

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: P237883

Luminaire Tested: **8VT2-LD5-16-DR-W-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237883
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-LD5-16-DR-W-UNV-L850-CD2-WL-U
Description: METALUX VT2 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: 16150.0 lumens
Efficiency: N/A
Efficacy: 138.0 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

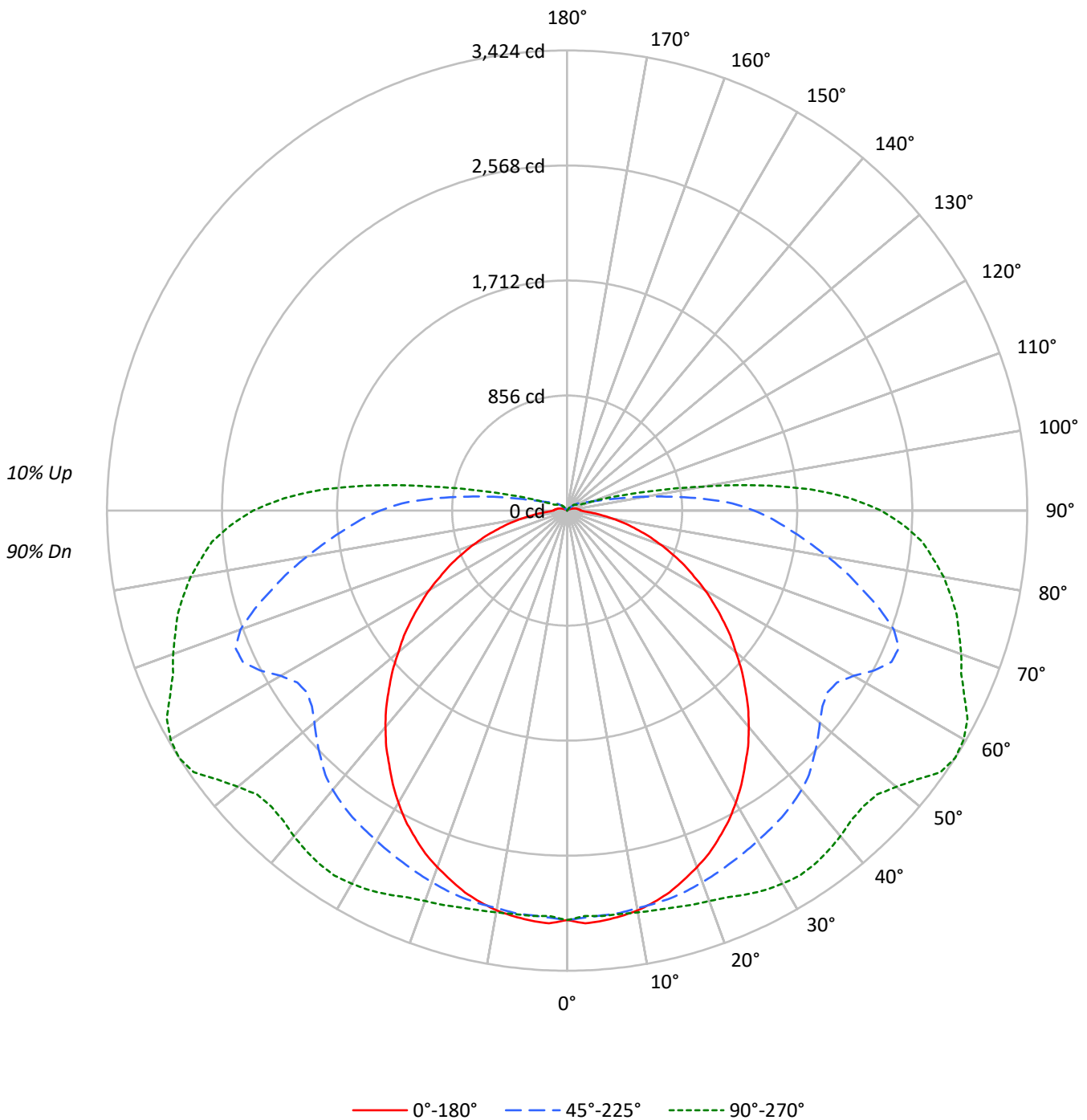
Input Watts (W): 117
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7870	7870	7870
5°	7930	7672	7628
10°	7897	7548	7522
15°	7822	7482	7506
20°	7707	7415	7578
25°	7574	7377	7777
30°	7402	7395	8019
35°	7180	7477	8212
40°	6975	7565	8336
45°	6713	7585	8534
50°	6433	7603	9196
55°	6183	7840	10350
60°	5918	8869	11159
65°	5629	10598	11623
70°	5298	11584	12303
75°	4942	11750	13353
80°	4560	12084	14644
85°	4347	12810	16343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	1.8
10°-20°	847.7	5.2
20°-30°	1345.0	8.3
30°-40°	1740.3	10.8
40°-50°	1969.9	12.2
50°-60°	2163.0	13.4
60°-70°	2295.3	14.2
70°-80°	2151.8	13.3
80°-90°	1740.4	10.8
90°-100°	1078.3	6.7
100°-110°	338.2	2.1
110°-120°	107.6	0.7
120°-130°	55.8	0.3
130°-140°	23.4	0.1
140°-150°	3.6	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2482.3	15.4
0°-40°	4222.6	26.1
0°-60°	8355.6	51.7
0°-90°	14543.0	90.0
90°-120°	1524.1	9.4
90°-150°	1607.0	10.0
90°-180°	1607.0	10.0
0°-180°	16150.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3046	3046	3046	3046	3046	
5°	3064	3053	3023	3036	3027	291
15°	2940	2953	2985	3051	3057	828
25°	2682	2743	2890	3083	3152	1235
35°	2309	2457	2786	3116	3212	1446
45°	1874	2107	2595	2968	3114	1447
55°	1412	1722	2362	3148	3392	1263
65°	960	1370	2663	3176	3261	949
75°	532	1334	2275	2786	3002	568
85°	180	901	1666	2396	2652	182
90°	102	672	1391	2078	2336	59
95°	89	466	1013	1586	1815	70
105°	59	165	318	420	456	63
115°	30	76	144	125	106	30
125°	11	25	89	89	76	11
135°	4	0	36	53	51	4
145°	2	0	0	11	11	1
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°	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5
2.5°	3074.1	3069.8	3063.5	3061.4	3059.2	3059.2	3061.4	3057.1	3050.8	3040.2	3031.7
5°	3063.5	3059.2	3052.9	3048.6	3052.9	3052.9	3055.0	3050.8	3042.3	3033.8	3023.2
7.5°	3044.4	3040.2	3033.8	3033.8	3031.7	3033.8	3033.8	3033.8	3029.6	3025.3	3019.0
10°	3021.1	3014.7	3012.6	3010.5	3012.6	3016.8	3016.8	3019.0	3014.7	3008.4	3004.1
12.5°	2985.0	2982.9	2976.6	2978.7	2980.8	2987.2	2991.4	2995.6	2997.8	2995.6	2995.6
15°	2940.5	2936.3	2934.2	2938.4	2951.1	2953.2	2957.5	2968.1	2972.3	2980.8	2985.0
17.5°	2883.3	2883.3	2883.3	2891.8	2906.6	2910.8	2919.3	2929.9	2940.5	2951.1	2966.0
20°	2823.9	2823.9	2823.9	2834.5	2851.5	2864.2	2872.7	2887.5	2904.5	2927.8	2942.6
22.5°	2760.3	2756.1	2756.1	2766.7	2792.1	2798.5	2815.4	2845.1	2870.6	2898.1	2917.2
25°	2681.9	2677.6	2684.0	2698.8	2728.5	2743.4	2762.4	2796.4	2821.8	2860.0	2889.6
27.5°	2603.4	2597.1	2605.6	2624.6	2664.9	2681.9	2705.2	2745.5	2775.2	2817.6	2864.2
30°	2510.2	2510.2	2520.8	2546.2	2586.5	2609.8	2635.2	2684.0	2724.3	2777.3	2836.6
32.5°	2414.7	2410.5	2429.6	2457.1	2510.2	2537.7	2565.3	2620.4	2671.3	2739.1	2811.2
35°	2308.7	2310.9	2329.9	2366.0	2429.6	2457.1	2486.8	2550.4	2618.3	2701.0	2785.8
37.5°	2211.2	2207.0	2232.4	2281.2	2342.7	2374.5	2406.3	2484.7	2561.0	2654.3	2751.8
40°	2103.1	2105.2	2128.5	2183.7	2247.3	2283.3	2319.3	2410.5	2501.7	2601.3	2713.7
42.5°	1992.9	1995.0	2026.8	2086.1	2156.1	2196.4	2240.9	2336.3	2440.2	2550.4	2664.9
45°	1874.1	1878.4	1916.5	1986.5	2056.5	2107.3	2156.1	2260.0	2376.6	2486.8	2595.0
47.5°	1761.8	1768.1	1816.9	1880.5	1961.1	2014.1	2067.1	2185.8	2300.3	2412.6	2527.1
50°	1638.8	1657.9	1700.3	1772.4	1863.5	1914.4	1973.8	2096.7	2217.6	2338.4	2455.0
52.5°	1530.7	1539.2	1592.2	1662.1	1759.6	1819.0	1874.1	2005.6	2132.8	2257.9	2393.5
55°	1412.0	1424.7	1481.9	1554.0	1655.8	1721.5	1783.0	1914.4	2054.3	2194.3	2361.7
57.5°	1295.4	1310.2	1371.7	1445.9	1558.2	1617.6	1689.7	1827.5	1980.1	2160.3	2380.8
60°	1185.1	1195.7	1253.0	1337.8	1454.4	1522.2	1596.4	1755.4	1942.0	2183.7	2459.3
62.5°	1066.4	1085.5	1138.5	1233.9	1367.4	1437.4	1522.2	1708.8	1956.8	2260.0	2575.9
65°	960.4	975.2	1034.6	1140.6	1282.6	1369.6	1467.1	1710.9	2026.8	2361.7	2662.8
67.5°	848.0	873.5	934.9	1051.5	1219.0	1322.9	1448.0	1755.4	2113.7	2435.9	2671.3
70°	739.9	765.3	843.8	981.6	1180.9	1312.3	1462.8	1823.3	2168.8	2425.3	2586.5
72.5°	638.1	663.6	763.2	924.3	1168.2	1322.9	1494.6	1855.1	2137.0	2308.7	2438.1
75°	532.1	568.2	691.1	886.2	1166.0	1333.5	1507.4	1802.1	2007.7	2151.9	2274.8
77.5°	441.0	485.5	627.5	850.1	1149.1	1301.7	1435.3	1664.2	1840.2	1982.3	2124.3
80°	341.3	402.8	570.3	803.5	1070.6	1191.5	1301.7	1488.3	1662.1	1812.7	1963.2
82.5°	254.4	330.7	502.5	727.2	945.5	1047.3	1149.1	1322.9	1486.2	1643.0	1812.7
85°	180.2	258.6	430.4	623.3	812.0	901.0	992.2	1161.8	1322.9	1490.4	1666.4
87.5°	127.2	201.4	354.0	525.8	695.4	769.6	854.4	1015.5	1185.1	1350.5	1534.9
90°	101.8	161.1	294.7	443.1	593.6	672.1	748.4	903.1	1057.9	1219.0	1390.8
92.5°	97.5	133.6	243.8	373.1	504.6	572.4	640.3	780.2	922.2	1066.4	1229.6
95°	89.0	108.1	188.7	298.9	409.2	466.4	525.8	638.1	761.1	881.9	1013.4
97.5°	82.7	89.0	146.3	233.2	322.2	362.5	407.1	502.5	589.4	682.7	784.4
100°	74.2	76.3	110.2	173.8	245.9	282.0	320.1	383.7	449.5	523.7	593.6
102.5°	67.8	67.8	86.9	131.4	184.4	212.0	239.6	294.7	341.3	390.1	430.4
105°	59.4	59.4	70.0	99.6	142.0	165.4	186.6	224.7	262.9	294.7	318.0
107.5°	53.0	50.9	55.1	80.6	114.5	131.4	150.5	180.2	207.8	229.0	248.0
110°	44.5	44.5	44.5	65.7	93.3	108.1	123.0	148.4	171.7	186.6	195.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	36.0	36.0	36.0	53.0	76.3	91.2	103.9	127.2	146.3	159.0	165.4
115°	29.7	29.7	27.6	40.3	63.6	76.3	86.9	110.2	127.2	137.8	144.2
117.5°	23.3	23.3	23.3	29.7	50.9	61.5	74.2	93.3	112.4	123.0	129.3
120°	19.1	19.1	17.0	19.1	38.2	48.8	59.4	80.6	97.5	108.1	114.5
122.5°	14.8	14.8	12.7	12.7	27.6	36.0	46.6	65.7	82.7	93.3	101.8
125°	10.6	10.6	10.6	8.5	17.0	25.4	36.0	53.0	67.8	80.6	89.0
127.5°	8.5	8.5	8.5	6.4	8.5	14.8	23.3	40.3	55.1	65.7	74.2
130°	6.4	6.4	6.4	4.2	4.2	8.5	14.8	27.6	40.3	50.9	61.5
132.5°	6.4	6.4	4.2	4.2	2.1	2.1	6.4	17.0	29.7	38.2	46.6
135°	4.2	4.2	4.2	2.1	2.1	0.0	0.0	8.5	19.1	27.6	36.0
137.5°	4.2	4.2	2.1	2.1	0.0	0.0	0.0	2.1	10.6	17.0	23.3
140°	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1	8.5	14.8
142.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
145°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.1	2.1	2.1	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°	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5	3046.5
2.5°	3027.4	3029.6	3033.8	3033.8	3031.7	3031.7	3029.6	3027.4	3023.2	3019.0
5°	3023.2	3027.4	3033.8	3035.9	3035.9	3033.8	3033.8	3033.8	3031.7	3027.4
7.5°	3021.1	3027.4	3033.8	3035.9	3038.0	3038.0	3035.9	3033.8	3029.6	3027.4
10°	3010.5	3023.2	3029.6	3035.9	3040.2	3040.2	3042.3	3042.3	3038.0	3035.9
12.5°	3006.2	3021.1	3031.7	3040.2	3046.5	3046.5	3050.8	3055.0	3042.3	3044.4
15°	2997.8	3019.0	3035.9	3046.5	3050.8	3052.9	3057.1	3059.2	3055.0	3057.1
17.5°	2987.2	3014.7	3031.7	3046.5	3048.6	3055.0	3067.7	3074.1	3074.1	3076.2
20°	2972.3	3004.1	3027.4	3050.8	3059.2	3065.6	3078.3	3091.0	3086.8	3091.0
22.5°	2955.4	2991.4	3025.3	3052.9	3063.5	3076.2	3097.4	3110.1	3116.5	3114.4
25°	2940.5	2987.2	3027.4	3069.8	3082.6	3099.5	3125.0	3141.9	3148.3	3152.5
27.5°	2923.6	2980.8	3035.9	3082.6	3103.8	3125.0	3156.8	3175.8	3182.2	3184.3
30°	2910.8	2982.9	3040.2	3095.3	3118.6	3141.9	3175.8	3194.9	3203.4	3205.5
32.5°	2898.1	2974.4	3040.2	3099.5	3122.8	3144.0	3184.3	3214.0	3220.4	3220.4
35°	2881.2	2957.5	3031.7	3093.2	3116.5	3139.8	3184.3	3207.7	3214.0	3211.9
37.5°	2851.5	2936.3	3012.6	3067.7	3091.0	3112.2	3156.8	3182.2	3192.8	3190.7
40°	2809.1	2896.0	2970.2	3031.7	3052.9	3076.2	3122.8	3144.0	3158.9	3163.1
42.5°	2758.2	2845.1	2919.3	2980.8	3008.4	3035.9	3082.6	3105.9	3122.8	3127.1
45°	2694.6	2783.6	2864.2	2936.3	2968.1	2995.6	3052.9	3093.2	3110.1	3114.4
47.5°	2628.9	2730.6	2821.8	2908.7	2949.0	2991.4	3055.0	3105.9	3129.2	3127.1
50°	2567.4	2690.4	2804.8	2919.3	2972.3	3021.1	3101.6	3156.8	3184.3	3197.0
52.5°	2537.7	2690.4	2843.0	2978.7	3040.2	3093.2	3188.6	3252.2	3284.0	3284.0
55°	2552.6	2749.7	2925.7	3082.6	3148.3	3205.5	3288.2	3349.7	3377.3	3392.1
57.5°	2620.4	2849.4	3038.0	3186.4	3247.9	3296.7	3373.0	3402.7	3432.4	3423.9
60°	2734.9	2953.2	3120.7	3250.1	3292.5	3317.9	3366.7	3392.1	3406.9	3406.9
62.5°	2830.3	3027.4	3144.0	3220.4	3258.5	3279.7	3320.0	3339.1	3358.2	3358.2
65°	2872.7	3002.0	3091.0	3158.9	3175.8	3201.3	3228.9	3247.9	3264.9	3260.7
67.5°	2821.8	2915.1	2985.0	3046.5	3067.7	3093.2	3127.1	3154.6	3169.5	3173.7
70°	2694.6	2783.6	2849.4	2925.7	2957.5	2989.3	3048.6	3088.9	3112.2	3120.7
72.5°	2546.2	2639.5	2741.2	2828.2	2876.9	2913.0	2978.7	3021.1	3052.9	3057.1
75°	2393.5	2510.2	2626.8	2737.0	2785.8	2836.6	2910.8	2959.6	2995.6	3002.0
77.5°	2255.7	2389.3	2533.5	2652.2	2711.6	2756.1	2836.6	2883.3	2921.4	2923.6
80°	2117.9	2274.8	2421.1	2544.1	2603.4	2660.7	2737.0	2798.5	2830.3	2845.1
82.5°	1984.4	2145.5	2302.4	2444.4	2497.4	2552.6	2639.5	2698.8	2734.9	2747.6
85°	1852.9	2028.9	2192.1	2329.9	2395.7	2450.8	2544.1	2599.2	2641.6	2652.2
87.5°	1715.1	1886.9	2050.1	2185.8	2253.6	2302.4	2397.8	2455.0	2497.4	2505.9
90°	1566.7	1727.8	1886.9	2014.1	2077.7	2130.7	2232.4	2285.4	2317.2	2336.3
92.5°	1382.3	1537.0	1683.3	1808.4	1874.1	1912.3	2007.7	2064.9	2098.9	2107.3
95°	1153.3	1284.8	1416.2	1528.6	1585.8	1643.0	1706.6	1761.8	1808.4	1814.8
97.5°	890.4	1000.7	1108.8	1219.0	1255.1	1289.0	1342.0	1399.2	1441.6	1439.5
100°	663.6	727.2	803.5	860.7	888.3	926.5	977.3	1011.3	1015.5	1028.2
102.5°	477.0	521.5	553.3	595.7	608.5	642.4	659.3	682.7	686.9	697.5
105°	345.6	368.9	392.2	409.2	419.8	421.9	434.6	451.6	455.8	455.8
107.5°	258.6	271.4	273.5	279.8	284.1	286.2	294.7	296.8	298.9	298.9
110°	203.5	205.6	201.4	201.4	199.3	199.3	197.2	195.0	192.9	192.9



TEST NUMBER: P237883

CATALOG NUMBER: 8VT2-LD5-16-DR-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	165.4	165.4	161.1	154.8	150.5	148.4	142.0	137.8	135.7	135.7
115°	144.2	139.9	135.7	129.3	125.1	123.0	116.6	112.4	108.1	106.0
117.5°	129.3	127.2	120.8	116.6	112.4	110.2	103.9	97.5	95.4	93.3
120°	116.6	114.5	112.4	106.0	103.9	101.8	95.4	91.2	86.9	86.9
122.5°	103.9	103.9	101.8	97.5	95.4	93.3	89.0	84.8	82.7	80.6
125°	93.3	93.3	93.3	91.2	89.0	86.9	82.7	80.6	78.4	76.3
127.5°	78.4	82.7	82.7	82.7	80.6	80.6	78.4	74.2	72.1	72.1
130°	65.7	70.0	72.1	72.1	72.1	72.1	70.0	67.8	65.7	65.7
132.5°	53.0	59.4	61.5	63.6	63.6	63.6	61.5	61.5	59.4	59.4
135°	42.4	46.6	50.9	53.0	53.0	53.0	53.0	53.0	50.9	50.9
137.5°	31.8	33.9	38.2	40.3	42.4	42.4	42.4	42.4	42.4	42.4
140°	19.1	23.3	27.6	29.7	31.8	31.8	31.8	31.8	31.8	31.8
142.5°	10.6	12.7	17.0	19.1	21.2	21.2	21.2	21.2	21.2	21.2
145°	2.1	4.2	8.5	10.6	10.6	10.6	10.6	10.6	10.6	10.6
147.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	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)