

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: FAIL-SAFE

Report Number: P241479

Luminaire Tested: **FVS8M-3-LD4-40-3LO-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-30)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-3-LD4-40-3LO-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
3FT LENGTH, 3-MODULE LED WITH PA187 LENS  
Light Source: (252) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

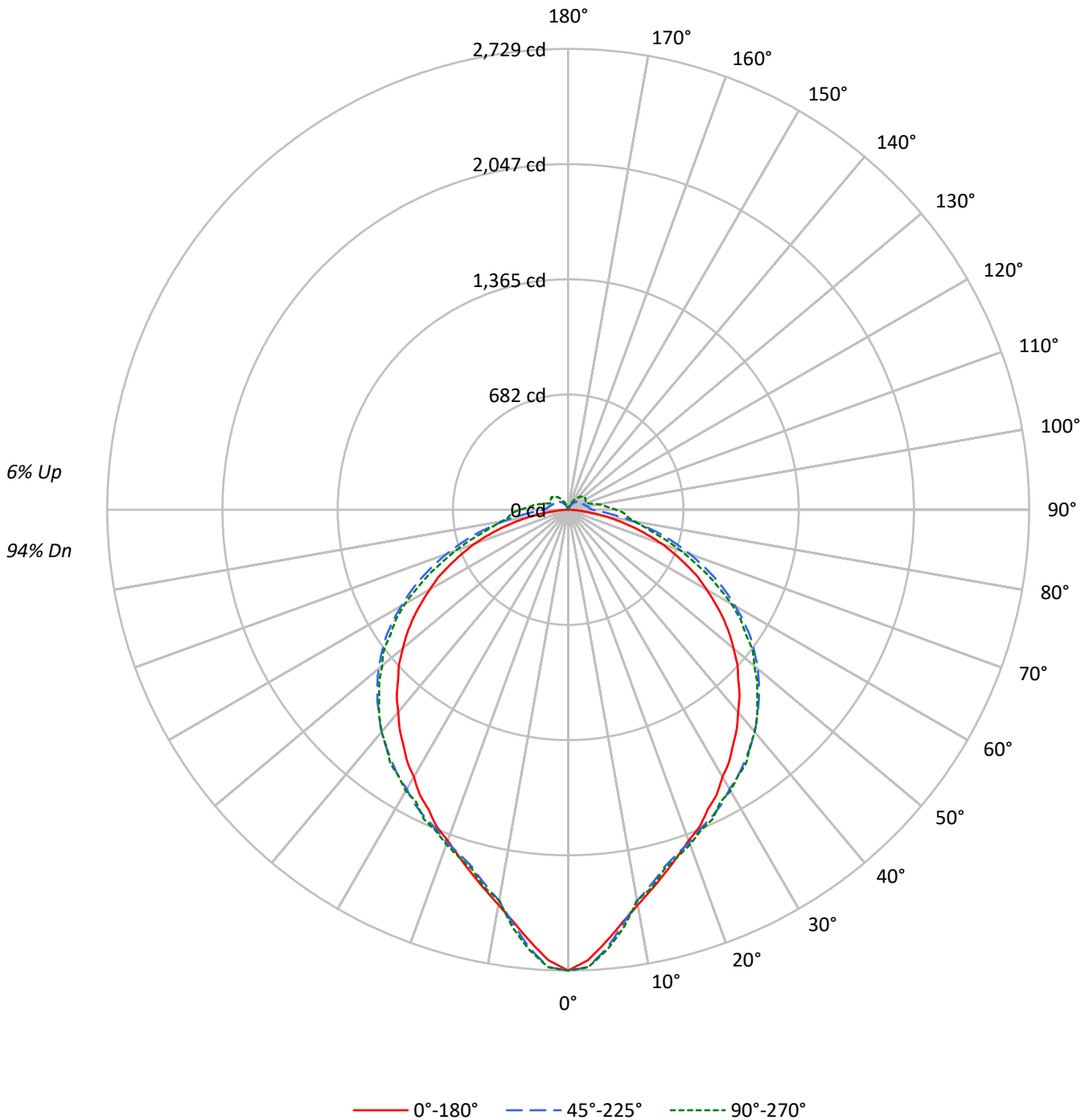
Lumens per Lamp: N/A  
Luminaire Lumens: 7378.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 61.6  
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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CATALOG NUMBER: FVS8M-3-LD4-40-3LO-PA187-UNV-EDC1

### 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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94					94			
1	107	101	97	93	103	99	94	91	93	90	87	88	85	83	84	81	79	77					77			
2	97	88	81	75	93	85	79	73	81	75	71	77	72	68	73	69	66	63					63			
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53					53			
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45					45			
5	74	61	51	45	71	59	51	44	56	49	43	54	47	42	51	46	41	39					39			
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	41	36	34					34			
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30					30			
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27					27			
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24					24			
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22					22			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	15938	15938	15938
5°	14988	15023	15048
10°	13959	13476	13400
15°	13264	12592	12556
20°	12721	12168	12112
25°	12318	11857	11787
30°	11966	11574	11470
35°	11704	11409	11298
40°	11439	11249	11007
45°	11188	11028	10661
50°	10944	10792	10291
55°	10629	10484	9878
60°	10145	9957	9366
65°	9581	9333	8473
70°	8815	8498	7468
75°	7475	7497	6395
80°	5694	6130	5864
85°	2868	4776	6429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.5	3.3
10°-20°	624.3	8.5
20°-30°	922.5	12.5
30°-40°	1125.2	15.3
40°-50°	1197.8	16.2
50°-60°	1126.0	15.3
60°-70°	891.8	12.1
70°-80°	554.6	7.5
80°-90°	244.5	3.3
90°-100°	130.0	1.8
100°-110°	95.8	1.3
110°-120°	74.7	1.0
120°-130°	64.8	0.9
130°-140°	46.7	0.6
140°-150°	26.2	0.4
150°-160°	10.3	0.1
160°-170°	2.1	0.0
170°-180°	0.0	0.0
0°-30°	1787.4	24.2
0°-40°	2912.5	39.5
0°-60°	5236.4	71.0
0°-90°	6927.3	93.9
90°-120°	300.5	4.1
90°-150°	438.2	5.9
90°-180°	451.0	6.1
0°-180°	7378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2729	2729	2729	2729	2729	
5°	2568	2587	2607	2621	2618	239
15°	2224	2213	2192	2194	2203	627
25°	1957	1984	2008	2013	2022	905
35°	1700	1770	1820	1837	1836	1066
45°	1424	1510	1597	1595	1582	1102
55°	1120	1213	1318	1308	1283	999
65°	769	859	959	949	910	762
75°	394	482	575	572	522	419
85°	68	145	231	278	344	88
90°	1	66	142	203	282	4
95°	1	55	125	181	222	1
105°	1	47	104	140	138	1
115°	1	40	89	112	114	1
125°	1	34	82	114	122	1
135°	1	25	65	96	110	1
145°	2	13	44	68	79	1
155°	2	5	22	38	44	1
165°	3	1	5	10	14	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241479

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4
2.5°	2670.1	2675.3	2679.9	2682.5	2685.1	2692.3	2697.5	2698.1	2706.0	2711.8	2709.9
5°	2568.4	2572.9	2582.1	2586.6	2583.4	2586.6	2593.8	2596.4	2598.4	2601.0	2606.8
7.5°	2464.0	2461.4	2469.3	2467.3	2470.6	2468.6	2469.9	2469.3	2475.8	2477.1	2477.7
10°	2375.4	2378.0	2379.3	2374.1	2373.4	2375.4	2371.5	2367.5	2365.6	2355.8	2351.2
12.5°	2298.4	2298.4	2299.1	2289.3	2284.7	2281.5	2286.0	2284.7	2276.3	2267.8	2273.0
15°	2224.1	2226.1	2227.4	2220.2	2214.3	2213.0	2215.0	2201.9	2203.2	2207.8	2192.1
17.5°	2153.0	2160.8	2157.6	2149.1	2149.1	2149.1	2147.2	2144.5	2147.2	2142.6	2138.0
20°	2085.2	2087.2	2086.5	2090.4	2090.4	2089.8	2089.1	2090.4	2095.6	2085.2	2097.6
22.5°	2032.4	2034.4	2037.6	2030.4	2028.5	2025.9	2031.1	2046.1	2041.5	2049.4	2046.1
25°	1957.4	1958.1	1957.4	1964.6	1976.3	1983.5	1988.7	1990.0	1993.9	2005.7	2008.3
27.5°	1903.3	1903.9	1912.4	1915.7	1922.2	1930.0	1931.3	1941.8	1952.2	1956.8	1966.5
30°	1827.0	1836.1	1837.4	1854.4	1872.0	1877.9	1881.8	1892.9	1900.7	1913.1	1910.5
32.5°	1772.2	1777.5	1789.8	1800.3	1812.7	1817.2	1827.7	1844.6	1856.3	1868.7	1870.7
35°	1700.5	1703.1	1715.5	1733.1	1759.8	1769.6	1781.4	1784.6	1802.2	1815.9	1819.8
37.5°	1638.6	1643.1	1659.4	1675.1	1690.1	1703.8	1719.4	1736.4	1750.7	1761.8	1770.3
40°	1564.9	1568.1	1587.1	1607.3	1636.0	1649.7	1654.9	1680.3	1695.9	1705.7	1718.1
42.5°	1501.6	1504.9	1521.9	1542.1	1562.9	1582.5	1594.9	1619.0	1635.3	1647.0	1656.2
45°	1424.0	1431.2	1446.9	1474.3	1502.9	1510.1	1523.8	1547.3	1569.5	1589.7	1596.8
47.5°	1358.2	1360.8	1379.7	1398.6	1427.3	1443.0	1459.3	1479.5	1506.2	1519.9	1532.3
50°	1278.0	1286.5	1302.1	1326.9	1353.0	1367.3	1386.2	1412.3	1433.8	1452.7	1465.1
52.5°	1201.1	1205.6	1223.9	1250.0	1279.3	1296.2	1309.9	1336.7	1366.0	1383.0	1390.8
55°	1120.2	1125.4	1145.6	1171.1	1199.1	1212.8	1229.7	1259.1	1288.4	1304.1	1317.8
57.5°	1032.2	1043.3	1061.5	1088.9	1113.7	1127.4	1145.6	1178.9	1204.3	1221.3	1231.7
60°	945.5	953.3	972.8	997.0	1032.2	1047.8	1062.2	1091.5	1113.0	1131.9	1141.7
62.5°	865.9	869.8	887.4	910.2	939.6	953.9	970.2	1002.2	1024.3	1040.6	1052.4
65°	769.4	779.8	796.1	817.7	845.7	859.4	875.7	907.6	931.8	951.3	959.1
67.5°	679.4	682.0	702.9	727.7	755.7	768.8	782.4	813.1	836.6	852.2	862.0
70°	588.8	590.1	612.3	630.5	661.2	675.5	687.2	714.0	741.4	754.4	765.5
72.5°	489.7	495.5	518.4	537.9	562.7	575.7	593.4	619.4	641.6	657.9	666.4
75°	394.5	399.7	416.0	442.1	467.5	481.9	498.8	523.6	541.8	562.1	575.1
77.5°	302.5	316.9	325.4	348.2	376.9	393.8	405.6	428.4	446.6	462.9	473.4
80°	218.4	221.7	239.3	260.2	287.5	298.6	311.7	336.5	354.7	373.0	384.7
82.5°	136.9	143.4	161.1	180.6	204.1	215.2	227.6	251.0	271.2	285.6	301.2
85°	67.8	74.3	90.6	108.9	134.3	144.8	156.5	178.0	196.9	212.6	230.8
87.5°	22.8	28.0	42.4	60.6	82.2	91.9	102.4	121.9	138.9	157.8	172.8
90°	1.3	6.5	19.6	37.2	56.7	66.5	76.3	91.9	109.5	125.8	142.1
92.5°	0.7	5.2	17.0	33.3	51.5	60.0	67.8	84.1	101.1	116.1	131.1
95°	0.7	4.6	15.6	30.6	46.9	55.4	63.9	80.2	96.5	111.5	125.2
97.5°	0.7	3.9	14.3	28.7	44.3	52.8	60.6	76.9	91.9	106.3	119.3
100°	0.7	3.9	13.7	27.4	42.4	50.2	58.0	73.7	88.0	101.1	113.5
102.5°	0.7	3.9	13.0	26.1	41.1	48.3	56.1	70.4	84.1	96.5	108.9
105°	0.7	3.3	12.4	25.4	39.8	46.9	53.5	67.8	80.2	92.6	104.3
107.5°	0.7	3.3	11.7	24.1	37.8	45.0	52.2	65.2	77.6	89.3	99.8
110°	0.7	2.6	11.1	23.5	36.5	43.7	50.2	63.2	75.0	86.1	95.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.7	2.6	10.4	22.2	35.2	42.4	48.9	61.3	73.0	82.8	91.9
115°	0.7	2.0	9.8	20.9	33.9	40.4	46.9	59.3	70.4	80.2	89.3
117.5°	0.7	2.0	9.1	20.2	32.6	39.1	45.0	57.4	68.5	78.9	87.4
120°	0.7	2.0	8.5	18.9	31.3	37.2	43.7	55.4	67.2	76.9	86.1
122.5°	0.7	1.3	7.8	17.6	29.3	35.2	41.7	53.5	64.6	75.0	84.8
125°	0.7	1.3	7.2	17.0	28.0	33.9	39.8	50.9	62.6	72.4	82.2
127.5°	1.3	1.3	6.5	15.6	26.1	31.9	37.2	48.9	59.3	69.1	78.9
130°	1.3	1.3	5.9	13.7	24.1	30.0	35.2	45.6	56.1	65.2	75.0
132.5°	1.3	1.3	5.2	12.4	22.2	27.4	32.6	42.4	52.2	61.3	70.4
135°	1.3	1.3	3.9	11.1	19.6	24.8	29.3	39.1	48.3	56.7	65.2
137.5°	1.3	1.3	3.3	9.1	17.0	21.5	26.1	35.2	44.3	52.2	60.6
140°	1.3	1.3	2.6	7.8	15.0	18.9	22.8	31.3	39.8	47.6	55.4
142.5°	2.0	1.3	2.6	6.5	12.4	16.3	19.6	26.7	34.6	42.4	49.6
145°	2.0	1.3	2.0	5.2	10.4	13.0	16.3	22.8	30.0	37.2	44.3
147.5°	2.0	2.0	2.0	3.9	8.5	11.1	13.7	19.6	25.4	31.9	37.8
150°	2.0	2.0	1.3	3.3	6.5	8.5	11.1	15.6	20.9	26.7	31.9
152.5°	2.0	2.0	1.3	2.6	5.2	6.5	8.5	13.0	17.0	21.5	26.7
155°	2.0	2.0	2.0	2.0	3.9	5.2	6.5	9.8	13.7	17.0	21.5
157.5°	2.0	2.0	2.0	2.0	2.6	3.9	4.6	7.2	9.8	13.0	16.3
160°	2.6	2.0	2.0	1.3	2.0	2.6	3.3	5.2	7.2	9.8	11.7
162.5°	2.6	2.6	2.0	2.0	1.3	2.0	2.6	3.3	4.6	6.5	7.8
165°	2.6	2.6	2.0	2.0	1.3	1.3	2.0	2.0	3.3	3.9	5.2
167.5°	2.6	2.6	2.0	2.0	1.3	1.3	1.3	1.3	2.0	2.0	2.6
170°	2.6	2.6	2.0	2.0	1.3	1.3	1.3	1.3	0.7	0.7	1.3
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°	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4
2.5°	2713.8	2709.2	2711.8	2712.5	2714.4	2717.0	2710.5	2709.9	2711.8	2711.8
5°	2607.5	2613.4	2612.7	2617.9	2621.2	2618.6	2619.2	2621.2	2623.8	2617.9
7.5°	2472.5	2476.4	2483.6	2478.4	2484.9	2481.7	2491.4	2485.6	2496.6	2498.6
10°	2351.2	2351.9	2360.4	2363.6	2371.5	2359.7	2356.5	2353.9	2346.7	2349.9
12.5°	2262.6	2250.2	2240.4	2246.3	2256.0	2263.2	2276.3	2284.7	2288.6	2290.0
15°	2186.3	2198.7	2204.5	2203.9	2193.5	2190.2	2188.2	2190.8	2198.0	2202.6
17.5°	2152.4	2143.2	2134.8	2154.3	2166.1	2173.2	2173.9	2169.3	2166.7	2155.0
20°	2086.5	2104.8	2122.4	2107.4	2096.9	2093.7	2090.4	2101.5	2108.7	2109.3
22.5°	2059.1	2071.5	2047.4	2070.2	2082.0	2085.2	2077.4	2067.6	2060.4	2054.6
25°	2013.5	2008.3	2033.7	2019.4	2012.8	2006.3	2016.1	2020.7	2019.4	2022.0
27.5°	1957.4	1977.0	1958.7	1972.4	1986.1	1991.3	1975.7	1962.6	1952.8	1950.2
30°	1925.5	1911.1	1943.7	1935.2	1923.5	1917.6	1915.7	1920.2	1921.6	1922.9
32.5°	1874.0	1888.9	1874.6	1870.0	1883.1	1888.3	1890.9	1879.2	1875.9	1869.4
35°	1825.7	1829.0	1826.4	1845.9	1836.8	1832.2	1829.6	1834.2	1836.8	1835.5
37.5°	1788.5	1771.6	1797.7	1780.1	1787.2	1790.5	1793.8	1781.4	1777.5	1767.7
40°	1720.1	1733.8	1720.7	1735.1	1735.1	1726.6	1712.9	1710.3	1712.9	1717.5
42.5°	1664.0	1665.3	1683.6	1661.4	1656.2	1655.5	1664.0	1662.0	1652.3	1656.8
45°	1606.6	1612.5	1594.2	1590.3	1594.9	1591.0	1578.6	1576.6	1581.8	1582.5
47.5°	1536.8	1544.7	1525.8	1524.5	1518.6	1512.7	1519.9	1524.5	1518.6	1517.3
50°	1471.6	1456.6	1461.9	1452.1	1454.7	1459.3	1444.3	1435.1	1435.1	1437.7
52.5°	1394.1	1398.6	1388.2	1399.9	1390.1	1381.7	1382.3	1379.1	1378.4	1378.4
55°	1317.1	1322.3	1329.5	1309.3	1308.0	1306.7	1302.1	1291.7	1284.5	1283.2
57.5°	1238.9	1239.5	1241.5	1235.0	1237.6	1231.7	1212.1	1214.7	1212.8	1208.9
60°	1148.9	1156.7	1145.0	1140.4	1137.2	1135.2	1133.2	1122.8	1115.6	1115.6
62.5°	1055.6	1049.8	1052.4	1042.6	1046.5	1047.2	1028.3	1020.4	1012.0	1009.4
65°	962.4	954.6	952.6	953.9	948.7	933.7	927.2	922.6	912.9	910.2
67.5°	863.9	865.3	861.3	851.6	843.7	839.8	827.4	815.7	807.2	804.6
70°	765.5	764.2	766.1	754.4	757.7	749.8	734.2	720.5	716.6	708.8
72.5°	669.6	671.6	670.9	670.3	663.8	654.6	644.2	633.8	627.9	614.2
75°	579.0	586.8	581.0	575.7	571.8	566.6	560.8	540.5	529.5	522.3
77.5°	483.8	492.9	496.2	489.0	487.1	487.1	476.0	462.3	457.7	455.8
80°	391.2	401.7	409.5	410.1	409.5	406.2	403.6	401.7	399.7	397.7
82.5°	313.0	325.4	330.6	333.2	337.8	337.1	343.6	348.8	354.7	358.0
85°	241.9	253.0	264.1	273.2	278.4	284.9	292.8	305.8	326.0	343.6
87.5°	187.8	200.8	215.8	228.2	232.8	238.6	253.0	274.5	301.2	318.8
90°	157.1	171.5	185.8	198.2	203.4	211.3	227.6	247.1	270.6	282.3
92.5°	144.8	158.4	171.5	183.9	191.0	198.2	211.9	225.6	239.9	247.8
95°	138.2	150.6	163.0	174.7	180.6	187.1	196.3	208.0	217.8	222.3
97.5°	131.7	143.4	154.5	165.6	170.8	176.0	186.5	196.9	206.7	206.0
100°	125.8	136.9	146.7	156.5	161.1	165.6	174.1	178.7	181.3	181.9
102.5°	120.6	129.8	138.9	146.7	150.0	154.5	160.4	161.1	161.1	157.8
105°	114.1	123.2	131.1	136.3	139.5	141.5	142.8	142.1	139.5	138.2
107.5°	108.9	116.1	122.6	126.5	127.8	127.8	125.8	124.5	121.9	122.6
110°	103.7	110.2	114.8	116.7	117.4	117.4	116.1	114.1	112.8	112.8





TEST NUMBER: P241479

CATALOG NUMBER: FVS8M-3-LD4-40-3LO-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	99.8	105.6	109.5	111.5	112.2	112.2	112.2	111.5	110.8	110.2
115°	96.5	103.0	106.9	110.2	111.5	112.2	113.5	114.1	113.5	113.5
117.5°	95.8	101.7	107.6	111.5	113.5	114.8	116.7	118.0	117.4	116.7
120°	94.5	101.7	107.6	112.8	114.8	116.7	119.3	120.6	120.0	119.3
122.5°	93.9	101.1	107.6	113.5	115.4	117.4	120.6	121.9	121.3	121.3
125°	91.3	99.1	106.3	112.2	114.1	116.1	120.0	121.3	121.9	121.9
127.5°	88.0	95.8	103.0	108.9	111.5	114.1	117.4	119.3	120.6	120.6
130°	83.5	91.9	99.1	105.0	107.6	110.2	113.5	116.7	118.0	118.7
132.5°	78.9	86.7	93.9	100.4	103.0	105.6	109.5	112.2	114.1	114.8
135°	73.7	80.9	88.0	93.9	96.5	99.8	103.7	106.9	108.9	109.5
137.5°	67.8	75.0	81.5	87.4	90.0	92.6	97.8	101.1	103.0	103.7
140°	61.9	69.1	75.0	80.9	83.5	86.1	90.6	93.9	95.8	96.5
142.5°	56.7	62.6	68.5	73.7	76.3	78.9	82.8	86.1	87.4	88.7
145°	50.2	56.1	61.3	66.5	68.5	70.4	74.3	76.9	78.2	78.9
147.5°	44.3	49.6	54.8	58.7	60.6	62.6	65.9	67.8	69.8	69.8
150°	37.8	43.0	47.6	51.5	53.5	54.8	57.4	59.3	60.0	60.6
152.5°	31.3	35.9	40.4	43.7	45.0	46.9	48.9	50.9	51.5	52.2
155°	24.8	29.3	33.3	36.5	37.8	39.1	40.4	42.4	43.0	43.7
157.5°	19.6	22.8	26.1	29.3	30.0	31.3	32.6	33.9	34.6	34.6
160°	14.3	17.0	19.6	22.2	23.5	24.1	26.1	26.1	27.4	27.4
162.5°	9.8	11.7	13.7	15.6	16.3	17.6	18.9	19.6	20.2	20.2
165°	6.5	7.2	9.1	10.4	10.4	11.1	13.0	13.0	13.0	13.7
167.5°	3.3	3.9	4.6	5.9	5.9	6.5	7.2	7.8	7.8	7.8
170°	1.3	1.3	2.0	2.0	2.0	2.6	2.6	3.3	3.3	3.3
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)