.4	94.2	94.2	94.2	94.2	91.4	88.7	85.9	85.9
132.5°	69.3	77.6	80.4	83.1	83.1	83.1	80.4	80.4	77.6	77.6
135°	55.4	61.0	66.5	69.3	69.3	69.3	69.3	69.3	66.5	66.5
137.5°	41.6	44.3	49.9	52.6	55.4	55.4	55.4	55.4	55.4	55.4
140°	24.9	30.5	36.0	38.8	41.6	41.6	41.6	41.6	41.6	41.6
142.5°	13.9	16.6	22.2	24.9	27.7	27.7	27.7	27.7	27.7	27.7
145°	2.8	5.5	11.1	13.9	13.9	13.9	13.9	13.9	13.9	13.9
147.5°	0.0	0.0	0.0	0.0	2.8	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)