

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: P237837

Luminaire Tested: **8VT2-LD5-12-DR100-W-UNV-L840-CD2-WL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P237837  
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: 8VT2-LD5-12-DR100-W-UNV-L840-CD2-WL-U  
Description: METALUX VT2 LED LUMINAIRE  
INTERNAL PRISMATIC LENS/100% DR HIGH IMPACT ADDITIVE WIDE DISTRIBUTION  
8FT FIXTURE  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11890.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 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

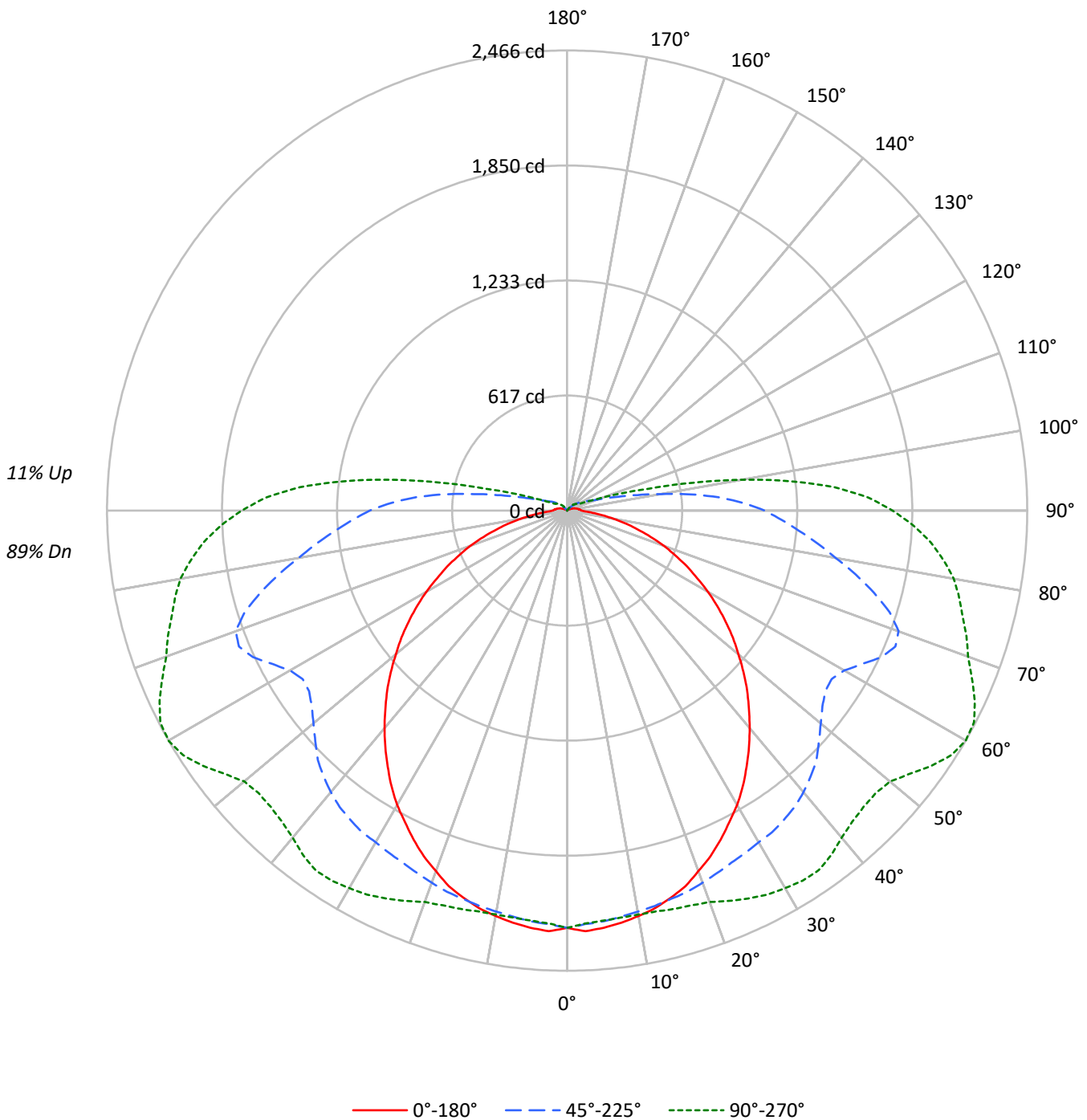
Input Watts (W): 101.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5777	5777	5777
5°	5809	5609	5559
10°	5767	5483	5446
15°	5714	5400	5426
20°	5612	5348	5472
25°	5496	5316	5659
30°	5373	5350	5844
35°	5213	5433	6014
40°	5048	5492	6030
45°	4886	5525	6154
50°	4703	5494	6495
55°	4536	5604	7275
60°	4354	6181	8078
65°	4150	7396	8591
70°	3952	8465	9013
75°	3622	8792	9759
80°	3340	8987	10830
85°	3281	9594	12054



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	1.8
10°-20°	614.0	5.2
20°-30°	973.9	8.2
30°-40°	1262.4	10.6
40°-50°	1424.1	12.0
50°-60°	1542.7	13.0
60°-70°	1659.4	14.0
70°-80°	1579.9	13.3
80°-90°	1295.1	10.9
90°-100°	857.5	7.2
100°-110°	308.5	2.6
110°-120°	93.6	0.8
120°-130°	45.5	0.4
130°-140°	19.0	0.2
140°-150°	3.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1799.1	15.1
0°-40°	3061.5	25.7
0°-60°	6028.4	50.7
0°-90°	10562.9	88.8
90°-120°	1259.5	10.6
90°-150°	1327.1	11.2
90°-180°	1327.0	11.2
0°-180°	11890.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2236	2236	2236	2236	2236	
5°	2244	2234	2210	2214	2206	213
15°	2148	2144	2154	2198	2210	605
25°	1946	1974	2082	2248	2294	896
35°	1676	1768	2024	2270	2352	1049
45°	1364	1526	1890	2142	2246	1051
55°	1036	1260	1688	2200	2384	927
65°	708	988	1858	2342	2410	701
75°	390	938	1702	2054	2194	418
85°	136	680	1248	1768	1956	135
90°	76	516	1058	1564	1744	44
95°	66	368	814	1262	1438	52
105°	44	136	286	398	452	47
115°	22	60	120	114	106	23
125°	8	20	70	72	64	8
135°	4	0	28	42	42	3
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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2256.1	2252.1	2246.1	2244.1	2244.1	2244.1	2244.1	2240.1	2234.1	2226.1	2218.1
5°	2244.1	2240.1	2234.1	2234.1	2232.1	2234.1	2234.1	2230.1	2226.1	2218.1	2210.1
7.5°	2228.1	2226.1	2218.1	2214.1	2214.1	2214.1	2218.1	2214.1	2212.1	2204.1	2196.1
10°	2206.1	2202.1	2198.1	2198.1	2200.1	2200.1	2200.1	2202.1	2198.1	2188.1	2182.1
12.5°	2182.1	2176.1	2172.1	2172.1	2174.1	2174.1	2176.1	2176.1	2176.1	2170.1	2170.1
15°	2148.1	2146.1	2138.1	2140.1	2140.1	2144.1	2146.1	2148.1	2146.1	2152.1	2154.1
17.5°	2110.1	2108.1	2100.1	2100.1	2104.1	2106.1	2112.1	2120.1	2124.1	2132.1	2142.1
20°	2056.1	2056.1	2052.1	2056.1	2064.1	2068.1	2072.1	2086.1	2094.1	2110.1	2122.1
22.5°	2006.1	2002.1	2002.1	2006.1	2014.1	2024.1	2032.1	2052.1	2066.1	2086.1	2102.1
25°	1946.1	1944.1	1942.1	1952.1	1964.1	1974.1	1988.1	2012.1	2032.1	2056.1	2082.1
27.5°	1882.1	1880.1	1884.1	1892.1	1914.1	1928.1	1940.1	1972.1	1996.1	2034.1	2068.1
30°	1822.1	1816.1	1820.1	1832.1	1860.1	1880.1	1892.1	1928.1	1962.1	2006.1	2052.1
32.5°	1752.1	1746.1	1754.1	1772.1	1804.1	1824.1	1846.1	1884.1	1924.1	1978.1	2044.1
35°	1676.1	1678.1	1682.1	1710.1	1744.1	1768.1	1790.1	1840.1	1890.1	1956.1	2024.1
37.5°	1600.1	1596.1	1612.1	1644.1	1684.1	1714.1	1736.1	1788.1	1858.1	1930.1	2002.1
40°	1522.1	1526.1	1538.1	1574.1	1616.1	1654.1	1678.1	1746.1	1822.1	1896.1	1970.1
42.5°	1442.0	1452.0	1464.1	1506.1	1558.1	1588.1	1624.1	1698.1	1778.1	1856.1	1932.1
45°	1364.0	1372.0	1390.0	1436.0	1486.1	1526.1	1566.1	1644.1	1732.1	1814.1	1890.1
47.5°	1282.0	1290.0	1314.0	1362.0	1418.0	1462.1	1504.1	1588.1	1678.1	1762.1	1830.1
50°	1198.0	1210.0	1234.0	1282.0	1356.0	1396.0	1438.0	1530.1	1614.1	1696.1	1774.1
52.5°	1120.0	1126.0	1164.0	1210.0	1286.0	1332.0	1372.0	1466.1	1546.1	1638.1	1724.1
55°	1036.0	1048.0	1082.0	1128.0	1212.0	1260.0	1306.0	1396.0	1486.1	1582.1	1688.1
57.5°	954.0	964.0	1000.0	1052.0	1142.0	1188.0	1232.0	1330.0	1422.0	1542.1	1680.1
60°	872.0	884.0	920.0	980.0	1070.0	1118.0	1164.0	1268.0	1388.0	1536.1	1714.1
62.5°	786.0	806.0	832.0	906.0	998.0	1046.0	1102.0	1222.0	1380.0	1568.1	1780.1
65°	708.0	718.0	758.0	834.0	932.0	988.0	1052.0	1206.0	1406.0	1636.1	1858.1
67.5°	626.0	640.0	684.0	768.0	878.0	944.0	1024.0	1222.0	1466.1	1710.1	1904.1
70°	552.0	562.0	616.0	708.0	840.0	926.0	1024.0	1262.0	1524.1	1738.1	1890.1
72.5°	470.0	486.0	552.0	664.0	824.0	928.0	1044.0	1304.0	1536.1	1700.1	1812.1
75°	390.0	414.0	500.0	628.0	820.0	938.0	1062.0	1298.0	1480.1	1604.1	1702.1
77.5°	324.0	354.0	450.0	604.0	812.0	928.0	1042.0	1228.0	1374.0	1492.1	1584.1
80°	250.0	296.0	408.0	574.0	776.0	876.0	968.0	1128.0	1246.0	1360.0	1460.0
82.5°	190.0	242.0	364.0	528.0	702.0	786.0	858.0	1000.0	1124.0	1232.0	1354.0
85°	136.0	192.0	314.0	460.0	606.0	680.0	746.0	880.0	1002.0	1124.0	1248.0
87.5°	94.0	150.0	266.0	394.0	524.0	584.0	648.0	776.0	896.0	1014.0	1150.0
90°	76.0	122.0	222.0	338.0	450.0	516.0	572.0	688.0	808.0	932.0	1058.0
92.5°	72.0	102.0	186.0	286.0	390.0	444.0	496.0	602.0	714.0	830.0	942.0
95°	66.0	82.0	146.0	232.0	320.0	368.0	410.0	510.0	604.0	706.0	814.0
97.5°	62.0	66.0	112.0	180.0	254.0	294.0	328.0	406.0	490.0	568.0	666.0
100°	56.0	58.0	86.0	140.0	194.0	228.0	256.0	320.0	380.0	442.0	508.0
102.5°	50.0	50.0	66.0	104.0	152.0	174.0	198.0	250.0	294.0	334.0	384.0
105°	44.0	44.0	52.0	80.0	114.0	136.0	152.0	190.0	224.0	254.0	286.0
107.5°	40.0	38.0	42.0	62.0	90.0	106.0	122.0	150.0	176.0	196.0	218.0
110°	32.0	32.0	34.0	50.0	74.0	86.0	100.0	122.0	144.0	158.0	170.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	28.0	26.0	26.0	40.0	60.0	72.0	82.0	104.0	122.0	134.0	140.0
115°	22.0	22.0	20.0	30.0	48.0	60.0	68.0	88.0	104.0	114.0	120.0
117.5°	18.0	18.0	18.0	22.0	40.0	48.0	58.0	76.0	90.0	100.0	106.0
120°	14.0	14.0	14.0	14.0	30.0	38.0	48.0	64.0	78.0	88.0	94.0
122.5°	12.0	10.0	10.0	10.0	20.0	30.0	36.0	52.0	66.0	76.0	84.0
125°	8.0	8.0	8.0	6.0	14.0	20.0	28.0	42.0	54.0	64.0	70.0
127.5°	6.0	6.0	6.0	6.0	6.0	12.0	18.0	32.0	44.0	54.0	60.0
130°	6.0	6.0	4.0	4.0	2.0	6.0	10.0	22.0	32.0	42.0	50.0
132.5°	4.0	4.0	4.0	2.0	2.0	2.0	4.0	14.0	24.0	32.0	38.0
135°	4.0	4.0	2.0	2.0	0.0	0.0	0.0	8.0	16.0	22.0	28.0
137.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	2.0	8.0	14.0	20.0
140°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	12.0
142.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	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	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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2218.1	2222.1	2222.1	2222.1	2222.1	2222.1	2218.1	2216.1	2214.1	2214.1
5°	2208.1	2212.1	2214.1	2214.1	2214.1	2214.1	2212.1	2210.1	2208.1	2206.1
7.5°	2196.1	2202.1	2206.1	2208.1	2208.1	2208.1	2206.1	2206.1	2202.1	2200.1
10°	2184.1	2190.1	2196.1	2200.1	2202.1	2202.1	2202.1	2202.1	2200.1	2198.1
12.5°	2176.1	2186.1	2194.1	2198.1	2198.1	2200.1	2204.1	2204.1	2202.1	2200.1
15°	2166.1	2182.1	2192.1	2198.1	2198.1	2202.1	2210.1	2210.1	2208.1	2210.1
17.5°	2158.1	2174.1	2190.1	2200.1	2204.1	2210.1	2216.1	2218.1	2220.1	2218.1
20°	2142.1	2168.1	2190.1	2202.1	2210.1	2212.1	2226.1	2236.1	2236.1	2232.1
22.5°	2136.1	2166.1	2192.1	2218.1	2222.1	2230.1	2248.1	2258.1	2264.1	2264.1
25°	2124.1	2164.1	2202.1	2234.1	2248.1	2258.1	2276.1	2292.1	2288.1	2294.1
27.5°	2118.1	2166.1	2204.1	2244.1	2264.1	2274.1	2300.1	2310.1	2316.1	2320.1
30°	2114.1	2168.1	2210.1	2254.1	2270.1	2290.1	2314.1	2330.1	2338.1	2336.1
32.5°	2108.1	2162.1	2216.1	2254.1	2278.1	2294.1	2318.1	2336.1	2348.1	2350.1
35°	2094.1	2156.1	2206.1	2252.1	2270.1	2290.1	2318.1	2328.1	2348.1	2352.1
37.5°	2076.1	2136.1	2184.1	2234.1	2252.1	2268.1	2302.1	2312.1	2320.1	2326.1
40°	2048.1	2104.1	2156.1	2204.1	2220.1	2238.1	2262.1	2278.1	2290.1	2288.1
42.5°	2012.1	2064.1	2114.1	2166.1	2178.1	2198.1	2228.1	2246.1	2258.1	2262.1
45°	1954.1	2014.1	2072.1	2118.1	2142.1	2164.1	2198.1	2218.1	2232.1	2246.1
47.5°	1898.1	1972.1	2038.1	2090.1	2118.1	2140.1	2182.1	2212.1	2234.1	2242.1
50°	1854.1	1930.1	2006.1	2084.1	2114.1	2142.1	2190.1	2222.1	2246.1	2258.1
52.5°	1818.1	1910.1	2006.1	2102.1	2144.1	2178.1	2234.1	2274.1	2306.1	2316.1
55°	1804.1	1920.1	2042.1	2152.1	2200.1	2244.1	2308.1	2346.1	2378.1	2384.1
57.5°	1828.1	1984.1	2118.1	2232.1	2280.1	2316.1	2378.1	2410.1	2436.1	2440.1
60°	1894.1	2058.1	2198.1	2296.1	2346.1	2378.1	2424.1	2448.1	2466.1	2466.1
62.5°	1976.1	2124.1	2246.1	2328.1	2364.1	2388.1	2416.1	2444.1	2450.1	2458.1
65°	2038.1	2166.1	2250.1	2310.1	2342.1	2352.1	2382.1	2394.1	2410.1	2410.1
67.5°	2042.1	2144.1	2204.1	2252.1	2270.1	2284.1	2320.1	2334.1	2346.1	2348.1
70°	1988.1	2058.1	2126.1	2168.1	2188.1	2216.1	2250.1	2272.1	2284.1	2286.1
72.5°	1902.1	1966.1	2034.1	2098.1	2126.1	2150.1	2194.1	2224.1	2236.1	2244.1
75°	1798.1	1868.1	1950.1	2026.1	2054.1	2078.1	2140.1	2168.1	2192.1	2194.1
77.5°	1686.1	1770.1	1866.1	1948.1	1984.1	2026.1	2076.1	2118.1	2136.1	2152.1
80°	1574.1	1682.1	1780.1	1876.1	1910.1	1958.1	2018.1	2066.1	2086.1	2104.1
82.5°	1468.1	1590.1	1710.1	1808.1	1846.1	1888.1	1950.1	2004.1	2022.1	2034.1
85°	1376.0	1502.1	1620.1	1720.1	1768.1	1804.1	1874.1	1920.1	1946.1	1956.1
87.5°	1278.0	1406.0	1522.1	1630.1	1670.1	1706.1	1778.1	1828.1	1852.1	1858.1
90°	1182.0	1314.0	1422.0	1516.1	1564.1	1608.1	1674.1	1720.1	1744.1	1744.1
92.5°	1060.0	1186.0	1300.0	1386.0	1432.0	1468.1	1540.1	1574.1	1614.1	1614.1
95°	920.0	1030.0	1136.0	1224.0	1262.0	1300.0	1360.0	1406.0	1428.0	1438.0
97.5°	762.0	846.0	942.0	1014.0	1066.0	1078.0	1144.0	1190.0	1214.0	1206.0
100°	574.0	640.0	716.0	776.0	816.0	838.0	884.0	910.0	946.0	950.0
102.5°	428.0	476.0	520.0	554.0	586.0	596.0	628.0	654.0	670.0	688.0
105°	314.0	342.0	368.0	392.0	398.0	416.0	442.0	460.0	450.0	452.0
107.5°	234.0	248.0	262.0	270.0	280.0	292.0	298.0	298.0	308.0	312.0
110°	178.0	186.0	192.0	194.0	198.0	198.0	198.0	198.0	200.0	204.0





TEST NUMBER: P237837

CATALOG NUMBER: 8VT2-LD5-12-DR100-W-UNV-L840-CD2-WL-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	142.0	146.0	146.0	146.0	144.0	144.0	142.0	140.0	136.0	140.0
115°	122.0	122.0	118.0	116.0	114.0	112.0	108.0	104.0	102.0	106.0
117.5°	108.0	106.0	104.0	98.0	96.0	94.0	90.0	88.0	84.0	82.0
120°	96.0	96.0	92.0	90.0	88.0	84.0	80.0	78.0	74.0	72.0
122.5°	86.0	86.0	84.0	82.0	80.0	78.0	74.0	72.0	68.0	68.0
125°	74.0	76.0	76.0	74.0	72.0	72.0	68.0	66.0	64.0	64.0
127.5°	64.0	66.0	68.0	68.0	66.0	66.0	64.0	62.0	60.0	58.0
130°	54.0	58.0	58.0	60.0	60.0	58.0	58.0	56.0	54.0	54.0
132.5°	44.0	48.0	50.0	50.0	52.0	52.0	52.0	50.0	50.0	48.0
135°	34.0	38.0	40.0	42.0	42.0	44.0	44.0	42.0	42.0	42.0
137.5°	26.0	28.0	32.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
140°	16.0	20.0	24.0	24.0	26.0	26.0	26.0	26.0	26.0	26.0
142.5°	8.0	12.0	14.0	16.0	16.0	18.0	18.0	18.0	18.0	18.0
145°	2.0	4.0	6.0	8.0	10.0	10.0	10.0	10.0	10.0	10.0
147.5°	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0
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)