

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: io LED

Report Number: P397344

Luminaire Tested: **8VRVT2-LD5-22-DR100-W-UNV-LG52-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P397344
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: io LED
Catalog Number: 8VRVT2-LD5-22-DR100-W-UNV-LG52-CD2-WL-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15933.6 lumens
Efficiency: N/A
Efficacy: 40.6 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

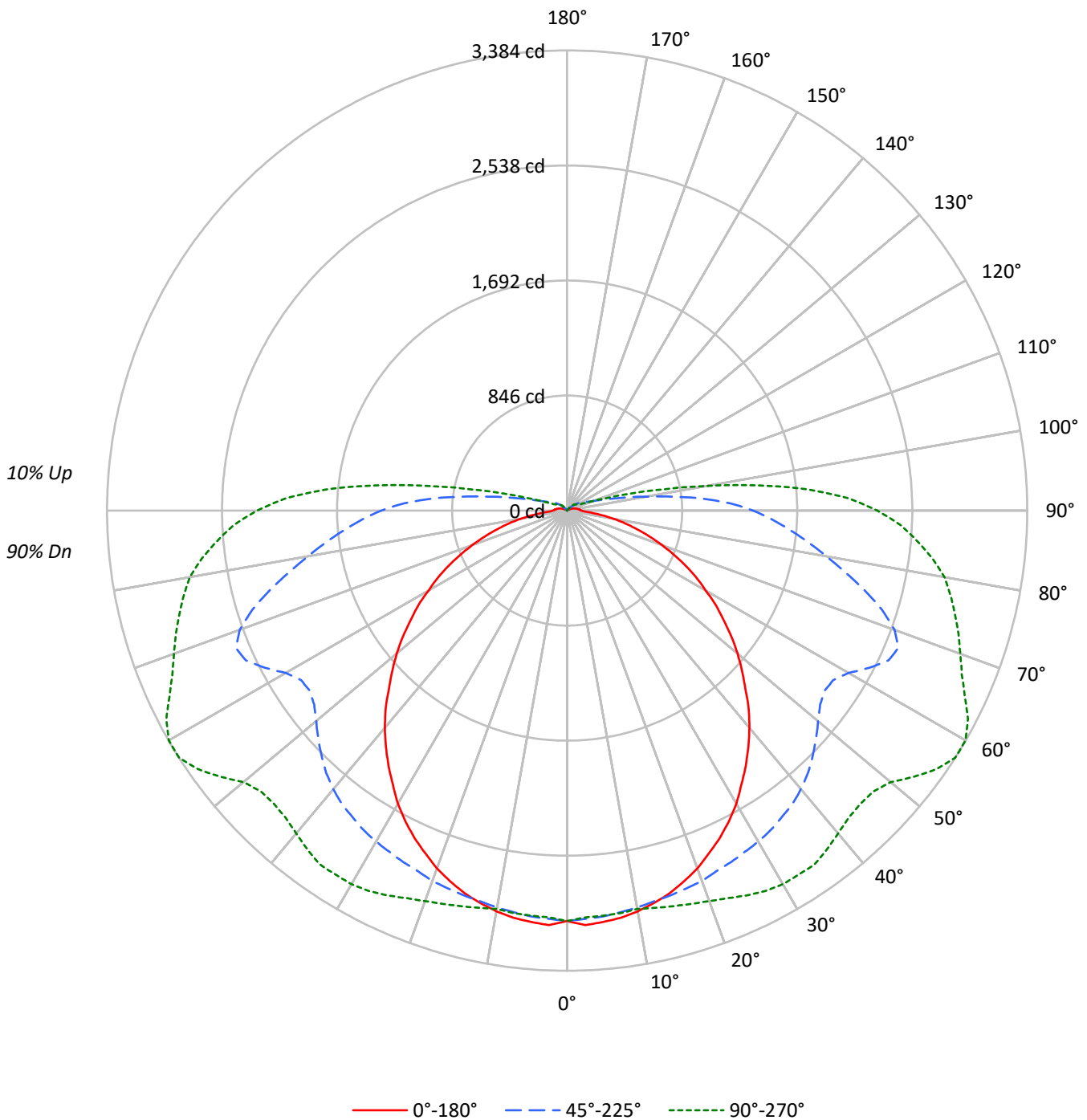
Input Watts (W): 392.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7796	7796	7796
5°	7861	7606	7535
10°	7823	7446	7368
15°	7750	7345	7394
20°	7643	7304	7491
25°	7501	7283	7703
30°	7339	7328	7936
35°	7122	7387	8117
40°	6916	7457	8168
45°	6637	7464	8355
50°	6420	7461	8933
55°	6154	7671	10115
60°	5880	8613	11077
65°	5639	10380	11503
70°	5315	11474	12129
75°	4953	11699	13135
80°	4639	11907	14499
85°	4289	12653	15929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.3	1.8
10°-20°	835.4	5.2
20°-30°	1327.7	8.3
30°-40°	1716.2	10.8
40°-50°	1936.7	12.2
50°-60°	2123.1	13.3
60°-70°	2265.6	14.2
70°-80°	2123.9	13.3
80°-90°	1710.6	10.7
90°-100°	1065.1	6.7
100°-110°	345.3	2.2
110°-120°	112.7	0.7
120°-130°	57.7	0.4
130°-140°	23.8	0.1
140°-150°	3.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2449.3	15.4
0°-40°	4165.6	26.1
0°-60°	8225.3	51.6
0°-90°	14325.4	89.9
90°-120°	1523.1	9.6
90°-150°	1608.2	10.1
90°-180°	1608.0	10.1
0°-180°	15933.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3018	3018	3018	3018	3018	
5°	3037	3026	2997	3001	2991	288
15°	2913	2913	2930	3005	3012	821
25°	2656	2692	2853	3053	3122	1223
35°	2290	2420	2752	3068	3175	1433
45°	1853	2081	2554	2905	3049	1434
55°	1405	1704	2311	3070	3315	1260
65°	962	1349	2608	3158	3227	952
75°	533	1305	2265	2740	2953	568
85°	178	893	1646	2332	2585	182
90°	102	667	1368	2031	2282	58
95°	90	464	1006	1575	1782	70
105°	61	167	333	431	481	63
115°	29	75	151	134	115	31
125°	13	25	90	92	79	12
135°	4	0	36	54	52	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: P397344

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8
2.5°	3051.3	3043.0	3036.6	3036.6	3036.6	3034.6	3034.6	3032.5	3028.3	3015.8	3005.3
5°	3036.6	3032.5	3026.2	3026.2	3026.2	3026.2	3026.2	3022.0	3013.7	3005.3	2997.0
7.5°	3019.9	3015.8	3007.4	3009.4	3003.2	3005.3	3003.2	2999.0	2997.0	2990.6	2980.2
10°	2992.7	2988.6	2980.2	2982.3	2978.1	2980.2	2980.2	2982.3	2978.1	2971.8	2963.4
12.5°	2955.1	2953.0	2948.8	2946.7	2950.9	2955.1	2957.2	2953.0	2948.8	2946.7	2944.6
15°	2913.3	2909.1	2904.9	2907.0	2913.3	2913.3	2919.5	2919.5	2919.5	2921.6	2930.0
17.5°	2858.9	2856.8	2852.6	2856.8	2861.0	2863.1	2871.4	2875.6	2877.8	2894.5	2913.3
20°	2800.3	2796.2	2792.0	2796.2	2802.4	2810.8	2819.2	2831.7	2850.6	2877.8	2898.6
22.5°	2727.1	2725.0	2723.0	2727.1	2737.6	2750.2	2764.8	2792.0	2821.3	2850.6	2869.4
25°	2656.0	2651.8	2649.8	2658.2	2679.0	2691.6	2710.4	2746.0	2779.4	2817.0	2852.6
27.5°	2576.6	2564.0	2574.5	2582.8	2610.0	2626.7	2649.8	2695.8	2733.4	2775.3	2829.6
30°	2488.7	2482.5	2482.5	2501.3	2536.8	2561.9	2589.1	2641.4	2685.3	2743.8	2810.8
32.5°	2386.2	2388.3	2392.6	2417.6	2465.8	2495.0	2518.0	2578.6	2635.1	2708.3	2785.7
35°	2290.1	2285.8	2296.3	2331.8	2386.2	2419.7	2451.1	2515.9	2587.0	2668.6	2752.2
37.5°	2189.7	2185.4	2200.1	2241.9	2300.5	2336.1	2371.6	2453.2	2534.7	2626.7	2720.9
40°	2085.1	2085.1	2101.8	2147.8	2212.6	2250.3	2292.2	2384.2	2474.1	2574.5	2674.9
42.5°	1976.3	1972.2	1993.0	2055.8	2129.0	2166.6	2216.9	2313.0	2415.5	2515.9	2620.5
45°	1853.0	1869.7	1890.6	1953.4	2028.6	2080.9	2139.4	2241.9	2346.5	2453.2	2553.5
47.5°	1744.2	1756.7	1786.0	1853.0	1940.8	1988.9	2051.6	2160.4	2273.3	2375.8	2482.5
50°	1635.4	1641.8	1681.4	1748.4	1840.4	1901.0	1961.7	2072.6	2183.4	2300.5	2409.3
52.5°	1522.5	1524.6	1572.7	1637.5	1746.3	1807.0	1863.4	1980.6	2099.8	2221.0	2344.4
55°	1405.4	1411.7	1461.8	1533.0	1648.0	1704.5	1767.2	1888.5	2018.2	2156.2	2311.0
57.5°	1298.7	1305.0	1353.1	1430.5	1549.7	1610.3	1671.0	1802.7	1945.0	2116.5	2319.4
60°	1177.4	1194.2	1238.1	1325.9	1447.2	1507.8	1579.0	1725.4	1903.1	2131.1	2388.3
62.5°	1075.0	1079.1	1129.4	1225.5	1353.1	1420.0	1497.4	1675.2	1909.4	2195.9	2503.4
65°	962.0	972.5	1024.8	1133.5	1269.4	1349.0	1441.0	1668.9	1968.0	2308.9	2607.9
67.5°	849.1	865.8	928.6	1047.8	1204.6	1300.8	1417.9	1712.8	2062.1	2394.6	2637.2
70°	742.4	763.4	834.5	972.5	1160.7	1282.0	1432.6	1777.7	2127.0	2400.9	2561.9
72.5°	635.8	665.0	757.0	916.0	1144.0	1294.6	1466.1	1817.4	2112.3	2300.5	2428.1
75°	533.3	566.8	686.0	872.1	1141.9	1305.0	1478.6	1779.8	1988.9	2145.8	2265.0
77.5°	441.3	481.0	619.0	836.6	1127.3	1279.9	1420.0	1652.2	1825.8	1972.2	2093.4
80°	347.2	399.4	560.5	790.6	1056.2	1177.4	1292.5	1487.0	1643.8	1792.3	1934.5
82.5°	257.2	326.2	497.8	721.5	934.9	1043.6	1133.5	1311.3	1470.2	1625.0	1788.1
85°	177.8	257.2	422.5	614.9	798.9	893.0	980.9	1150.2	1307.1	1470.2	1645.9
87.5°	123.4	202.9	351.4	520.7	690.2	769.6	849.1	1012.2	1169.0	1330.1	1510.0
90°	102.5	161.0	292.8	441.3	591.8	667.1	742.4	891.0	1045.7	1200.5	1367.8
92.5°	96.2	133.8	240.5	370.2	506.1	568.9	635.8	773.8	911.8	1060.3	1202.6
95°	89.9	106.6	190.3	294.9	409.9	464.3	520.7	629.5	755.0	876.3	1005.9
97.5°	81.6	87.8	146.4	230.1	322.1	368.1	409.9	497.8	596.0	688.1	780.1
100°	75.3	75.3	110.9	175.7	248.9	282.3	317.9	391.1	455.9	525.0	589.8
102.5°	67.0	67.0	85.8	131.8	190.3	217.5	248.9	299.0	347.2	395.3	441.3
105°	60.6	58.6	69.0	102.5	144.3	167.3	190.3	232.2	269.8	301.1	332.6
107.5°	52.3	52.3	56.5	81.6	115.0	133.8	150.6	186.2	215.4	238.4	255.1
110°	43.9	43.9	46.0	64.8	94.1	108.7	125.5	152.6	175.7	194.5	205.0



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CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	37.7	37.7	35.5	52.3	77.4	92.0	104.6	129.7	150.6	163.1	171.5
115°	29.3	29.3	29.3	39.8	62.7	75.3	87.8	110.9	131.8	144.3	150.6
117.5°	25.1	25.1	23.0	29.3	50.2	62.7	73.2	96.2	113.0	127.6	133.8
120°	18.8	18.8	18.8	18.8	37.7	50.2	60.6	81.6	98.3	110.9	117.1
122.5°	14.6	14.6	14.6	12.6	27.2	37.7	48.1	67.0	83.7	96.2	104.6
125°	12.6	10.5	10.5	10.5	16.7	25.1	35.5	52.3	67.0	81.6	89.9
127.5°	10.5	8.4	8.4	8.4	8.4	14.6	23.0	39.8	54.4	67.0	75.3
130°	8.4	6.2	6.2	6.2	4.2	8.4	14.6	27.2	41.8	52.3	60.6
132.5°	6.2	6.2	4.2	4.2	2.1	2.1	6.2	16.7	29.3	39.8	48.1
135°	4.2	4.2	4.2	2.1	2.1	0.0	0.0	8.4	18.8	27.2	35.5
137.5°	4.2	4.2	2.1	2.1	0.0	0.0	0.0	2.1	8.4	16.7	25.1
140°	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	2.1	8.4	14.6
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°	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8	3017.8
2.5°	3005.3	3007.4	3009.4	3009.4	3007.4	3007.4	3005.3	3001.1	2997.0	2994.8
5°	2990.6	2997.0	3001.1	3001.1	3001.1	2999.0	2999.0	2997.0	2992.7	2990.6
7.5°	2978.1	2988.6	2992.7	2990.6	2990.6	2990.6	2990.6	2992.7	2988.6	2986.5
10°	2965.5	2973.9	2982.3	2984.4	2986.5	2984.4	2984.4	2980.2	2978.1	2973.9
12.5°	2953.0	2967.7	2980.2	2990.6	2990.6	2990.6	2994.8	3001.1	2999.0	2992.7
15°	2942.6	2967.7	2982.3	2999.0	3005.3	3011.6	3013.7	3017.8	3011.6	3011.6
17.5°	2936.2	2969.8	2990.6	3007.4	3009.4	3017.8	3030.4	3036.6	3034.6	3032.5
20°	2925.8	2965.5	2994.8	3009.4	3019.9	3030.4	3047.1	3051.3	3055.5	3055.5
22.5°	2913.3	2957.2	2986.5	3019.9	3036.6	3047.1	3070.2	3082.6	3086.9	3084.8
25°	2902.8	2953.0	2997.0	3036.6	3053.4	3065.9	3095.2	3118.2	3122.4	3122.4
27.5°	2892.4	2950.9	3003.2	3055.5	3076.4	3091.0	3120.3	3143.4	3151.7	3153.8
30°	2881.9	2946.7	3009.4	3061.8	3086.9	3101.5	3135.0	3155.8	3172.6	3172.6
32.5°	2863.1	2942.6	3005.3	3061.8	3082.6	3107.8	3139.1	3162.2	3174.7	3172.6
35°	2844.2	2917.4	2988.6	3045.0	3068.0	3093.1	3130.8	3158.0	3166.3	3174.7
37.5°	2812.9	2890.2	2961.4	3017.8	3051.3	3072.2	3105.7	3126.6	3143.4	3139.1
40°	2771.0	2848.5	2921.6	2976.0	3005.3	3030.4	3068.0	3086.9	3101.5	3099.4
42.5°	2710.4	2798.2	2867.3	2925.8	2957.2	2982.3	3028.3	3045.0	3061.8	3063.8
45°	2649.8	2735.5	2812.9	2875.6	2904.9	2934.2	2990.6	3022.0	3043.0	3049.2
47.5°	2576.6	2672.8	2760.6	2846.3	2888.2	2925.8	2984.4	3028.3	3051.3	3055.5
50°	2515.9	2635.1	2743.8	2844.2	2896.6	2938.4	3017.8	3070.2	3095.2	3105.7
52.5°	2480.4	2624.6	2766.9	2896.6	2959.3	3011.6	3109.8	3168.4	3210.2	3214.4
55°	2486.6	2668.6	2846.3	3007.4	3070.2	3135.0	3224.9	3279.3	3314.8	3314.8
57.5°	2549.4	2766.9	2971.8	3120.3	3183.0	3233.3	3316.9	3352.5	3377.5	3383.8
60°	2662.3	2892.4	3070.2	3199.8	3241.6	3281.4	3327.4	3367.1	3377.5	3381.8
62.5°	2773.1	2969.8	3109.8	3199.8	3224.9	3258.3	3291.8	3314.8	3323.2	3323.2
65°	2831.7	2978.1	3063.8	3130.8	3158.0	3168.4	3204.0	3212.3	3231.2	3227.0
67.5°	2796.2	2890.2	2959.3	3015.8	3036.6	3057.6	3099.4	3120.3	3137.0	3141.2
70°	2674.9	2750.2	2823.4	2894.5	2921.6	2957.2	3007.4	3047.1	3065.9	3076.4
72.5°	2526.4	2616.3	2710.4	2796.2	2840.1	2873.5	2936.2	2988.6	3007.4	3017.8
75°	2373.7	2480.4	2589.1	2693.7	2739.7	2783.6	2858.9	2909.1	2942.6	2953.0
77.5°	2221.0	2350.7	2482.5	2601.7	2658.2	2704.2	2789.9	2844.2	2884.0	2888.2
80°	2078.8	2233.6	2380.0	2507.5	2564.0	2618.4	2704.2	2766.9	2787.8	2817.0
82.5°	1953.4	2114.4	2262.9	2396.7	2459.4	2507.5	2597.4	2662.3	2693.7	2710.4
85°	1817.4	1984.7	2135.3	2267.0	2331.8	2390.4	2474.1	2534.7	2578.6	2585.0
87.5°	1679.4	1846.6	2001.4	2137.4	2202.2	2256.6	2344.4	2403.0	2442.7	2455.3
90°	1533.0	1691.9	1840.4	1976.3	2030.7	2087.2	2170.8	2237.8	2279.6	2281.7
92.5°	1357.3	1510.0	1645.9	1773.4	1838.3	1880.2	1959.6	2028.6	2057.9	2070.5
95°	1133.5	1273.7	1403.3	1510.0	1574.8	1612.5	1689.8	1740.0	1773.4	1781.8
97.5°	888.8	997.6	1102.2	1196.2	1244.4	1275.8	1338.5	1382.4	1432.6	1420.0
100°	669.2	729.9	805.2	865.8	901.4	922.3	968.3	997.6	1026.9	1043.6
102.5°	485.2	531.2	564.6	596.0	621.1	642.1	677.6	688.1	696.4	717.4
105°	355.5	378.6	397.4	420.4	430.8	437.1	451.8	462.2	462.2	481.0
107.5°	267.7	278.2	286.5	299.0	299.0	305.4	305.4	307.4	313.7	309.5
110°	211.2	213.3	215.4	213.3	215.4	213.3	211.2	209.1	209.1	207.0



TEST NUMBER: P397344

CATALOG NUMBER: 8VRVT2-LD5-22-DR100-W-UNV-LG52-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	175.7	173.6	171.5	165.2	163.1	159.0	156.9	152.6	148.5	148.5
115°	150.6	148.5	144.3	138.0	133.8	129.7	127.6	121.3	117.1	115.0
117.5°	133.8	131.8	127.6	121.3	119.2	115.0	110.9	104.6	100.4	98.3
120°	121.3	121.3	117.1	110.9	108.7	106.6	100.4	96.2	92.0	89.9
122.5°	108.7	108.7	106.6	102.5	100.4	98.3	94.1	89.9	85.8	85.8
125°	94.1	96.2	96.2	94.1	92.0	89.9	87.8	83.7	81.6	79.4
127.5°	81.6	83.7	85.8	85.8	83.7	83.7	79.4	77.4	75.3	75.3
130°	67.0	73.2	75.3	75.3	75.3	75.3	73.2	71.1	69.0	69.0
132.5°	54.4	58.6	62.7	64.8	64.8	64.8	62.7	62.7	60.6	60.6
135°	41.8	46.0	50.2	52.3	54.4	54.4	54.4	54.4	52.3	52.3
137.5°	31.4	35.5	39.8	41.8	41.8	43.9	43.9	43.9	41.8	41.8
140°	18.8	25.1	27.2	29.3	31.4	31.4	33.4	33.4	31.4	31.4
142.5°	10.5	14.6	16.7	18.8	20.9	20.9	23.0	20.9	20.9	20.9
145°	2.1	4.2	8.4	10.5	10.5	10.5	10.5	12.6	10.5	10.5
147.5°	0.0	0.0	0.0	0.0	0.0	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)