

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: P237825

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237825
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-L840-CD2-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% 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: 11862.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

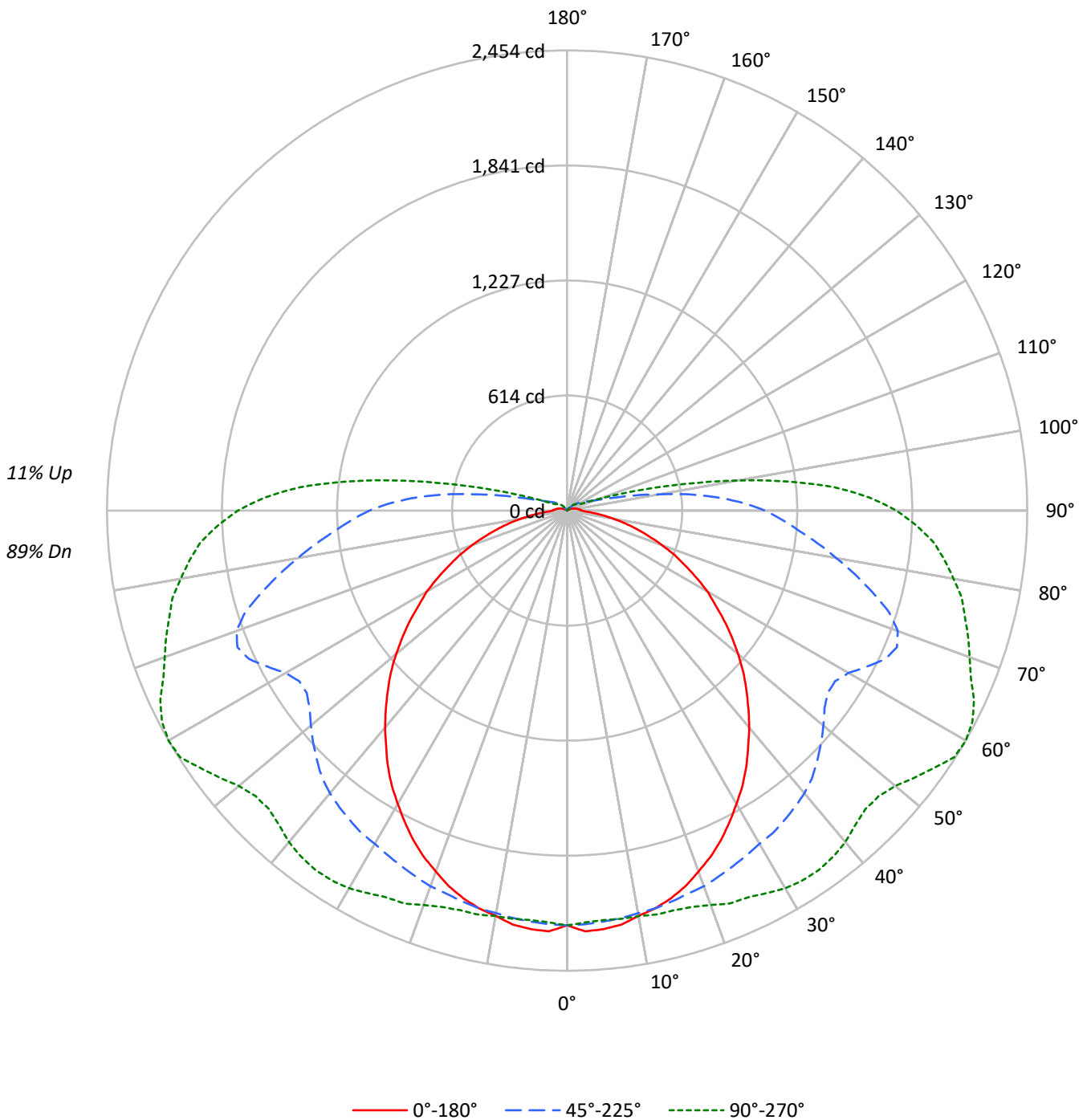
Input Watts (W): 101.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5715	5715	5715
5°	5799	5583	5523
10°	5735	5478	5441
15°	5693	5410	5416
20°	5590	5373	5487
25°	5479	5341	5615
30°	5326	5350	5819
35°	5181	5417	5983
40°	5008	5487	6082
45°	4843	5513	6165
50°	4671	5525	6570
55°	4475	5630	7293
60°	4315	6246	8039
65°	4068	7451	8534
70°	3852	8403	9005
75°	3622	8708	9768
80°	3314	8974	10768
85°	3281	9548	12103



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.5	1.8
10°-20°	613.8	5.2
20°-30°	973.0	8.2
30°-40°	1260.0	10.6
40°-50°	1426.5	12.0
50°-60°	1549.1	13.1
60°-70°	1656.3	14.0
70°-80°	1576.7	13.3
80°-90°	1295.2	10.9
90°-100°	852.1	7.2
100°-110°	296.1	2.5
110°-120°	87.6	0.7
120°-130°	43.5	0.4
130°-140°	18.5	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°	1797.2	15.2
0°-40°	3057.2	25.8
0°-60°	6032.9	50.9
0°-90°	10561.1	89.0
90°-120°	1235.8	10.4
90°-150°	1300.9	11.0
90°-180°	1301.0	11.0
0°-180°	11862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2212	2212	2212	2212	2212	
5°	2240	2226	2200	2202	2192	212
15°	2140	2142	2158	2206	2206	603
25°	1940	1980	2092	2232	2276	892
35°	1666	1770	2018	2260	2340	1041
45°	1352	1524	1886	2158	2250	1043
55°	1022	1252	1696	2222	2390	915
65°	694	988	1872	2316	2394	691
75°	390	940	1686	2054	2196	411
85°	136	680	1242	1770	1964	135
90°	76	506	1054	1582	1756	44
95°	66	362	806	1248	1430	51
105°	44	128	272	378	448	46
115°	22	58	114	106	90	22
125°	8	20	68	70	60	8
135°	4	0	28	42	40	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°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2.5°	2246.1	2240.1	2234.1	2232.1	2232.1	2232.1	2232.1	2228.1	2222.1	2216.1	2208.1
5°	2240.1	2236.1	2230.1	2226.1	2226.1	2226.1	2226.1	2222.1	2216.1	2208.1	2200.1
7.5°	2226.1	2220.1	2212.1	2210.1	2208.1	2208.1	2210.1	2208.1	2202.1	2198.1	2192.1
10°	2194.1	2192.1	2186.1	2184.1	2188.1	2190.1	2190.1	2190.1	2188.1	2184.1	2180.1
12.5°	2172.1	2164.1	2160.1	2162.1	2164.1	2164.1	2168.1	2170.1	2170.1	2172.1	2172.1
15°	2140.1	2132.1	2130.1	2136.1	2138.1	2142.1	2142.1	2146.1	2148.1	2154.1	2158.1
17.5°	2100.1	2098.1	2090.1	2096.1	2106.1	2112.1	2112.1	2120.1	2126.1	2132.1	2142.1
20°	2048.1	2046.1	2042.1	2050.1	2062.1	2068.1	2078.1	2090.1	2098.1	2120.1	2132.1
22.5°	1998.1	1996.1	1990.1	2002.1	2014.1	2028.1	2040.1	2056.1	2074.1	2094.1	2112.1
25°	1940.1	1938.1	1936.1	1956.1	1970.1	1980.1	1994.1	2018.1	2040.1	2068.1	2092.1
27.5°	1874.1	1876.1	1880.1	1898.1	1920.1	1934.1	1948.1	1982.1	2006.1	2036.1	2072.1
30°	1806.0	1806.0	1818.0	1836.1	1868.1	1882.1	1900.1	1940.1	1964.1	2010.1	2052.1
32.5°	1740.0	1740.0	1746.0	1768.0	1810.0	1828.0	1850.1	1888.1	1928.1	1984.1	2040.1
35°	1666.0	1666.0	1678.0	1708.0	1750.0	1770.0	1794.0	1842.1	1892.1	1956.1	2018.1
37.5°	1586.0	1590.0	1610.0	1642.0	1692.0	1718.0	1738.0	1792.0	1854.1	1924.1	1994.1
40°	1510.0	1514.0	1538.0	1574.0	1628.0	1652.0	1678.0	1746.0	1810.0	1886.1	1968.1
42.5°	1430.0	1442.0	1464.0	1506.0	1558.0	1584.0	1620.0	1690.0	1762.0	1844.1	1934.1
45°	1352.0	1362.0	1386.0	1434.0	1492.0	1524.0	1562.0	1636.0	1716.0	1798.0	1886.1
47.5°	1274.0	1282.0	1312.0	1358.0	1420.0	1462.0	1502.0	1580.0	1666.0	1758.0	1836.1
50°	1190.0	1200.0	1230.0	1280.0	1350.0	1392.0	1432.0	1518.0	1606.0	1698.0	1784.0
52.5°	1106.0	1116.0	1156.0	1212.0	1284.0	1322.0	1368.0	1460.0	1548.0	1642.0	1730.0
55°	1022.0	1034.0	1076.0	1126.0	1206.0	1252.0	1294.0	1392.0	1488.0	1588.0	1696.0
57.5°	936.0	954.0	992.0	1054.0	1130.0	1178.0	1224.0	1328.0	1430.0	1552.0	1694.0
60°	864.0	870.0	908.0	974.0	1058.0	1106.0	1160.0	1266.0	1394.0	1550.0	1732.0
62.5°	778.0	798.0	830.0	898.0	984.0	1044.0	1098.0	1228.0	1386.0	1594.0	1802.0
65°	694.0	714.0	754.0	828.0	928.0	988.0	1052.0	1214.0	1418.0	1660.0	1872.1
67.5°	620.0	636.0	680.0	766.0	878.0	946.0	1032.0	1234.0	1478.0	1722.0	1904.1
70°	538.0	558.0	610.0	708.0	846.0	930.0	1036.0	1278.0	1528.0	1740.0	1876.1
72.5°	458.0	484.0	550.0	666.0	828.0	932.0	1056.0	1308.0	1534.0	1692.0	1800.0
75°	390.0	412.0	494.0	630.0	824.0	940.0	1068.0	1296.0	1472.0	1586.0	1686.0
77.5°	318.0	348.0	452.0	606.0	816.0	932.0	1040.0	1222.0	1366.0	1476.0	1572.0
80°	248.0	292.0	406.0	574.0	778.0	866.0	954.0	1108.0	1242.0	1354.0	1458.0
82.5°	190.0	238.0	362.0	530.0	696.0	776.0	854.0	992.0	1112.0	1238.0	1350.0
85°	136.0	190.0	316.0	462.0	604.0	680.0	742.0	872.0	988.0	1118.0	1242.0
87.5°	94.0	150.0	260.0	390.0	520.0	580.0	642.0	766.0	888.0	1020.0	1150.0
90°	76.0	122.0	218.0	334.0	450.0	506.0	568.0	686.0	800.0	926.0	1054.0
92.5°	72.0	100.0	182.0	280.0	386.0	440.0	490.0	596.0	708.0	830.0	938.0
95°	66.0	80.0	146.0	228.0	316.0	362.0	406.0	500.0	598.0	708.0	806.0
97.5°	60.0	66.0	112.0	176.0	250.0	288.0	324.0	396.0	484.0	562.0	660.0
100°	54.0	56.0	84.0	136.0	190.0	222.0	250.0	314.0	372.0	434.0	498.0
102.5°	48.0	48.0	64.0	102.0	148.0	168.0	192.0	238.0	282.0	322.0	374.0
105°	44.0	44.0	52.0	76.0	110.0	128.0	146.0	182.0	216.0	244.0	272.0
107.5°	38.0	38.0	42.0	60.0	86.0	102.0	114.0	142.0	168.0	188.0	204.0
110°	32.0	32.0	32.0	48.0	70.0	82.0	96.0	118.0	136.0	150.0	160.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	26.0	26.0	26.0	40.0	58.0	68.0	80.0	98.0	114.0	124.0	132.0
115°	22.0	22.0	20.0	30.0	48.0	58.0	68.0	84.0	98.0	108.0	114.0
117.5°	18.0	18.0	16.0	22.0	38.0	48.0	56.0	72.0	86.0	96.0	100.0
120°	14.0	14.0	12.0	14.0	30.0	38.0	48.0	62.0	74.0	84.0	90.0
122.5°	10.0	10.0	10.0	10.0	20.0	28.0	36.0	50.0	64.0	74.0	80.0
125°	8.0	8.0	8.0	6.0	14.0	20.0	28.0	42.0	52.0	62.0	68.0
127.5°	6.0	6.0	6.0	6.0	6.0	12.0	18.0	32.0	42.0	52.0	58.0
130°	6.0	6.0	4.0	4.0	4.0	6.0	12.0	22.0	32.0	40.0	48.0
132.5°	4.0	4.0	4.0	2.0	2.0	2.0	6.0	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	2.0	0.0	0.0	0.0	0.0	2.0	8.0	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	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°	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1	2212.1
2.5°	2206.1	2208.1	2210.1	2210.1	2208.1	2208.1	2204.1	2204.1	2200.1	2198.1
5°	2198.1	2202.1	2204.1	2204.1	2202.1	2202.1	2200.1	2198.1	2194.1	2192.1
7.5°	2192.1	2198.1	2202.1	2202.1	2202.1	2202.1	2200.1	2200.1	2198.1	2196.1
10°	2184.1	2190.1	2196.1	2204.1	2206.1	2206.1	2204.1	2202.1	2198.1	2196.1
12.5°	2176.1	2184.1	2192.1	2200.1	2202.1	2204.1	2208.1	2208.1	2206.1	2206.1
15°	2168.1	2182.1	2194.1	2204.1	2206.1	2212.1	2214.1	2216.1	2212.1	2206.1
17.5°	2160.1	2178.1	2188.1	2204.1	2208.1	2212.1	2216.1	2218.1	2218.1	2216.1
20°	2152.1	2174.1	2192.1	2208.1	2212.1	2218.1	2226.1	2232.1	2238.1	2238.1
22.5°	2140.1	2168.1	2188.1	2212.1	2226.1	2232.1	2248.1	2256.1	2260.1	2268.1
25°	2124.1	2154.1	2194.1	2222.1	2232.1	2244.1	2268.1	2280.1	2280.1	2276.1
27.5°	2116.1	2162.1	2202.1	2230.1	2244.1	2258.1	2280.1	2298.1	2304.1	2300.1
30°	2106.1	2156.1	2202.1	2238.1	2254.1	2272.1	2294.1	2322.1	2326.1	2326.1
32.5°	2094.1	2148.1	2202.1	2242.1	2262.1	2278.1	2304.1	2330.1	2340.1	2338.1
35°	2082.1	2142.1	2194.1	2238.1	2260.1	2280.1	2310.1	2330.1	2338.1	2340.1
37.5°	2064.1	2128.1	2180.1	2228.1	2252.1	2270.1	2302.1	2316.1	2328.1	2328.1
40°	2038.1	2104.1	2162.1	2208.1	2226.1	2244.1	2274.1	2290.1	2300.1	2308.1
42.5°	2008.1	2072.1	2128.1	2168.1	2192.1	2206.1	2240.1	2256.1	2272.1	2274.1
45°	1962.1	2032.1	2086.1	2136.1	2158.1	2172.1	2210.1	2236.1	2250.1	2250.1
47.5°	1914.1	1980.1	2044.1	2106.1	2132.1	2156.1	2200.1	2232.1	2248.1	2254.1
50°	1860.1	1942.1	2018.1	2098.1	2132.1	2162.1	2214.1	2250.1	2270.1	2284.1
52.5°	1826.0	1932.1	2026.1	2120.1	2158.1	2198.1	2264.1	2302.1	2330.1	2338.1
55°	1822.0	1950.1	2066.1	2178.1	2222.1	2260.1	2330.1	2372.1	2394.1	2390.1
57.5°	1852.1	2008.1	2144.1	2246.1	2294.1	2330.1	2394.1	2432.1	2448.1	2448.1
60°	1918.1	2084.1	2216.1	2306.1	2344.1	2378.1	2424.1	2450.1	2458.1	2454.1
62.5°	1986.1	2138.1	2248.1	2322.1	2350.1	2366.1	2404.1	2424.1	2432.1	2436.1
65°	2040.1	2164.1	2240.1	2294.1	2316.1	2332.1	2362.1	2386.1	2390.1	2394.1
67.5°	2034.1	2120.1	2188.1	2238.1	2256.1	2272.1	2302.1	2320.1	2334.1	2330.1
70°	1978.1	2046.1	2110.1	2162.1	2182.1	2204.1	2240.1	2268.1	2274.1	2284.1
72.5°	1880.1	1950.1	2028.1	2080.1	2116.1	2138.1	2182.1	2218.1	2232.1	2242.1
75°	1778.0	1860.1	1938.1	2016.1	2054.1	2090.1	2142.1	2168.1	2202.1	2196.1
77.5°	1670.0	1776.0	1868.1	1956.1	1996.1	2034.1	2088.1	2124.1	2146.1	2156.1
80°	1578.0	1690.0	1792.0	1886.1	1924.1	1968.1	2024.1	2062.1	2086.1	2092.1
82.5°	1474.0	1596.0	1712.0	1810.0	1850.1	1888.1	1952.1	1992.1	2022.1	2030.1
85°	1372.0	1502.0	1622.0	1728.0	1770.0	1812.0	1880.1	1924.1	1952.1	1964.1
87.5°	1286.0	1408.0	1530.0	1630.0	1680.0	1720.0	1788.0	1840.1	1866.1	1866.1
90°	1180.0	1304.0	1426.0	1526.0	1582.0	1610.0	1678.0	1726.0	1758.0	1756.0
92.5°	1068.0	1186.0	1288.0	1388.0	1434.0	1470.0	1542.0	1578.0	1606.0	1612.0
95°	916.0	1022.0	1128.0	1212.0	1248.0	1304.0	1358.0	1404.0	1422.0	1430.0
97.5°	738.0	844.0	918.0	1020.0	1044.0	1082.0	1138.0	1176.0	1194.0	1188.0
100°	566.0	636.0	694.0	758.0	796.0	820.0	868.0	906.0	926.0	924.0
102.5°	402.0	458.0	500.0	550.0	554.0	576.0	606.0	644.0	652.0	662.0
105°	298.0	320.0	352.0	370.0	378.0	404.0	410.0	426.0	428.0	448.0
107.5°	222.0	234.0	246.0	256.0	262.0	264.0	280.0	278.0	282.0	286.0
110°	168.0	174.0	182.0	178.0	186.0	180.0	184.0	182.0	184.0	184.0



TEST NUMBER: P237825

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	136.0	136.0	134.0	132.0	132.0	130.0	130.0	124.0	126.0	124.0
115°	116.0	114.0	110.0	106.0	106.0	102.0	100.0	94.0	92.0	90.0
117.5°	102.0	100.0	96.0	92.0	90.0	88.0	84.0	78.0	76.0	76.0
120°	92.0	90.0	88.0	84.0	82.0	80.0	74.0	72.0	68.0	68.0
122.5°	82.0	82.0	80.0	76.0	76.0	74.0	70.0	66.0	64.0	64.0
125°	72.0	74.0	72.0	70.0	70.0	68.0	66.0	62.0	60.0	60.0
127.5°	62.0	64.0	64.0	64.0	64.0	62.0	60.0	58.0	56.0	56.0
130°	52.0	56.0	56.0	56.0	58.0	56.0	56.0	54.0	52.0	52.0
132.5°	42.0	46.0	48.0	50.0	50.0	50.0	48.0	48.0	46.0	46.0
135°	32.0	36.0	40.0	40.0	42.0	42.0	42.0	42.0	40.0	40.0
137.5°	24.0	28.0	30.0	32.0	32.0	34.0	34.0	34.0	32.0	32.0
140°	16.0	20.0	22.0	24.0	24.0	26.0	26.0	26.0	24.0	24.0
142.5°	8.0	12.0	14.0	16.0	16.0	16.0	18.0	18.0	18.0	16.0
145°	2.0	4.0	6.0	8.0	8.0	8.0	10.0	10.0	10.0	8.0
147.5°	0.0	0.0	0.0	2.0	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)