

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: P237885

Luminaire Tested: **8VT2-LD5-22-DR-W-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237885
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: 8VT2-LD5-22-DR-W-UNV-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (448) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19914.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

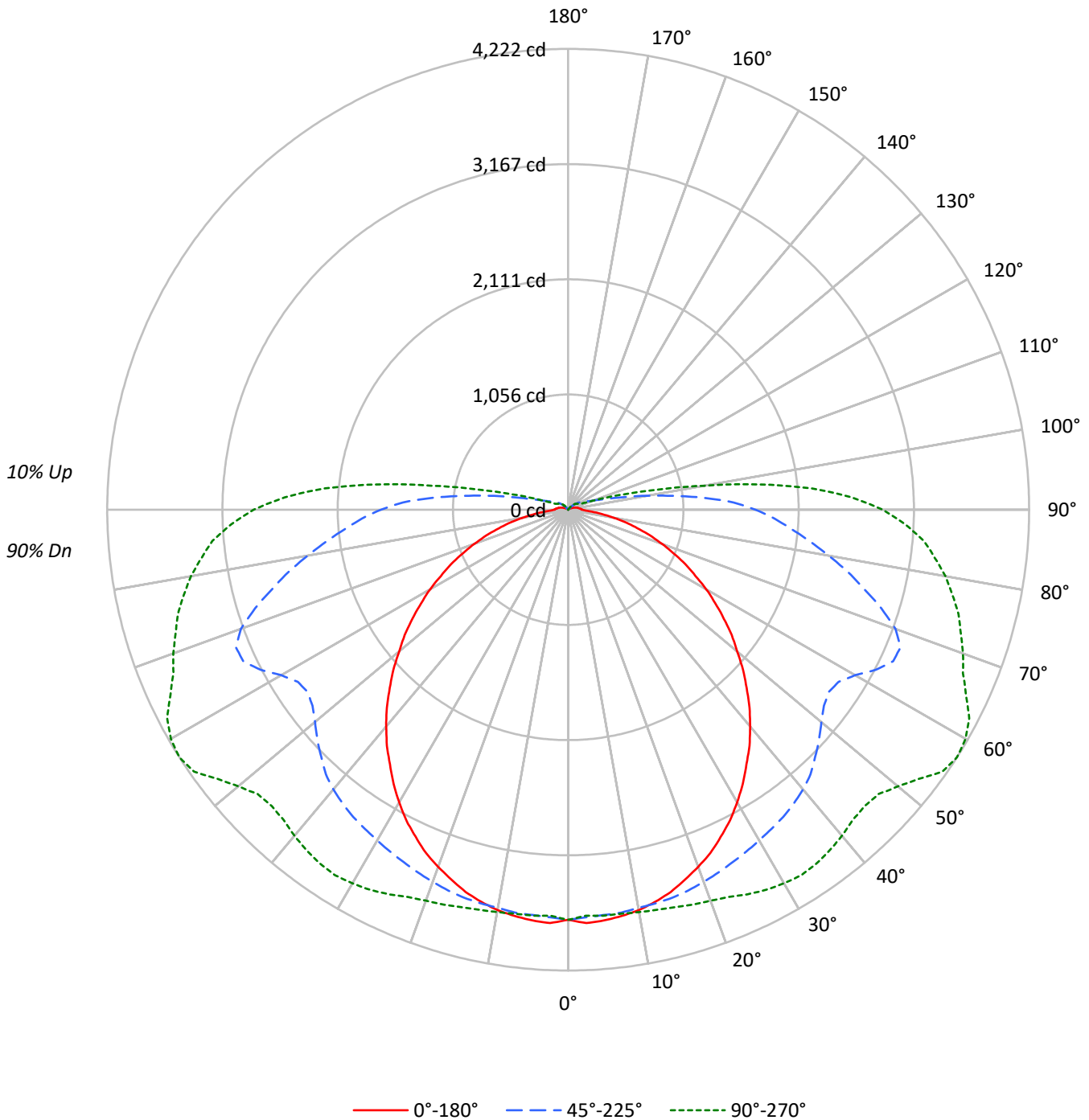
Input Watts (W): 164.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9705	9705	9705
5°	9779	9460	9406
10°	9738	9307	9275
15°	9646	9227	9255
20°	9504	9144	9345
25°	9339	9096	9590
30°	9128	9119	9888
35°	8854	9220	10127
40°	8601	9328	10278
45°	8277	9353	10522
50°	7932	9375	11339
55°	7624	9667	12763
60°	7297	10935	13761
65°	6941	13068	14332
70°	6532	14284	15171
75°	6095	14488	16465
80°	5624	14900	18056
85°	5361	15795	20152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.1	1.8
10°-20°	1045.3	5.2
20°-30°	1658.5	8.3
30°-40°	2146.0	10.8
40°-50°	2429.1	12.2
50°-60°	2667.2	13.4
60°-70°	2830.2	14.2
70°-80°	2653.3	13.3
80°-90°	2146.0	10.8
90°-100°	1329.6	6.7
100°-110°	417.1	2.1
110°-120°	132.7	0.7
120°-130°	68.9	0.3
130°-140°	28.8	0.1
140°-150°	4.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3060.8	15.4
0°-40°	5206.8	26.1
0°-60°	10303.0	51.7
0°-90°	17932.5	90.0
90°-120°	1879.3	9.4
90°-150°	1981.5	10.0
90°-180°	1982.0	10.0
0°-180°	19914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3757	3757	3757	3757	3757	
5°	3778	3764	3728	3744	3733	359
15°	3626	3642	3681	3762	3770	1022
25°	3307	3383	3563	3801	3887	1523
35°	2847	3030	3435	3843	3960	1783
45°	2311	2598	3200	3660	3840	1784
55°	1741	2123	2912	3882	4183	1558
65°	1184	1689	3283	3916	4021	1171
75°	656	1644	2805	3435	3702	700
85°	222	1111	2055	2954	3270	224
90°	126	829	1715	2562	2881	72
95°	110	575	1250	1955	2238	87
105°	73	204	392	518	562	78
115°	37	94	178	154	131	37
125°	13	31	110	110	94	13
135°	5	0	44	65	63	5
145°	3	0	0	13	13	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6
2.5°	3790.5	3785.3	3777.5	3774.9	3772.2	3772.2	3774.9	3769.6	3761.8	3748.7	3738.3
5°	3777.5	3772.2	3764.4	3759.2	3764.4	3764.4	3767.0	3761.8	3751.3	3740.9	3727.8
7.5°	3754.0	3748.7	3740.9	3740.9	3738.3	3740.9	3740.9	3740.9	3735.7	3730.4	3722.6
10°	3725.2	3717.4	3714.7	3712.1	3714.7	3720.0	3720.0	3722.6	3717.4	3709.5	3704.3
12.5°	3680.8	3678.1	3670.3	3672.9	3675.5	3683.4	3688.6	3693.8	3696.4	3693.8	3693.8
15°	3625.9	3620.6	3618.0	3623.2	3638.9	3641.5	3646.8	3659.8	3665.1	3675.5	3680.8
17.5°	3555.3	3555.3	3555.3	3565.7	3584.0	3589.3	3599.7	3612.8	3625.9	3638.9	3657.2
20°	3482.1	3482.1	3482.1	3495.1	3516.1	3531.7	3542.2	3560.5	3581.4	3610.2	3628.5
22.5°	3403.7	3398.4	3398.4	3411.5	3442.9	3450.7	3471.6	3508.2	3539.6	3573.6	3597.1
25°	3306.9	3301.7	3309.5	3327.8	3364.4	3382.7	3406.3	3448.1	3479.5	3526.5	3563.1
27.5°	3210.2	3202.4	3212.8	3236.3	3286.0	3306.9	3335.7	3385.4	3422.0	3474.2	3531.7
30°	3095.2	3095.2	3108.2	3139.6	3189.3	3218.0	3249.4	3309.5	3359.2	3424.6	3497.8
32.5°	2977.5	2972.3	2995.8	3029.8	3095.2	3129.2	3163.1	3231.1	3293.9	3377.5	3466.4
35°	2846.8	2849.4	2873.0	2917.4	2995.8	3029.8	3066.4	3144.8	3228.5	3330.5	3435.0
37.5°	2726.6	2721.4	2752.7	2812.8	2888.7	2927.9	2967.1	3063.8	3157.9	3272.9	3393.2
40°	2593.3	2595.9	2624.6	2692.6	2771.0	2815.5	2859.9	2972.3	3084.7	3207.6	3346.1
42.5°	2457.3	2459.9	2499.1	2572.3	2658.6	2708.3	2763.2	2880.8	3008.9	3144.8	3286.0
45°	2310.9	2316.2	2363.2	2449.5	2535.7	2598.5	2658.6	2786.7	2930.5	3066.4	3199.7
47.5°	2172.4	2180.2	2240.3	2318.8	2418.1	2483.5	2548.8	2695.2	2836.4	2974.9	3116.1
50°	2020.8	2044.3	2096.6	2185.4	2297.9	2360.6	2433.8	2585.4	2734.4	2883.4	3027.2
52.5°	1887.4	1897.9	1963.2	2049.5	2169.8	2243.0	2310.9	2473.0	2629.9	2784.1	2951.4
55°	1741.0	1756.7	1827.3	1916.2	2041.7	2122.7	2198.5	2360.6	2533.1	2705.7	2912.2
57.5°	1597.3	1615.6	1691.4	1782.9	1921.4	1994.6	2083.5	2253.4	2441.6	2663.8	2935.7
60°	1461.3	1474.4	1545.0	1649.5	1793.3	1877.0	1968.5	2164.5	2394.6	2692.6	3032.4
62.5°	1314.9	1338.5	1403.8	1521.4	1686.1	1772.4	1877.0	2107.0	2412.9	2786.7	3176.2
65°	1184.2	1202.5	1275.7	1406.4	1581.6	1688.8	1809.0	2109.6	2499.1	2912.2	3283.4
67.5°	1045.7	1077.0	1152.8	1296.6	1503.1	1631.2	1785.5	2164.5	2606.3	3003.7	3293.9
70°	912.3	943.7	1040.4	1210.4	1456.1	1618.2	1803.8	2248.2	2674.3	2990.6	3189.3
72.5°	786.9	818.2	941.1	1139.8	1440.4	1631.2	1843.0	2287.4	2635.1	2846.8	3006.3
75°	656.2	700.6	852.2	1092.7	1437.8	1644.3	1858.7	2222.0	2475.6	2653.4	2805.0
77.5°	543.7	598.6	773.8	1048.3	1416.9	1605.1	1769.8	2052.1	2269.1	2444.3	2619.4
80°	420.9	496.7	703.2	990.8	1320.2	1469.2	1605.1	1835.1	2049.5	2235.1	2420.7
82.5°	313.7	407.8	619.6	896.7	1165.9	1291.4	1416.9	1631.2	1832.5	2026.0	2235.1
85°	222.2	318.9	530.7	768.6	1001.2	1111.0	1223.4	1432.6	1631.2	1837.8	2054.7
87.5°	156.9	248.3	436.6	648.3	857.4	948.9	1053.5	1252.2	1461.3	1665.2	1892.7
90°	125.5	198.7	363.4	546.4	732.0	828.7	922.8	1113.6	1304.5	1503.1	1714.9
92.5°	120.3	164.7	300.6	460.1	622.2	705.8	789.5	962.0	1137.2	1314.9	1516.2
95°	109.8	133.3	232.7	368.6	504.5	575.1	648.3	786.9	938.5	1087.5	1249.6
97.5°	102.0	109.8	180.4	287.6	397.4	447.0	501.9	619.6	726.7	841.8	967.2
100°	91.5	94.1	135.9	214.4	303.2	347.7	394.7	473.2	554.2	645.7	732.0
102.5°	83.7	83.7	107.2	162.1	227.4	261.4	295.4	363.4	420.9	481.0	530.7
105°	73.2	73.2	86.3	122.9	175.1	203.9	230.0	277.1	324.2	363.4	392.1
107.5°	65.4	62.7	68.0	99.3	141.2	162.1	185.6	222.2	256.2	282.3	305.9
110°	54.9	54.9	54.9	81.0	115.0	133.3	151.6	183.0	211.7	230.0	240.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	44.4	44.4	44.4	65.4	94.1	112.4	128.1	156.9	180.4	196.1	203.9
115°	36.6	36.6	34.0	49.7	78.4	94.1	107.2	135.9	156.9	169.9	177.8
117.5°	28.8	28.8	28.8	36.6	62.7	75.8	91.5	115.0	138.6	151.6	159.5
120°	23.5	23.5	20.9	23.5	47.1	60.1	73.2	99.3	120.3	133.3	141.2
122.5°	18.3	18.3	15.7	15.7	34.0	44.4	57.5	81.0	102.0	115.0	125.5
125°	13.1	13.1	13.1	10.5	20.9	31.4	44.4	65.4	83.7	99.3	109.8
127.5°	10.5	10.5	10.5	7.8	10.5	18.3	28.8	49.7	68.0	81.0	91.5
130°	7.8	7.8	7.8	5.2	5.2	10.5	18.3	34.0	49.7	62.7	75.8
132.5°	7.8	7.8	5.2	5.2	2.6	2.6	7.8	20.9	36.6	47.1	57.5
135°	5.2	5.2	5.2	2.6	2.6	0.0	0.0	10.5	23.5	34.0	44.4
137.5°	5.2	5.2	2.6	2.6	0.0	0.0	0.0	2.6	13.1	20.9	28.8
140°	5.2	2.6	2.6	2.6	0.0	0.0	0.0	0.0	2.6	10.5	18.3
142.5°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2
145°	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.6	2.6	2.6	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°	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6
2.5°	3733.0	3735.7	3740.9	3740.9	3738.3	3738.3	3735.7	3733.0	3727.8	3722.6
5°	3727.8	3733.0	3740.9	3743.5	3743.5	3740.9	3740.9	3740.9	3738.3	3733.0
7.5°	3725.2	3733.0	3740.9	3743.5	3746.1	3746.1	3743.5	3740.9	3735.7	3733.0
10°	3712.1	3727.8	3735.7	3743.5	3748.7	3748.7	3751.3	3751.3	3746.1	3743.5
12.5°	3706.9	3725.2	3738.3	3748.7	3756.6	3756.6	3761.8	3767.0	3751.3	3754.0
15°	3696.4	3722.6	3743.5	3756.6	3761.8	3764.4	3769.6	3772.2	3767.0	3769.6
17.5°	3683.4	3717.4	3738.3	3756.6	3759.2	3767.0	3782.7	3790.5	3790.5	3793.2
20°	3665.1	3704.3	3733.0	3761.8	3772.2	3780.1	3795.8	3811.5	3806.2	3811.5
22.5°	3644.2	3688.6	3730.4	3764.4	3777.5	3793.2	3819.3	3835.0	3842.8	3840.2
25°	3625.9	3683.4	3733.0	3785.3	3801.0	3821.9	3853.3	3874.2	3882.0	3887.3
27.5°	3604.9	3675.5	3743.5	3801.0	3827.1	3853.3	3892.5	3916.0	3923.9	3926.5
30°	3589.3	3678.1	3748.7	3816.7	3845.4	3874.2	3916.0	3939.6	3950.0	3952.6
32.5°	3573.6	3667.7	3748.7	3821.9	3850.7	3876.8	3926.5	3963.1	3970.9	3970.9
35°	3552.7	3646.8	3738.3	3814.1	3842.8	3871.6	3926.5	3955.2	3963.1	3960.5
37.5°	3516.1	3620.6	3714.7	3782.7	3811.5	3837.6	3892.5	3923.9	3936.9	3934.3
40°	3463.8	3571.0	3662.5	3738.3	3764.4	3793.2	3850.7	3876.8	3895.1	3900.3
42.5°	3401.0	3508.2	3599.7	3675.5	3709.5	3743.5	3801.0	3829.8	3850.7	3855.9
45°	3322.6	3432.4	3531.7	3620.6	3659.8	3693.8	3764.4	3814.1	3835.0	3840.2
47.5°	3241.6	3367.1	3479.5	3586.6	3636.3	3688.6	3767.0	3829.8	3858.5	3855.9
50°	3165.8	3317.4	3458.5	3599.7	3665.1	3725.2	3824.5	3892.5	3926.5	3942.2
52.5°	3129.2	3317.4	3505.6	3672.9	3748.7	3814.1	3931.7	4010.1	4049.4	4049.4
55°	3147.5	3390.6	3607.6	3801.0	3882.0	3952.6	4054.6	4130.4	4164.4	4182.7
57.5°	3231.1	3513.4	3746.1	3929.1	4004.9	4065.0	4159.1	4195.7	4232.3	4221.9
60°	3372.3	3641.5	3848.1	4007.5	4059.8	4091.2	4151.3	4182.7	4201.0	4201.0
62.5°	3489.9	3733.0	3876.8	3970.9	4018.0	4044.1	4093.8	4117.3	4140.8	4140.8
65°	3542.2	3701.7	3811.5	3895.1	3916.0	3947.4	3981.4	4004.9	4025.8	4020.6
67.5°	3479.5	3594.5	3680.8	3756.6	3782.7	3814.1	3855.9	3889.9	3908.2	3913.4
70°	3322.6	3432.4	3513.4	3607.6	3646.8	3686.0	3759.2	3808.8	3837.6	3848.1
72.5°	3139.6	3254.6	3380.1	3487.3	3547.4	3591.9	3672.9	3725.2	3764.4	3769.6
75°	2951.4	3095.2	3239.0	3374.9	3435.0	3497.8	3589.3	3649.4	3693.8	3701.7
77.5°	2781.5	2946.2	3123.9	3270.3	3343.5	3398.4	3497.8	3555.3	3602.3	3604.9
80°	2611.6	2805.0	2985.4	3137.0	3210.2	3280.8	3374.9	3450.7	3489.9	3508.2
82.5°	2446.9	2645.5	2839.0	3014.1	3079.5	3147.5	3254.6	3327.8	3372.3	3388.0
85°	2284.8	2501.8	2703.1	2873.0	2954.0	3022.0	3137.0	3205.0	3257.3	3270.3
87.5°	2114.9	2326.6	2527.9	2695.2	2778.9	2839.0	2956.6	3027.2	3079.5	3090.0
90°	1931.9	2130.5	2326.6	2483.5	2561.9	2627.2	2752.7	2818.1	2857.3	2880.8
92.5°	1704.4	1895.3	2075.7	2229.9	2310.9	2358.0	2475.6	2546.2	2588.0	2598.5
95°	1422.1	1584.2	1746.3	1884.8	1955.4	2026.0	2104.4	2172.4	2229.9	2237.7
97.5°	1098.0	1233.9	1367.2	1503.1	1547.6	1589.4	1654.8	1725.4	1777.6	1775.0
100°	818.2	896.7	990.8	1061.4	1095.3	1142.4	1205.1	1247.0	1252.2	1267.9
102.5°	588.2	643.1	682.3	734.6	750.3	792.1	813.0	841.8	847.0	860.1
105°	426.1	454.9	483.6	504.5	517.6	520.2	535.9	556.8	562.0	562.0
107.5°	318.9	334.6	337.2	345.1	350.3	352.9	363.4	366.0	368.6	368.6
110°	251.0	253.6	248.3	248.3	245.7	245.7	243.1	240.5	237.9	237.9



TEST NUMBER: P237885

CATALOG NUMBER: 8VT2-LD5-22-DR-W-UNV-L840-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	203.9	203.9	198.7	190.8	185.6	183.0	175.1	169.9	167.3	167.3
115°	177.8	172.5	167.3	159.5	154.2	151.6	143.8	138.6	133.3	130.7
117.5°	159.5	156.9	149.0	143.8	138.6	135.9	128.1	120.3	117.6	115.0
120°	143.8	141.2	138.6	130.7	128.1	125.5	117.6	112.4	107.2	107.2
122.5°	128.1	128.1	125.5	120.3	117.6	115.0	109.8	104.6	102.0	99.3
125°	115.0	115.0	115.0	112.4	109.8	107.2	102.0	99.3	96.7	94.1
127.5°	96.7	102.0	102.0	102.0	99.3	99.3	96.7	91.5	88.9	88.9
130°	81.0	86.3	88.9	88.9	88.9	88.9	86.3	83.7	81.0	81.0
132.5°	65.4	73.2	75.8	78.4	78.4	78.4	75.8	75.8	73.2	73.2
135°	52.3	57.5	62.7	65.4	65.4	65.4	65.4	65.4	62.7	62.7
137.5°	39.2	41.8	47.1	49.7	52.3	52.3	52.3	52.3	52.3	52.3
140°	23.5	28.8	34.0	36.6	39.2	39.2	39.2	39.2	39.2	39.2
142.5°	13.1	15.7	20.9	23.5	26.1	26.1	26.1	26.1	26.1	26.1
145°	2.6	5.2	10.5	13.1	13.1	13.1	13.1	13.1	13.1	13.1
147.5°	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	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)