

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: P237826

Luminaire Tested: **8VT2-LD5-12-DR-W-UNV-L850-CD2-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8VT2-LD5-12-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: (224) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12574.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.6 / 1.58
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 8.33' x H: 0.17')
CIE Type: Semi-Direct

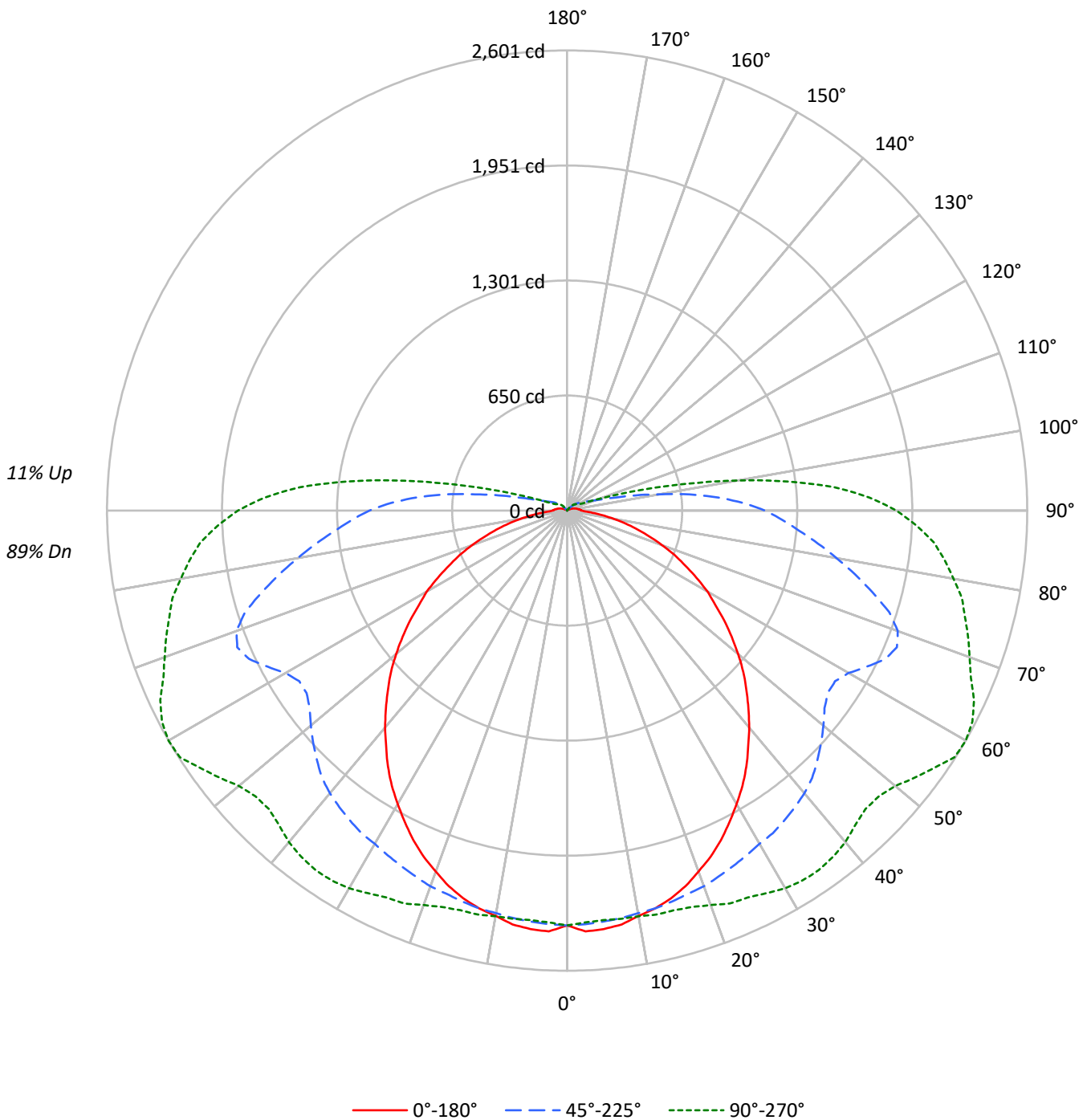
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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	51	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	33	26	21	31	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°	6057	6057	6057
5°	6147	5918	5855
10°	6080	5806	5768
15°	6035	5734	5741
20°	5925	5695	5816
25°	5808	5661	5952
30°	5646	5671	6168
35°	5492	5742	6342
40°	5309	5816	6447
45°	5133	5844	6535
50°	4952	5856	6964
55°	4744	5968	7731
60°	4574	6621	8521
65°	4312	7898	9046
70°	4083	8907	9546
75°	3840	9231	10354
80°	3513	9514	11414
85°	3479	10121	12829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.8
10°-20°	650.6	5.2
20°-30°	1031.3	8.2
30°-40°	1335.6	10.6
40°-50°	1512.2	12.0
50°-60°	1642.1	13.1
60°-70°	1755.7	14.0
70°-80°	1671.4	13.3
80°-90°	1372.9	10.9
90°-100°	903.3	7.2
100°-110°	313.9	2.5
110°-120°	92.8	0.7
120°-130°	46.2	0.4
130°-140°	19.6	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°	1905.1	15.2
0°-40°	3240.7	25.8
0°-60°	6395.0	50.9
0°-90°	11195.0	89.0
90°-120°	1310.0	10.4
90°-150°	1379.0	11.0
90°-180°	1379.0	11.0
0°-180°	12574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2374	2360	2332	2334	2324	225
15°	2268	2271	2288	2338	2338	639
25°	2056	2099	2218	2366	2413	946
35°	1766	1876	2139	2396	2480	1103
45°	1433	1616	1999	2288	2385	1106
55°	1083	1327	1798	2355	2534	970
65°	736	1047	1984	2455	2538	733
75°	413	996	1787	2177	2328	436
85°	144	721	1317	1876	2082	143
90°	81	536	1117	1677	1862	46
95°	70	384	854	1323	1516	55
105°	47	136	288	401	475	49
115°	23	62	121	112	95	24
125°	8	21	72	74	64	8
135°	4	0	30	44	42	3
145°	2	0	0	8	8	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°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2380.9	2374.5	2368.2	2366.0	2366.0	2366.0	2366.0	2361.8	2355.4	2349.1	2340.6
5°	2374.5	2370.3	2363.9	2359.7	2359.7	2359.7	2359.7	2355.4	2349.1	2340.6	2332.1
7.5°	2359.7	2353.3	2344.8	2342.7	2340.6	2340.6	2342.7	2340.6	2334.2	2330.0	2323.6
10°	2325.8	2323.6	2317.3	2315.2	2319.4	2321.5	2321.5	2321.5	2319.4	2315.2	2310.9
12.5°	2302.4	2294.0	2289.7	2291.8	2294.0	2294.0	2298.2	2300.3	2300.3	2302.4	2302.4
15°	2268.5	2260.0	2257.9	2264.3	2266.4	2270.6	2270.6	2274.9	2277.0	2283.4	2287.6
17.5°	2226.1	2224.0	2215.5	2221.9	2232.5	2238.8	2238.8	2247.3	2253.7	2260.0	2270.6
20°	2171.0	2168.9	2164.6	2173.1	2185.8	2192.2	2202.8	2215.5	2224.0	2247.3	2260.0
22.5°	2118.0	2115.9	2109.5	2122.2	2134.9	2149.8	2162.5	2179.5	2198.5	2219.7	2238.8
25°	2056.5	2054.4	2052.3	2073.5	2088.3	2098.9	2113.7	2139.2	2162.5	2192.2	2217.6
27.5°	1986.5	1988.7	1992.9	2012.0	2035.3	2050.1	2065.0	2101.0	2126.5	2158.3	2196.4
30°	1914.5	1914.5	1927.2	1946.3	1980.2	1995.0	2014.1	2056.5	2081.9	2130.7	2175.2
32.5°	1844.5	1844.5	1850.9	1874.2	1918.7	1937.8	1961.1	2001.4	2043.8	2103.1	2162.5
35°	1766.0	1766.0	1778.8	1810.6	1855.1	1876.3	1901.7	1952.6	2005.6	2073.5	2139.2
37.5°	1681.2	1685.5	1706.7	1740.6	1793.6	1821.2	1842.4	1899.6	1965.3	2039.5	2113.7
40°	1600.7	1604.9	1630.4	1668.5	1725.8	1751.2	1778.8	1850.9	1918.7	1999.3	2086.2
42.5°	1515.9	1528.6	1551.9	1596.4	1651.6	1679.1	1717.3	1791.5	1867.8	1954.7	2050.1
45°	1433.2	1443.8	1469.2	1520.1	1581.6	1615.5	1655.8	1734.2	1819.1	1906.0	1999.3
47.5°	1350.5	1359.0	1390.8	1439.6	1505.3	1549.8	1592.2	1674.9	1766.0	1863.6	1946.3
50°	1261.5	1272.1	1303.9	1356.9	1431.1	1475.6	1518.0	1609.2	1702.4	1800.0	1891.1
52.5°	1172.4	1183.0	1225.4	1284.8	1361.1	1401.4	1450.2	1547.7	1641.0	1740.6	1833.9
55°	1083.4	1096.1	1140.6	1193.6	1278.4	1327.2	1371.7	1475.6	1577.4	1683.4	1797.8
57.5°	992.2	1011.3	1051.6	1117.3	1197.9	1248.7	1297.5	1407.7	1515.9	1645.2	1795.7
60°	915.9	922.2	962.5	1032.5	1121.5	1172.4	1229.7	1342.0	1477.7	1643.1	1836.0
62.5°	824.7	845.9	879.8	951.9	1043.1	1106.7	1163.9	1301.7	1469.2	1689.7	1910.2
65°	735.7	756.9	799.3	877.7	983.7	1047.3	1115.2	1286.9	1503.2	1759.7	1984.4
67.5°	657.2	674.2	720.8	812.0	930.7	1002.8	1094.0	1308.1	1566.8	1825.4	2018.3
70°	570.3	591.5	646.6	750.5	896.8	985.8	1098.2	1354.7	1619.8	1844.5	1988.7
72.5°	485.5	513.1	583.0	706.0	877.7	988.0	1119.4	1386.5	1626.1	1793.6	1908.1
75°	413.4	436.7	523.7	667.8	873.5	996.4	1132.1	1373.8	1560.4	1681.2	1787.2
77.5°	337.1	368.9	479.1	642.4	865.0	988.0	1102.5	1295.4	1448.0	1564.6	1666.4
80°	262.9	309.5	430.4	608.5	824.7	918.0	1011.3	1174.5	1316.6	1435.3	1545.6
82.5°	201.4	252.3	383.7	561.8	737.8	822.6	905.3	1051.6	1178.8	1312.3	1431.1
85°	144.2	201.4	335.0	489.7	640.3	720.8	786.6	924.4	1047.3	1185.1	1316.6
87.5°	99.6	159.0	275.6	413.4	551.2	614.8	680.6	812.0	941.3	1081.3	1219.1
90°	80.6	129.3	231.1	354.1	477.0	536.4	602.1	727.2	848.0	981.6	1117.3
92.5°	76.3	106.0	192.9	296.8	409.2	466.4	519.4	631.8	750.5	879.8	994.3
95°	70.0	84.8	154.8	241.7	335.0	383.7	430.4	530.0	633.9	750.5	854.4
97.5°	63.6	70.0	118.7	186.6	265.0	305.3	343.5	419.8	513.1	595.7	699.6
100°	57.2	59.4	89.0	144.2	201.4	235.3	265.0	332.9	394.3	460.1	527.9
102.5°	50.9	50.9	67.8	108.1	156.9	178.1	203.5	252.3	298.9	341.3	396.5
105°	46.6	46.6	55.1	80.6	116.6	135.7	154.8	192.9	229.0	258.7	288.3
107.5°	40.3	40.3	44.5	63.6	91.2	108.1	120.8	150.5	178.1	199.3	216.3
110°	33.9	33.9	33.9	50.9	74.2	86.9	101.8	125.1	144.2	159.0	169.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	27.6	27.6	27.6	42.4	61.5	72.1	84.8	103.9	120.8	131.4	139.9
115°	23.3	23.3	21.2	31.8	50.9	61.5	72.1	89.0	103.9	114.5	120.8
117.5°	19.1	19.1	17.0	23.3	40.3	50.9	59.4	76.3	91.2	101.8	106.0
120°	14.8	14.8	12.7	14.8	31.8	40.3	50.9	65.7	78.4	89.0	95.4
122.5°	10.6	10.6	10.6	10.6	21.2	29.7	38.2	53.0	67.8	78.4	84.8
125°	8.5	8.5	8.5	6.4	14.8	21.2	29.7	44.5	55.1	65.7	72.1
127.5°	6.4	6.4	6.4	6.4	6.4	12.7	19.1	33.9	44.5	55.1	61.5
130°	6.4	6.4	4.2	4.2	4.2	6.4	12.7	23.3	33.9	42.4	50.9
132.5°	4.2	4.2	4.2	2.1	2.1	2.1	6.4	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	2.1	0.0	0.0	0.0	0.0	2.1	8.5	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	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°	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8	2344.8
2.5°	2338.5	2340.6	2342.7	2342.7	2340.6	2340.6	2336.4	2336.4	2332.1	2330.0
5°	2330.0	2334.2	2336.4	2336.4	2334.2	2334.2	2332.1	2330.0	2325.8	2323.6
7.5°	2323.6	2330.0	2334.2	2334.2	2334.2	2334.2	2332.1	2332.1	2330.0	2327.9
10°	2315.2	2321.5	2327.9	2336.4	2338.5	2338.5	2336.4	2334.2	2330.0	2327.9
12.5°	2306.7	2315.2	2323.6	2332.1	2334.2	2336.4	2340.6	2340.6	2338.5	2338.5
15°	2298.2	2313.0	2325.8	2336.4	2338.5	2344.8	2347.0	2349.1	2344.8	2338.5
17.5°	2289.7	2308.8	2319.4	2336.4	2340.6	2344.8	2349.1	2351.2	2351.2	2349.1
20°	2281.2	2304.6	2323.6	2340.6	2344.8	2351.2	2359.7	2366.0	2372.4	2372.4
22.5°	2268.5	2298.2	2319.4	2344.8	2359.7	2366.0	2383.0	2391.5	2395.7	2404.2
25°	2251.6	2283.4	2325.8	2355.4	2366.0	2378.8	2404.2	2416.9	2416.9	2412.7
27.5°	2243.1	2291.8	2334.2	2363.9	2378.8	2393.6	2416.9	2436.0	2442.4	2438.1
30°	2232.5	2285.5	2334.2	2372.4	2389.4	2408.4	2431.8	2461.4	2465.7	2465.7
32.5°	2219.7	2277.0	2334.2	2376.6	2397.8	2414.8	2442.4	2469.9	2480.5	2478.4
35°	2207.0	2270.6	2325.8	2372.4	2395.7	2416.9	2448.7	2469.9	2478.4	2480.5
37.5°	2187.9	2255.8	2310.9	2361.8	2387.2	2406.3	2440.2	2455.1	2467.8	2467.8
40°	2160.4	2230.4	2291.8	2340.6	2359.7	2378.8	2410.6	2427.5	2438.1	2446.6
42.5°	2128.6	2196.4	2255.8	2298.2	2323.6	2338.5	2374.5	2391.5	2408.4	2410.6
45°	2079.8	2154.0	2211.3	2264.3	2287.6	2302.4	2342.7	2370.3	2385.1	2385.1
47.5°	2028.9	2098.9	2166.7	2232.5	2260.0	2285.5	2332.1	2366.0	2383.0	2389.4
50°	1971.7	2058.6	2139.2	2224.0	2260.0	2291.8	2347.0	2385.1	2406.3	2421.2
52.5°	1935.7	2048.0	2147.7	2247.3	2287.6	2330.0	2400.0	2440.2	2469.9	2478.4
55°	1931.4	2067.1	2190.1	2308.8	2355.4	2395.7	2469.9	2514.4	2537.8	2533.5
57.5°	1963.2	2128.6	2272.8	2380.9	2431.8	2469.9	2537.8	2578.0	2595.0	2595.0
60°	2033.2	2209.1	2349.1	2444.5	2484.8	2520.8	2569.6	2597.1	2605.6	2601.4
62.5°	2105.3	2266.4	2383.0	2461.4	2491.1	2508.1	2548.4	2569.6	2578.0	2582.3
65°	2162.5	2294.0	2374.5	2431.8	2455.1	2472.0	2503.8	2529.3	2533.5	2537.8
67.5°	2156.1	2247.3	2319.4	2372.4	2391.5	2408.4	2440.2	2459.3	2474.2	2469.9
70°	2096.8	2168.9	2236.7	2291.8	2313.0	2336.4	2374.5	2404.2	2410.6	2421.2
72.5°	1992.9	2067.1	2149.8	2204.9	2243.1	2266.4	2313.0	2351.2	2366.0	2376.6
75°	1884.8	1971.7	2054.4	2137.1	2177.3	2215.5	2270.6	2298.2	2334.2	2327.9
77.5°	1770.3	1882.7	1980.2	2073.5	2115.9	2156.1	2213.4	2251.6	2274.9	2285.5
80°	1672.8	1791.5	1899.6	1999.3	2039.5	2086.2	2145.5	2185.8	2211.3	2217.6
82.5°	1562.5	1691.8	1814.8	1918.7	1961.1	2001.4	2069.2	2111.6	2143.4	2151.9
85°	1454.4	1592.2	1719.4	1831.8	1876.3	1920.8	1992.9	2039.5	2069.2	2081.9
87.5°	1363.2	1492.6	1621.9	1727.9	1780.9	1823.3	1895.4	1950.5	1978.1	1978.1
90°	1250.9	1382.3	1511.6	1617.6	1677.0	1706.7	1778.8	1829.7	1863.6	1861.5
92.5°	1132.1	1257.2	1365.3	1471.4	1520.1	1558.3	1634.6	1672.8	1702.4	1708.8
95°	971.0	1083.4	1195.7	1284.8	1322.9	1382.3	1439.6	1488.3	1507.4	1515.9
97.5°	782.3	894.7	973.1	1081.3	1106.7	1147.0	1206.3	1246.6	1265.7	1259.3
100°	600.0	674.2	735.7	803.5	843.8	869.2	920.1	960.4	981.6	979.5
102.5°	426.1	485.5	530.0	583.0	587.3	610.6	642.4	682.7	691.2	701.8
105°	315.9	339.2	373.1	392.2	400.7	428.3	434.6	451.6	453.7	474.9
107.5°	235.3	248.1	260.8	271.4	277.7	279.9	296.8	294.7	298.9	303.2
110°	178.1	184.4	192.9	188.7	197.2	190.8	195.0	192.9	195.0	195.0



TEST NUMBER: P237826

CATALOG NUMBER: 8VT2-LD5-12-DR-W-UNV-L850-CD2-WL-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	144.2	144.2	142.0	139.9	139.9	137.8	137.8	131.4	133.6	131.4
115°	123.0	120.8	116.6	112.4	112.4	108.1	106.0	99.6	97.5	95.4
117.5°	108.1	106.0	101.8	97.5	95.4	93.3	89.0	82.7	80.6	80.6
120°	97.5	95.4	93.3	89.0	86.9	84.8	78.4	76.3	72.1	72.1
122.5°	86.9	86.9	84.8	80.6	80.6	78.4	74.2	70.0	67.8	67.8
125°	76.3	78.4	76.3	74.2	74.2	72.1	70.0	65.7	63.6	63.6
127.5°	65.7	67.8	67.8	67.8	67.8	65.7	63.6	61.5	59.4	59.4
130°	55.1	59.4	59.4	59.4	61.5	59.4	59.4	57.2	55.1	55.1
132.5°	44.5	48.8	50.9	53.0	53.0	53.0	50.9	50.9	48.8	48.8
135°	33.9	38.2	42.4	42.4	44.5	44.5	44.5	44.5	42.4	42.4
137.5°	25.4	29.7	31.8	33.9	33.9	36.0	36.0	36.0	33.9	33.9
140°	17.0	21.2	23.3	25.4	25.4	27.6	27.6	27.6	25.4	25.4
142.5°	8.5	12.7	14.8	17.0	17.0	17.0	19.1	19.1	19.1	17.0
145°	2.1	4.2	6.4	8.5	8.5	8.5	10.6	10.6	10.6	8.5
147.5°	0.0	0.0	0.0	2.1	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)