

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: P237894

Luminaire Tested: **8VRVT2-LD5-16-DR100-W-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P237894  
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-LD5-16-DR100-W-UNV-L840-CD2-WL-U  
Description: METALUX VRVT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% 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: 15238.0 lumens  
Efficiency: N/A  
Efficacy: 130.2 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

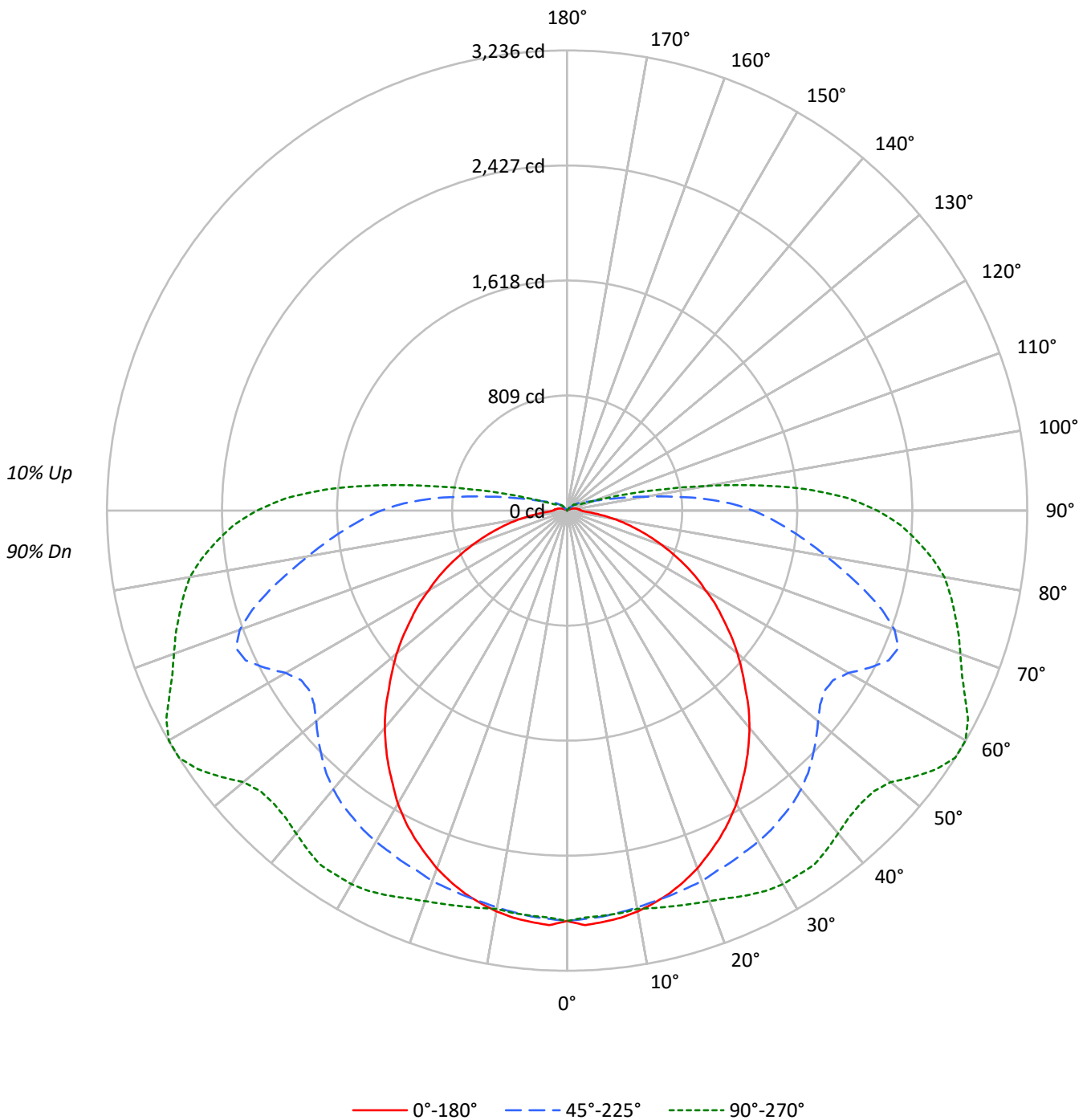
Input Watts (W): 117  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	7456	7456	7456
5°	7518	7273	7207
10°	7481	7121	7046
15°	7412	7024	7071
20°	7309	6986	7164
25°	7173	6965	7367
30°	7019	7008	7590
35°	6811	7065	7763
40°	6614	7132	7811
45°	6347	7138	7990
50°	6140	7135	8543
55°	5885	7336	9673
60°	5623	8237	10593
65°	5392	9927	11001
70°	5083	10973	11599
75°	4737	11188	12561
80°	4436	11388	13866
85°	4101	12101	15234



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	1.8
10°-20°	798.9	5.2
20°-30°	1269.7	8.3
30°-40°	1641.3	10.8
40°-50°	1852.2	12.2
50°-60°	2030.4	13.3
60°-70°	2166.7	14.2
70°-80°	2031.2	13.3
80°-90°	1635.9	10.7
90°-100°	1018.6	6.7
100°-110°	330.2	2.2
110°-120°	107.8	0.7
120°-130°	55.2	0.4
130°-140°	22.7	0.1
140°-150°	3.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2342.4	15.4
0°-40°	3983.7	26.1
0°-60°	7866.3	51.6
0°-90°	13700.0	89.9
90°-120°	1456.5	9.6
90°-150°	1538.0	10.1
90°-180°	1538.0	10.1
0°-180°	15238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2886	2886	2886	2886	2886	
5°	2904	2894	2866	2870	2860	276
15°	2786	2786	2802	2874	2880	785
25°	2540	2574	2728	2920	2986	1170
35°	2190	2314	2632	2934	3036	1370
45°	1772	1990	2442	2778	2916	1372
55°	1344	1630	2210	2936	3170	1205
65°	920	1290	2494	3020	3086	910
75°	510	1248	2166	2620	2824	544
85°	170	854	1574	2230	2472	174
90°	98	638	1308	1942	2182	56
95°	86	444	962	1506	1704	67
105°	58	160	318	412	460	61
115°	28	72	144	128	110	29
125°	12	24	86	88	76	11
135°	4	0	34	52	50	4
145°	2	0	0	10	10	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



TEST NUMBER: P237894

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2918.1	2910.1	2904.1	2904.1	2904.1	2902.1	2902.1	2900.1	2896.1	2884.1	2874.1
5°	2904.1	2900.1	2894.1	2894.1	2894.1	2894.1	2894.1	2890.1	2882.1	2874.1	2866.1
7.5°	2888.1	2884.1	2876.1	2878.1	2872.1	2874.1	2872.1	2868.1	2866.1	2860.1	2850.1
10°	2862.1	2858.1	2850.1	2852.1	2848.1	2850.1	2850.1	2852.1	2848.1	2842.1	2834.1
12.5°	2826.1	2824.1	2820.1	2818.1	2822.1	2826.1	2828.1	2824.1	2820.1	2818.1	2816.1
15°	2786.1	2782.1	2778.1	2780.1	2786.1	2786.1	2792.1	2792.1	2792.1	2794.1	2802.1
17.5°	2734.1	2732.1	2728.1	2732.1	2736.1	2738.1	2746.1	2750.1	2752.1	2768.1	2786.1
20°	2678.1	2674.1	2670.1	2674.1	2680.1	2688.1	2696.1	2708.1	2726.1	2752.1	2772.1
22.5°	2608.1	2606.1	2604.1	2608.1	2618.1	2630.1	2644.1	2670.1	2698.1	2726.1	2744.1
25°	2540.1	2536.1	2534.1	2542.1	2562.1	2574.1	2592.1	2626.1	2658.1	2694.1	2728.1
27.5°	2464.1	2452.1	2462.1	2470.1	2496.1	2512.1	2534.1	2578.1	2614.1	2654.1	2706.1
30°	2380.1	2374.1	2374.1	2392.1	2426.1	2450.1	2476.1	2526.1	2568.1	2624.1	2688.1
32.5°	2282.1	2284.1	2288.1	2312.1	2358.1	2386.1	2408.1	2466.1	2520.1	2590.1	2664.1
35°	2190.1	2186.1	2196.1	2230.1	2282.1	2314.1	2344.1	2406.1	2474.1	2552.1	2632.1
37.5°	2094.1	2090.1	2104.1	2144.1	2200.1	2234.1	2268.1	2346.1	2424.1	2512.1	2602.1
40°	1994.1	1994.1	2010.1	2054.1	2116.1	2152.1	2192.1	2280.1	2366.1	2462.1	2558.1
42.5°	1890.1	1886.1	1906.1	1966.1	2036.1	2072.1	2120.1	2212.1	2310.1	2406.1	2506.1
45°	1772.1	1788.1	1808.1	1868.1	1940.1	1990.1	2046.1	2144.1	2244.1	2346.1	2442.1
47.5°	1668.1	1680.1	1708.1	1772.1	1856.1	1902.1	1962.1	2066.1	2174.1	2272.1	2374.1
50°	1564.1	1570.1	1608.1	1672.1	1760.1	1818.1	1876.1	1982.1	2088.1	2200.1	2304.1
52.5°	1456.0	1458.0	1504.0	1566.1	1670.1	1728.1	1782.1	1894.1	2008.1	2124.1	2242.1
55°	1344.0	1350.0	1398.0	1466.0	1576.1	1630.1	1690.1	1806.1	1930.1	2062.1	2210.1
57.5°	1242.0	1248.0	1294.0	1368.0	1482.0	1540.1	1598.1	1724.1	1860.1	2024.1	2218.1
60°	1126.0	1142.0	1184.0	1268.0	1384.0	1442.0	1510.0	1650.1	1820.1	2038.1	2284.1
62.5°	1028.0	1032.0	1080.0	1172.0	1294.0	1358.0	1432.0	1602.1	1826.1	2100.1	2394.1
65°	920.0	930.0	980.0	1084.0	1214.0	1290.0	1378.0	1596.1	1882.1	2208.1	2494.1
67.5°	812.0	828.0	888.0	1002.0	1152.0	1244.0	1356.0	1638.1	1972.1	2290.1	2522.1
70°	710.0	730.0	798.0	930.0	1110.0	1226.0	1370.0	1700.1	2034.1	2296.1	2450.1
72.5°	608.0	636.0	724.0	876.0	1094.0	1238.0	1402.0	1738.1	2020.1	2200.1	2322.1
75°	510.0	542.0	656.0	834.0	1092.0	1248.0	1414.0	1702.1	1902.1	2052.1	2166.1
77.5°	422.0	460.0	592.0	800.0	1078.0	1224.0	1358.0	1580.1	1746.1	1886.1	2002.1
80°	332.0	382.0	536.0	756.0	1010.0	1126.0	1236.0	1422.0	1572.1	1714.1	1850.1
82.5°	246.0	312.0	476.0	690.0	894.0	998.0	1084.0	1254.0	1406.0	1554.1	1710.1
85°	170.0	246.0	404.0	588.0	764.0	854.0	938.0	1100.0	1250.0	1406.0	1574.1
87.5°	118.0	194.0	336.0	498.0	660.0	736.0	812.0	968.0	1118.0	1272.0	1444.0
90°	98.0	154.0	280.0	422.0	566.0	638.0	710.0	852.0	1000.0	1148.0	1308.0
92.5°	92.0	128.0	230.0	354.0	484.0	544.0	608.0	740.0	872.0	1014.0	1150.0
95°	86.0	102.0	182.0	282.0	392.0	444.0	498.0	602.0	722.0	838.0	962.0
97.5°	78.0	84.0	140.0	220.0	308.0	352.0	392.0	476.0	570.0	658.0	746.0
100°	72.0	72.0	106.0	168.0	238.0	270.0	304.0	374.0	436.0	502.0	564.0
102.5°	64.0	64.0	82.0	126.0	182.0	208.0	238.0	286.0	332.0	378.0	422.0
105°	58.0	56.0	66.0	98.0	138.0	160.0	182.0	222.0	258.0	288.0	318.0
107.5°	50.0	50.0	54.0	78.0	110.0	128.0	144.0	178.0	206.0	228.0	244.0
110°	42.0	42.0	44.0	62.0	90.0	104.0	120.0	146.0	168.0	186.0	196.0



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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	34.0	50.0	74.0	88.0	100.0	124.0	144.0	156.0	164.0
115°	28.0	28.0	28.0	38.0	60.0	72.0	84.0	106.0	126.0	138.0	144.0
117.5°	24.0	24.0	22.0	28.0	48.0	60.0	70.0	92.0	108.0	122.0	128.0
120°	18.0	18.0	18.0	18.0	36.0	48.0	58.0	78.0	94.0	106.0	112.0
122.5°	14.0	14.0	14.0	12.0	26.0	36.0	46.0	64.0	80.0	92.0	100.0
125°	12.0	10.0	10.0	10.0	16.0	24.0	34.0	50.0	64.0	78.0	86.0
127.5°	10.0	8.0	8.0	8.0	8.0	14.0	22.0	38.0	52.0	64.0	72.0
130°	8.0	6.0	6.0	6.0	4.0	8.0	14.0	26.0	40.0	50.0	58.0
132.5°	6.0	6.0	4.0	4.0	2.0	2.0	6.0	16.0	28.0	38.0	46.0
135°	4.0	4.0	4.0	2.0	2.0	0.0	0.0	8.0	18.0	26.0	34.0
137.5°	4.0	4.0	2.0	2.0	0.0	0.0	0.0	2.0	8.0	16.0	24.0
140°	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	8.0	14.0
142.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
145°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.0	2.0	2.0	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°	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1	2886.1
2.5°	2874.1	2876.1	2878.1	2878.1	2876.1	2876.1	2874.1	2870.1	2866.1	2864.1
5°	2860.1	2866.1	2870.1	2870.1	2870.1	2868.1	2868.1	2866.1	2862.1	2860.1
7.5°	2848.1	2858.1	2862.1	2860.1	2860.1	2860.1	2860.1	2862.1	2858.1	2856.1
10°	2836.1	2844.1	2852.1	2854.1	2856.1	2854.1	2854.1	2850.1	2848.1	2844.1
12.5°	2824.1	2838.1	2850.1	2860.1	2860.1	2860.1	2864.1	2870.1	2868.1	2862.1
15°	2814.1	2838.1	2852.1	2868.1	2874.1	2880.1	2882.1	2886.1	2880.1	2880.1
17.5°	2808.1	2840.1	2860.1	2876.1	2878.1	2886.1	2898.1	2904.1	2902.1	2900.1
20°	2798.1	2836.1	2864.1	2878.1	2888.1	2898.1	2914.1	2918.1	2922.1	2922.1
22.5°	2786.1	2828.1	2856.1	2888.1	2904.1	2914.1	2936.1	2948.1	2952.1	2950.1
25°	2776.1	2824.1	2866.1	2904.1	2920.1	2932.1	2960.1	2982.1	2986.1	2986.1
27.5°	2766.1	2822.1	2872.1	2922.1	2942.1	2956.1	2984.1	3006.1	3014.1	3016.1
30°	2756.1	2818.1	2878.1	2928.1	2952.1	2966.1	2998.1	3018.1	3034.1	3034.1
32.5°	2738.1	2814.1	2874.1	2928.1	2948.1	2972.1	3002.1	3024.1	3036.1	3034.1
35°	2720.1	2790.1	2858.1	2912.1	2934.1	2958.1	2994.1	3020.1	3028.1	3036.1
37.5°	2690.1	2764.1	2832.1	2886.1	2918.1	2938.1	2970.1	2990.1	3006.1	3002.1
40°	2650.1	2724.1	2794.1	2846.1	2874.1	2898.1	2934.1	2952.1	2966.1	2964.1
42.5°	2592.1	2676.1	2742.1	2798.1	2828.1	2852.1	2896.1	2912.1	2928.1	2930.1
45°	2534.1	2616.1	2690.1	2750.1	2778.1	2806.1	2860.1	2890.1	2910.1	2916.1
47.5°	2464.1	2556.1	2640.1	2722.1	2762.1	2798.1	2854.1	2896.1	2918.1	2922.1
50°	2406.1	2520.1	2624.1	2720.1	2770.1	2810.1	2886.1	2936.1	2960.1	2970.1
52.5°	2372.1	2510.1	2646.1	2770.1	2830.1	2880.1	2974.1	3030.1	3070.1	3074.1
55°	2378.1	2552.1	2722.1	2876.1	2936.1	2998.1	3084.1	3136.1	3170.1	3170.1
57.5°	2438.1	2646.1	2842.1	2984.1	3044.1	3092.1	3172.1	3206.1	3230.1	3236.1
60°	2546.1	2766.1	2936.1	3060.1	3100.1	3138.1	3182.1	3220.1	3230.1	3234.1
62.5°	2652.1	2840.1	2974.1	3060.1	3084.1	3116.1	3148.1	3170.1	3178.1	3178.1
65°	2708.1	2848.1	2930.1	2994.1	3020.1	3030.1	3064.1	3072.1	3090.1	3086.1
67.5°	2674.1	2764.1	2830.1	2884.1	2904.1	2924.1	2964.1	2984.1	3000.1	3004.1
70°	2558.1	2630.1	2700.1	2768.1	2794.1	2828.1	2876.1	2914.1	2932.1	2942.1
72.5°	2416.1	2502.1	2592.1	2674.1	2716.1	2748.1	2808.1	2858.1	2876.1	2886.1
75°	2270.1	2372.1	2476.1	2576.1	2620.1	2662.1	2734.1	2782.1	2814.1	2824.1
77.5°	2124.1	2248.1	2374.1	2488.1	2542.1	2586.1	2668.1	2720.1	2758.1	2762.1
80°	1988.1	2136.1	2276.1	2398.1	2452.1	2504.1	2586.1	2646.1	2666.1	2694.1
82.5°	1868.1	2022.1	2164.1	2292.1	2352.1	2398.1	2484.1	2546.1	2576.1	2592.1
85°	1738.1	1898.1	2042.1	2168.1	2230.1	2286.1	2366.1	2424.1	2466.1	2472.1
87.5°	1606.1	1766.1	1914.1	2044.1	2106.1	2158.1	2242.1	2298.1	2336.1	2348.1
90°	1466.0	1618.1	1760.1	1890.1	1942.1	1996.1	2076.1	2140.1	2180.1	2182.1
92.5°	1298.0	1444.0	1574.1	1696.1	1758.1	1798.1	1874.1	1940.1	1968.1	1980.1
95°	1084.0	1218.0	1342.0	1444.0	1506.0	1542.1	1616.1	1664.1	1696.1	1704.1
97.5°	850.0	954.0	1054.0	1144.0	1190.0	1220.0	1280.0	1322.0	1370.0	1358.0
100°	640.0	698.0	770.0	828.0	862.0	882.0	926.0	954.0	982.0	998.0
102.5°	464.0	508.0	540.0	570.0	594.0	614.0	648.0	658.0	666.0	686.0
105°	340.0	362.0	380.0	402.0	412.0	418.0	432.0	442.0	442.0	460.0
107.5°	256.0	266.0	274.0	286.0	286.0	292.0	292.0	294.0	300.0	296.0
110°	202.0	204.0	206.0	204.0	206.0	204.0	202.0	200.0	200.0	198.0





TEST NUMBER: P237894

CATALOG NUMBER: 8VRVT2-LD5-16-DR100-W-UNV-L840-CD2-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	168.0	166.0	164.0	158.0	156.0	152.0	150.0	146.0	142.0	142.0
115°	144.0	142.0	138.0	132.0	128.0	124.0	122.0	116.0	112.0	110.0
117.5°	128.0	126.0	122.0	116.0	114.0	110.0	106.0	100.0	96.0	94.0
120°	116.0	116.0	112.0	106.0	104.0	102.0	96.0	92.0	88.0	86.0
122.5°	104.0	104.0	102.0	98.0	96.0	94.0	90.0	86.0	82.0	82.0
125°	90.0	92.0	92.0	90.0	88.0	86.0	84.0	80.0	78.0	76.0
127.5°	78.0	80.0	82.0	82.0	80.0	80.0	76.0	74.0	72.0	72.0
130°	64.0	70.0	72.0	72.0	72.0	72.0	70.0	68.0	66.0	66.0
132.5°	52.0	56.0	60.0	62.0	62.0	62.0	60.0	60.0	58.0	58.0
135°	40.0	44.0	48.0	50.0	52.0	52.0	52.0	52.0	50.0	50.0
137.5°	30.0	34.0	38.0	40.0	40.0	42.0	42.0	42.0	40.0	40.0
140°	18.0	24.0	26.0	28.0	30.0	30.0	32.0	32.0	30.0	30.0
142.5°	10.0	14.0	16.0	18.0	20.0	20.0	22.0	20.0	20.0	20.0
145°	2.0	4.0	8.0	10.0	10.0	10.0	10.0	12.0	10.0	10.0
147.5°	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	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)