

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: P237838

Luminaire Tested: **8VRVT2-LD5-12-DR100-W-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-20)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VRVT2-LD5-12-DR100-W-UNV-L850-CD2-WL-U
Description: METALUX VRVT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION
8FT FIXTURE
Light Source: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12603.0 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.58 / 1.57
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

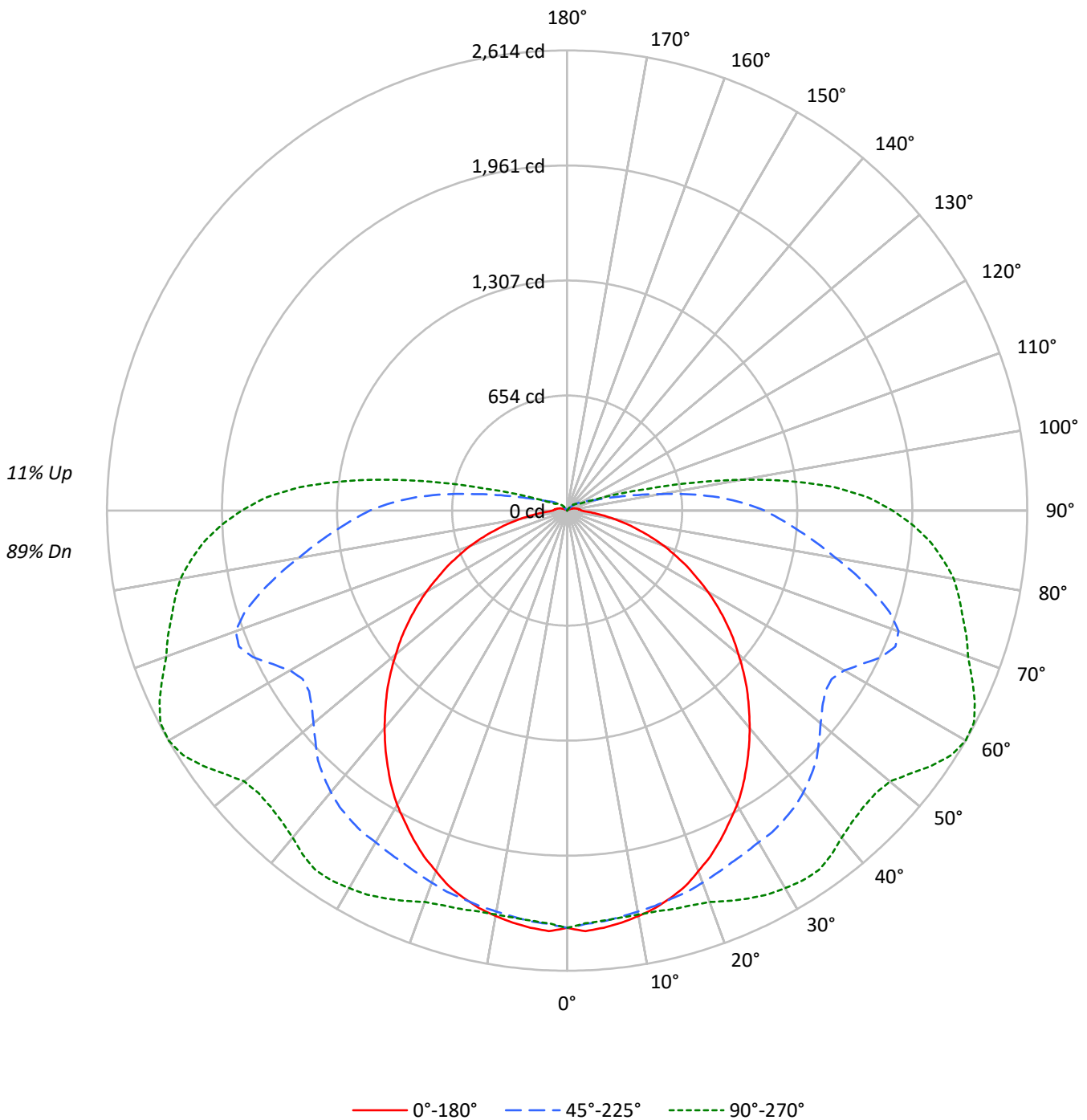
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	101	94	88	82	97	91	85	80	84	80	75	78	74	71	73	70	67	64
2	90	79	70	63	86	76	68	61	71	64	58	66	60	55	61	56	52	49
3	81	68	58	50	77	65	56	49	61	53	47	56	50	44	52	47	42	39
4	73	59	49	41	70	57	48	40	53	45	38	49	42	37	46	40	35	32
5	67	52	42	35	64	50	41	34	47	39	32	44	37	31	41	35	30	27
6	62	47	37	30	59	45	36	29	42	34	28	39	32	27	37	30	26	23
7	57	42	32	26	54	41	32	25	38	30	24	36	29	23	33	27	22	20
8	53	38	29	23	51	37	28	22	35	27	21	32	26	21	30	24	20	18
9	49	35	26	20	47	34	25	20	32	24	19	30	23	18	28	22	18	16
10	46	32	24	18	44	31	23	18	29	22	17	28	21	17	26	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6123	6123	6123
5°	6157	5945	5892
10°	6113	5811	5772
15°	6057	5723	5752
20°	5948	5668	5800
25°	5825	5634	5999
30°	5695	5670	6194
35°	5525	5758	6375
40°	5351	5822	6391
45°	5179	5856	6523
50°	4985	5823	6885
55°	4809	5940	7711
60°	4616	6552	8562
65°	4399	7839	9106
70°	4189	8973	9554
75°	3840	9318	10344
80°	3541	9526	11479
85°	3479	10170	12777



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.8
10°-20°	650.8	5.2
20°-30°	1032.3	8.2
30°-40°	1338.1	10.6
40°-50°	1509.5	12.0
50°-60°	1635.2	13.0
60°-70°	1759.0	14.0
70°-80°	1674.7	13.3
80°-90°	1372.8	10.9
90°-100°	908.9	7.2
100°-110°	327.0	2.6
110°-120°	99.2	0.8
120°-130°	48.2	0.4
130°-140°	20.1	0.2
140°-150°	3.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1907.0	15.1
0°-40°	3245.1	25.7
0°-60°	6389.8	50.7
0°-90°	11196.2	88.8
90°-120°	1335.1	10.6
90°-150°	1406.8	11.2
90°-180°	1407.0	11.2
0°-180°	12603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2370	2370	2370	2370	2370	
5°	2379	2368	2343	2347	2338	226
15°	2277	2273	2283	2330	2343	642
25°	2063	2092	2207	2383	2432	950
35°	1777	1874	2145	2406	2493	1111
45°	1446	1618	2003	2270	2381	1114
55°	1098	1336	1789	2332	2527	982
65°	750	1047	1970	2482	2555	743
75°	413	994	1804	2177	2326	443
85°	144	721	1323	1874	2073	144
90°	81	547	1122	1658	1849	46
95°	70	390	863	1338	1524	55
105°	47	144	303	422	479	50
115°	23	64	127	121	112	24
125°	8	21	74	76	68	9
135°	4	0	30	44	44	3
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



TEST NUMBER: P237838

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2
2.5°	2391.4	2387.1	2380.8	2378.6	2378.6	2378.6	2378.6	2374.4	2368.0	2359.6	2351.1
5°	2378.6	2374.4	2368.0	2368.0	2365.9	2368.0	2368.0	2363.8	2359.6	2351.1	2342.6
7.5°	2361.7	2359.6	2351.1	2346.8	2346.8	2346.8	2351.1	2346.8	2344.7	2336.2	2327.8
10°	2338.4	2334.1	2329.9	2329.9	2332.0	2332.0	2332.0	2334.1	2329.9	2319.3	2312.9
12.5°	2312.9	2306.6	2302.3	2302.3	2304.4	2304.4	2306.6	2306.6	2306.6	2300.2	2300.2
15°	2276.9	2274.8	2266.3	2268.4	2268.4	2272.6	2274.8	2276.9	2274.8	2281.1	2283.2
17.5°	2236.6	2234.5	2226.0	2226.0	2230.2	2232.4	2238.7	2247.2	2251.4	2259.9	2270.5
20°	2179.4	2179.4	2175.1	2179.4	2187.8	2192.1	2196.3	2211.2	2219.6	2236.6	2249.3
22.5°	2126.4	2122.1	2122.1	2126.4	2134.8	2145.4	2153.9	2175.1	2190.0	2211.2	2228.1
25°	2062.8	2060.6	2058.5	2069.1	2081.8	2092.4	2107.3	2132.7	2153.9	2179.4	2206.9
27.5°	1994.9	1992.8	1997.0	2005.5	2028.8	2043.7	2056.4	2090.3	2115.8	2156.0	2192.1
30°	1931.3	1925.0	1929.2	1941.9	1971.6	1992.8	2005.5	2043.7	2079.7	2126.4	2175.1
32.5°	1857.1	1850.8	1859.2	1878.3	1912.2	1933.4	1956.8	1997.0	2039.4	2096.7	2166.6
35°	1776.6	1778.7	1782.9	1812.6	1848.6	1874.1	1897.4	1950.4	2003.4	2073.4	2145.4
37.5°	1696.0	1691.8	1708.7	1742.6	1785.0	1816.8	1840.2	1895.3	1969.5	2045.8	2122.1
40°	1613.3	1617.6	1630.3	1668.4	1713.0	1753.2	1778.7	1850.8	1931.3	2009.8	2088.2
42.5°	1528.5	1539.1	1551.8	1596.4	1651.5	1683.3	1721.4	1799.9	1884.7	1967.4	2047.9
45°	1445.8	1454.3	1473.4	1522.2	1575.2	1617.6	1660.0	1742.6	1835.9	1922.8	2003.4
47.5°	1358.9	1367.4	1392.8	1443.7	1503.1	1549.7	1594.2	1683.3	1778.7	1867.7	1939.8
50°	1269.9	1282.6	1308.0	1358.9	1437.4	1479.8	1524.3	1621.8	1710.8	1797.8	1880.4
52.5°	1187.2	1193.6	1233.8	1282.6	1363.2	1411.9	1454.3	1554.0	1638.8	1736.3	1827.4
55°	1098.2	1110.9	1146.9	1195.7	1284.7	1335.6	1384.4	1479.8	1575.2	1676.9	1789.3
57.5°	1011.2	1021.8	1060.0	1115.1	1210.5	1259.3	1305.9	1409.8	1507.3	1634.5	1780.8
60°	924.3	937.0	975.2	1038.8	1134.2	1185.1	1233.8	1344.1	1471.3	1628.2	1816.8
62.5°	833.2	854.4	881.9	960.4	1057.9	1108.8	1168.1	1295.3	1462.8	1662.1	1886.8
65°	750.5	761.1	803.5	884.0	987.9	1047.3	1115.1	1278.4	1490.4	1734.2	1969.5
67.5°	663.6	678.4	725.0	814.1	930.7	1000.6	1085.4	1295.3	1554.0	1812.6	2018.2
70°	585.1	595.7	653.0	750.5	890.4	981.6	1085.4	1337.7	1615.4	1842.3	2003.4
72.5°	498.2	515.2	585.1	703.8	873.4	983.7	1106.6	1382.2	1628.2	1802.0	1920.7
75°	413.4	438.8	530.0	665.7	869.2	994.3	1125.7	1375.9	1568.8	1700.2	1804.1
77.5°	343.4	375.2	477.0	640.2	860.7	983.7	1104.5	1301.7	1456.4	1581.5	1679.0
80°	265.0	313.8	432.5	608.4	822.6	928.6	1026.1	1195.7	1320.8	1441.6	1547.6
82.5°	201.4	256.5	385.8	559.7	744.1	833.2	909.5	1060.0	1191.4	1305.9	1435.2
85°	144.2	203.5	332.8	487.6	642.4	720.8	790.8	932.8	1062.1	1191.4	1322.9
87.5°	99.6	159.0	282.0	417.6	555.4	619.0	686.9	822.6	949.8	1074.8	1219.0
90°	80.6	129.3	235.3	358.3	477.0	547.0	606.3	729.3	856.5	987.9	1121.5
92.5°	76.3	108.1	197.2	303.2	413.4	470.6	525.8	638.1	756.8	879.8	998.5
95°	70.0	86.9	154.8	245.9	339.2	390.1	434.6	540.6	640.2	748.4	862.8
97.5°	65.7	70.0	118.7	190.8	269.2	311.6	347.7	430.4	519.4	602.1	706.0
100°	59.4	61.5	91.2	148.4	205.6	241.7	271.4	339.2	402.8	468.5	538.5
102.5°	53.0	53.0	70.0	110.2	161.1	184.4	209.9	265.0	311.6	354.0	407.0
105°	46.6	46.6	55.1	84.8	120.8	144.2	161.1	201.4	237.4	269.2	303.2
107.5°	42.4	40.3	44.5	65.7	95.4	112.4	129.3	159.0	186.6	207.8	231.1
110°	33.9	33.9	36.0	53.0	78.4	91.2	106.0	129.3	152.6	167.5	180.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	29.7	27.6	27.6	42.4	63.6	76.3	86.9	110.2	129.3	142.0	148.4
115°	23.3	23.3	21.2	31.8	50.9	63.6	72.1	93.3	110.2	120.8	127.2
117.5°	19.1	19.1	19.1	23.3	42.4	50.9	61.5	80.6	95.4	106.0	112.4
120°	14.8	14.8	14.8	14.8	31.8	40.3	50.9	67.8	82.7	93.3	99.6
122.5°	12.7	10.6	10.6	10.6	21.2	31.8	38.2	55.1	70.0	80.6	89.0
125°	8.5	8.5	8.5	6.4	14.8	21.2	29.7	44.5	57.2	67.8	74.2
127.5°	6.4	6.4	6.4	6.4	6.4	12.7	19.1	33.9	46.6	57.2	63.6
130°	6.4	6.4	4.2	4.2	2.1	6.4	10.6	23.3	33.9	44.5	53.0
132.5°	4.2	4.2	4.2	2.1	2.1	2.1	4.2	14.8	25.4	33.9	40.3
135°	4.2	4.2	2.1	2.1	0.0	0.0	0.0	8.5	17.0	23.3	29.7
137.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	2.1	8.5	14.8	21.2
140°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	2.1	6.4	12.7
142.5°	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	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	0.0	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°	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2	2370.2
2.5°	2351.1	2355.3	2355.3	2355.3	2355.3	2355.3	2351.1	2349.0	2346.8	2346.8
5°	2340.5	2344.7	2346.8	2346.8	2346.8	2346.8	2344.7	2342.6	2340.5	2338.4
7.5°	2327.8	2334.1	2338.4	2340.5	2340.5	2340.5	2338.4	2338.4	2334.1	2332.0
10°	2315.0	2321.4	2327.8	2332.0	2334.1	2334.1	2334.1	2334.1	2332.0	2329.9
12.5°	2306.6	2317.2	2325.6	2329.9	2329.9	2332.0	2336.2	2336.2	2334.1	2332.0
15°	2296.0	2312.9	2323.5	2329.9	2329.9	2334.1	2342.6	2342.6	2340.5	2342.6
17.5°	2287.5	2304.4	2321.4	2332.0	2336.2	2342.6	2349.0	2351.1	2353.2	2351.1
20°	2270.5	2298.1	2321.4	2334.1	2342.6	2344.7	2359.6	2370.2	2370.2	2365.9
22.5°	2264.2	2296.0	2323.5	2351.1	2355.3	2363.8	2382.9	2393.5	2399.8	2399.8
25°	2251.4	2293.8	2334.1	2368.0	2382.9	2393.5	2412.6	2429.5	2425.3	2431.6
27.5°	2245.1	2296.0	2336.2	2378.6	2399.8	2410.4	2438.0	2448.6	2455.0	2459.2
30°	2240.8	2298.1	2342.6	2389.2	2406.2	2427.4	2452.8	2469.8	2478.3	2476.2
32.5°	2234.5	2291.7	2349.0	2389.2	2414.7	2431.6	2457.1	2476.2	2488.9	2491.0
35°	2219.6	2285.4	2338.4	2387.1	2406.2	2427.4	2457.1	2467.7	2488.9	2493.1
37.5°	2200.6	2264.2	2315.0	2368.0	2387.1	2404.1	2440.1	2450.7	2459.2	2465.6
40°	2170.9	2230.2	2285.4	2336.2	2353.2	2372.3	2397.7	2414.7	2427.4	2425.3
42.5°	2132.7	2187.8	2240.8	2296.0	2308.7	2329.9	2361.7	2380.8	2393.5	2397.7
45°	2071.2	2134.8	2196.3	2245.1	2270.5	2293.8	2329.9	2351.1	2365.9	2380.8
47.5°	2011.9	2090.3	2160.3	2215.4	2245.1	2268.4	2312.9	2344.7	2368.0	2376.5
50°	1965.2	2045.8	2126.4	2209.0	2240.8	2270.5	2321.4	2355.3	2380.8	2393.5
52.5°	1927.1	2024.6	2126.4	2228.1	2272.6	2308.7	2368.0	2410.4	2444.4	2455.0
55°	1912.2	2035.2	2164.5	2281.1	2332.0	2378.6	2446.5	2486.8	2520.7	2527.0
57.5°	1937.7	2103.0	2245.1	2365.9	2416.8	2455.0	2520.7	2554.6	2582.2	2586.4
60°	2007.6	2181.5	2329.9	2433.8	2486.8	2520.7	2569.4	2594.9	2614.0	2614.0
62.5°	2094.6	2251.4	2380.8	2467.7	2505.8	2531.3	2561.0	2590.6	2597.0	2605.5
65°	2160.3	2296.0	2385.0	2448.6	2482.5	2493.1	2524.9	2537.6	2554.6	2554.6
67.5°	2164.5	2272.6	2336.2	2387.1	2406.2	2421.0	2459.2	2474.0	2486.8	2488.9
70°	2107.3	2181.5	2253.6	2298.1	2319.3	2349.0	2385.0	2408.3	2421.0	2423.2
72.5°	2016.1	2084.0	2156.0	2223.9	2253.6	2279.0	2325.6	2357.4	2370.2	2378.6
75°	1905.9	1980.1	2067.0	2147.6	2177.2	2202.7	2268.4	2298.1	2323.5	2325.6
77.5°	1787.2	1876.2	1978.0	2064.9	2103.0	2147.6	2200.6	2245.1	2264.2	2281.1
80°	1668.4	1782.9	1886.8	1988.6	2024.6	2075.5	2139.1	2190.0	2211.2	2230.2
82.5°	1556.1	1685.4	1812.6	1916.5	1956.8	2001.3	2067.0	2124.2	2143.3	2156.0
85°	1458.6	1592.1	1717.2	1823.2	1874.1	1912.2	1986.4	2035.2	2062.8	2073.4
87.5°	1354.7	1490.4	1613.3	1727.8	1770.2	1808.4	1884.7	1937.7	1963.1	1969.5
90°	1252.9	1392.8	1507.3	1607.0	1657.8	1704.5	1774.4	1823.2	1848.6	1848.6
92.5°	1123.6	1257.2	1378.0	1469.2	1517.9	1556.1	1632.4	1668.4	1710.8	1710.8
95°	975.2	1091.8	1204.2	1297.4	1337.7	1378.0	1441.6	1490.4	1513.7	1524.3
97.5°	807.7	896.8	998.5	1074.8	1130.0	1142.7	1212.6	1261.4	1286.8	1278.4
100°	608.4	678.4	759.0	822.6	865.0	888.3	937.0	964.6	1002.8	1007.0
102.5°	453.7	504.6	551.2	587.2	621.2	631.8	665.7	693.2	710.2	729.3
105°	332.8	362.5	390.1	415.5	421.9	441.0	468.5	487.6	477.0	479.1
107.5°	248.0	262.9	277.7	286.2	296.8	309.5	315.9	315.9	326.5	330.7
110°	188.7	197.2	203.5	205.6	209.9	209.9	209.9	209.9	212.0	216.2



TEST NUMBER: P237838

CATALOG NUMBER: 8VRVT2-LD5-12-DR100-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	150.5	154.8	154.8	154.8	152.6	152.6	150.5	148.4	144.2	148.4
115°	129.3	129.3	125.1	123.0	120.8	118.7	114.5	110.2	108.1	112.4
117.5°	114.5	112.4	110.2	103.9	101.8	99.6	95.4	93.3	89.0	86.9
120°	101.8	101.8	97.5	95.4	93.3	89.0	84.8	82.7	78.4	76.3
122.5°	91.2	91.2	89.0	86.9	84.8	82.7	78.4	76.3	72.1	72.1
125°	78.4	80.6	80.6	78.4	76.3	76.3	72.1	70.0	67.8	67.8
127.5°	67.8	70.0	72.1	72.1	70.0	70.0	67.8	65.7	63.6	61.5
130°	57.2	61.5	61.5	63.6	63.6	61.5	61.5	59.4	57.2	57.2
132.5°	46.6	50.9	53.0	53.0	55.1	55.1	55.1	53.0	53.0	50.9
135°	36.0	40.3	42.4	44.5	44.5	46.6	46.6	44.5	44.5	44.5
137.5°	27.6	29.7	33.9	36.0	36.0	36.0	36.0	36.0	36.0	36.0
140°	17.0	21.2	25.4	25.4	27.6	27.6	27.6	27.6	27.6	27.6
142.5°	8.5	12.7	14.8	17.0	17.0	19.1	19.1	19.1	19.1	19.1
145°	2.1	4.2	6.4	8.5	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	2.1
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)