

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: P241515

Luminaire Tested: **FVS8M-4-LD4-40-3LO-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241515  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-45)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-4-LD4-40-3LO-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
4FT LENGTH, 3-MODULE LED WITH PA187 LENS  
Light Source: (252) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

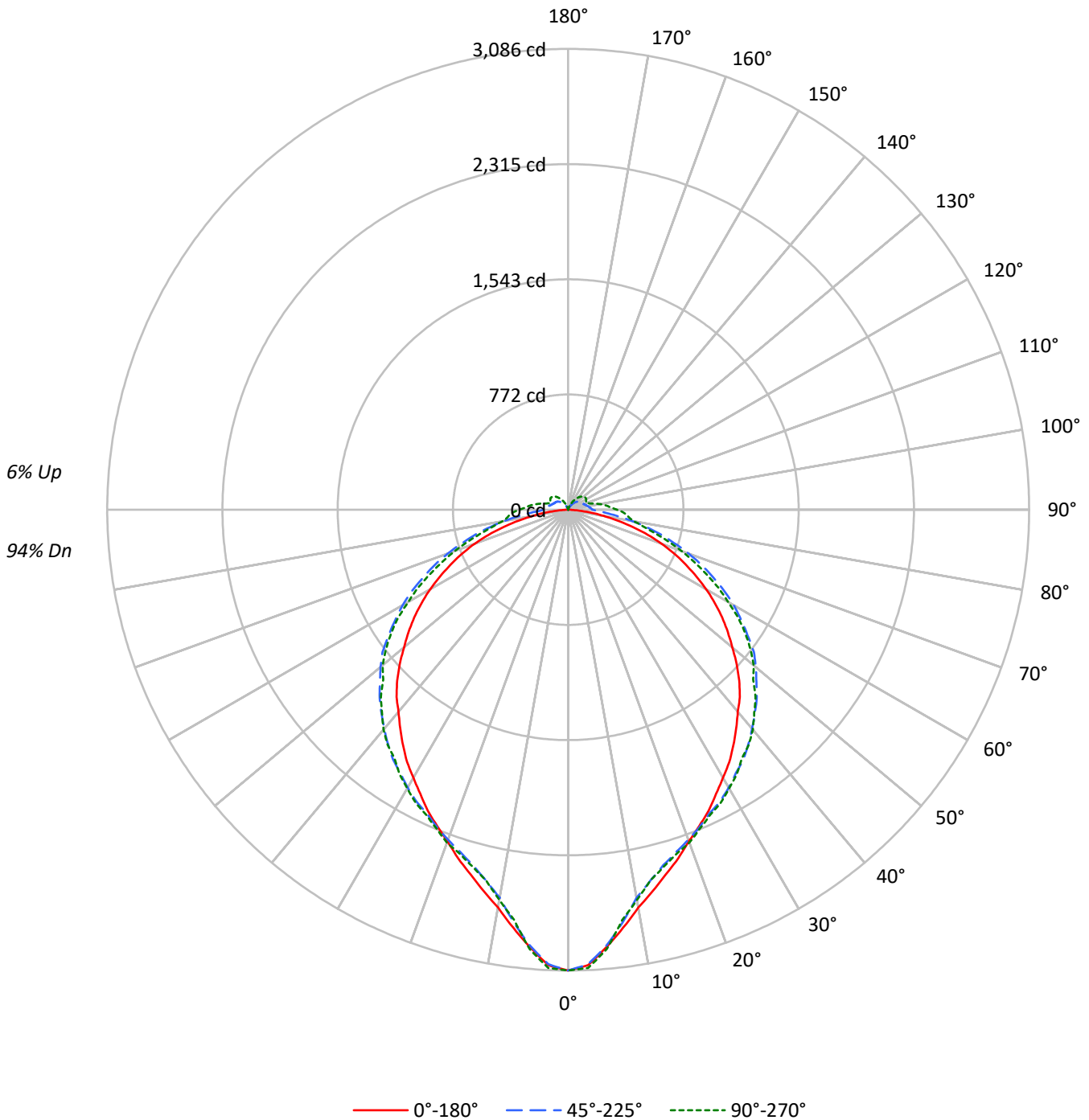
Lumens per Lamp: N/A  
Luminaire Lumens: 8304.0 lumens  
Efficiency: N/A  
Efficacy: 247.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 33.5  
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	97	93	103	98	94	91	93	90	87	88	85	83	83	81	79	77
2	96	88	81	75	93	85	79	73	81	75	71	77	72	68	73	69	66	63
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45
5	74	61	51	45	71	59	50	44	56	49	43	54	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22

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

	0°	45°	90°
0°	13791	13791	13791
5°	13148	12937	12997
10°	12192	11589	11575
15°	11575	10850	10798
20°	11079	10472	10429
25°	10774	10165	10049
30°	10458	10008	9840
35°	10237	9856	9559
40°	9979	9656	9428
45°	9847	9505	9143
50°	9529	9321	8879
55°	9287	9010	8534
60°	8933	8643	7948
65°	8461	8070	7262
70°	7853	7397	6497
75°	6739	6520	5568
80°	5104	5411	5047
85°	2704	4197	5619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.6	3.3
10°-20°	703.2	8.5
20°-30°	1038.2	12.5
30°-40°	1263.4	15.2
40°-50°	1344.8	16.2
50°-60°	1264.5	15.2
60°-70°	1000.3	12.0
70°-80°	624.2	7.5
80°-90°	277.2	3.3
90°-100°	152.7	1.8
100°-110°	111.5	1.3
110°-120°	86.1	1.0
120°-130°	74.0	0.9
130°-140°	52.1	0.6
140°-150°	28.1	0.3
150°-160°	10.4	0.1
160°-170°	1.9	0.0
170°-180°	0.0	0.0
0°-30°	2012.9	24.2
0°-40°	3276.3	39.5
0°-60°	5885.6	70.9
0°-90°	7787.2	93.8
90°-120°	350.3	4.2
90°-150°	504.5	6.1
90°-180°	517.0	6.2
0°-180°	8304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3086	3086	3086	3086	3086	
5°	2941	2938	2931	2958	2954	273
15°	2528	2510	2463	2458	2475	713
25°	2225	2240	2241	2266	2252	1024
35°	1928	1985	2043	2062	2029	1205
45°	1619	1707	1786	1784	1773	1245
55°	1258	1376	1466	1473	1448	1123
65°	867	970	1070	1048	1019	858
75°	447	545	642	645	594	475
85°	76	165	257	314	392	100
90°	2	78	164	238	326	4
95°	1	66	147	214	267	0
105°	1	55	121	162	158	1
115°	1	46	103	128	132	1
125°	1	38	94	130	141	1
135°	1	26	73	109	124	1
145°	2	13	46	74	87	1
155°	2	5	20	38	44	1
165°	2	2	4	9	12	1
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°	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8
2.5°	3053.2	3056.3	3060.6	3054.4	3058.7	3055.7	3060.0	3058.1	3054.4	3053.2	3046.4
5°	2940.6	2949.9	2945.6	2941.9	2944.3	2938.2	2947.4	2941.9	2936.9	2929.6	2930.8
7.5°	2823.2	2818.8	2822.5	2811.5	2809.6	2812.7	2809.0	2807.8	2810.2	2794.9	2788.1
10°	2705.1	2710.6	2700.1	2698.9	2695.2	2696.5	2690.3	2682.3	2668.2	2650.9	2638.0
12.5°	2615.9	2615.3	2615.3	2606.0	2594.4	2596.8	2586.4	2568.5	2557.4	2548.2	2543.3
15°	2527.9	2528.5	2520.5	2511.9	2510.7	2510.1	2507.6	2492.9	2479.9	2472.6	2462.7
17.5°	2448.0	2449.2	2448.0	2443.7	2441.8	2433.2	2434.4	2420.9	2403.1	2401.2	2403.7
20°	2362.5	2371.7	2377.2	2361.2	2361.9	2356.3	2359.4	2353.9	2346.5	2350.2	2352.0
22.5°	2292.4	2301.0	2299.1	2294.2	2297.3	2298.5	2299.1	2301.0	2302.2	2298.5	2299.7
25°	2224.7	2223.5	2224.7	2235.8	2235.8	2240.1	2240.1	2238.2	2237.6	2233.9	2241.3
27.5°	2144.7	2153.3	2161.3	2166.9	2166.9	2171.2	2168.1	2184.1	2190.3	2193.3	2201.9
30°	2072.2	2085.1	2088.8	2093.7	2111.5	2118.3	2123.2	2137.4	2140.4	2142.3	2149.0
32.5°	2005.7	2009.4	2013.7	2038.3	2054.9	2059.9	2064.8	2070.9	2080.8	2082.0	2090.6
35°	1927.6	1929.5	1949.1	1966.4	1978.1	1985.4	1995.9	2013.7	2027.3	2037.7	2043.3
37.5°	1847.0	1862.4	1877.2	1885.8	1911.0	1927.0	1941.8	1962.1	1966.4	1973.7	1981.1
40°	1766.5	1782.5	1789.2	1819.4	1847.7	1860.0	1870.4	1884.6	1891.9	1907.3	1915.3
42.5°	1700.7	1703.7	1715.4	1744.9	1768.9	1778.2	1792.9	1819.4	1839.0	1851.4	1849.5
45°	1618.9	1618.2	1643.5	1658.2	1689.0	1707.4	1725.9	1747.4	1766.5	1783.1	1785.5
47.5°	1529.1	1535.8	1554.3	1575.8	1618.2	1637.9	1649.6	1665.0	1687.1	1698.8	1708.7
50°	1434.3	1454.6	1462.6	1500.8	1532.7	1546.9	1563.5	1589.9	1613.3	1631.8	1639.8
52.5°	1347.0	1357.5	1382.7	1409.7	1441.1	1465.1	1478.0	1513.1	1535.2	1548.7	1566.6
55°	1258.4	1263.3	1292.9	1318.7	1353.1	1375.9	1391.3	1423.3	1438.0	1459.6	1465.7
57.5°	1163.7	1172.9	1195.7	1227.1	1259.7	1275.6	1286.7	1323.6	1345.8	1368.5	1371.6
60°	1067.1	1079.4	1098.5	1134.2	1156.9	1173.5	1190.2	1227.7	1250.4	1269.5	1280.6
62.5°	965.7	975.5	999.5	1029.0	1053.6	1071.4	1092.4	1123.7	1145.9	1167.4	1177.2
65°	867.2	877.7	899.2	923.8	954.0	970.0	988.4	1014.2	1041.9	1057.3	1069.6
67.5°	768.8	773.8	794.1	819.9	851.9	862.9	881.4	906.6	942.3	954.0	965.7
70°	665.5	668.6	685.2	715.9	739.9	757.8	768.8	803.9	828.5	845.7	857.4
72.5°	559.7	567.1	577.5	607.1	633.5	648.3	667.3	698.1	721.5	739.3	744.2
75°	447.2	455.8	473.6	501.9	527.7	544.9	561.6	583.7	610.1	628.6	641.5
77.5°	341.4	354.3	367.2	391.2	423.8	439.2	452.7	482.2	507.4	525.3	532.6
80°	242.3	252.2	268.8	291.5	323.5	337.1	351.2	378.3	400.4	417.0	433.6
82.5°	158.1	159.3	181.4	202.4	230.6	243.6	257.1	284.2	306.9	322.3	337.7
85°	76.3	84.9	102.1	124.2	151.3	164.8	177.8	200.5	219.0	236.8	257.1
87.5°	24.0	29.5	48.6	70.1	92.9	105.2	116.2	137.8	156.2	174.7	194.4
90°	1.8	7.4	22.8	43.7	66.4	78.1	88.0	107.0	126.7	145.8	163.6
92.5°	0.6	5.5	19.7	39.4	60.3	70.1	80.0	99.0	117.5	136.5	155.6
95°	0.6	4.9	17.8	36.3	56.6	65.8	75.0	94.1	113.2	131.0	147.0
97.5°	0.6	4.9	17.2	34.4	52.9	62.1	71.3	90.4	108.3	125.5	140.2
100°	0.6	4.3	16.0	32.0	50.4	59.0	68.3	86.1	103.3	119.3	133.5
102.5°	0.6	3.7	14.8	30.8	48.0	56.6	65.8	82.4	98.4	113.2	127.3
105°	0.6	3.7	14.1	29.5	46.1	54.7	62.7	79.3	94.1	108.3	121.2
107.5°	0.6	3.1	13.5	27.7	44.3	52.3	60.3	76.3	90.4	103.9	115.6
110°	0.6	3.1	12.3	26.4	42.4	50.4	58.4	73.2	87.3	99.6	110.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.6	2.5	11.7	25.2	40.6	48.6	56.0	70.7	84.3	96.0	106.4
115°	0.6	2.5	11.1	24.0	38.7	46.1	54.1	68.3	81.2	92.9	102.7
117.5°	1.2	1.8	9.8	22.8	36.9	44.3	51.7	65.8	78.7	90.4	100.9
120°	1.2	1.8	9.2	21.5	35.1	42.4	49.2	63.4	76.3	88.0	99.0
122.5°	1.2	1.8	8.6	19.7	33.2	40.0	47.4	60.9	73.8	86.1	96.6
125°	1.2	1.8	7.4	18.5	31.4	37.5	44.3	57.8	70.7	82.4	93.5
127.5°	1.2	1.2	6.8	16.6	28.9	35.1	41.8	54.7	67.0	78.1	89.2
130°	1.2	1.2	5.5	14.8	26.4	32.6	38.7	51.7	62.7	73.8	84.3
132.5°	1.2	1.2	4.9	12.9	23.4	28.9	35.1	47.4	58.4	68.9	78.7
135°	1.2	1.2	3.7	11.1	20.9	25.8	31.4	42.4	52.9	63.4	72.6
137.5°	1.8	1.2	3.1	9.2	17.8	22.8	27.1	37.5	46.7	57.2	67.0
140°	1.8	1.8	2.5	7.4	14.8	19.1	22.8	32.0	41.2	50.4	59.7
142.5°	1.8	1.8	2.5	6.2	12.3	16.0	19.7	27.1	35.7	44.3	52.9
145°	1.8	1.8	1.8	4.9	9.8	12.9	16.0	23.4	30.8	38.1	45.5
147.5°	1.8	1.8	1.8	3.7	8.0	10.5	12.9	19.1	25.8	32.6	38.7
150°	2.5	1.8	1.8	3.1	6.2	8.0	10.5	15.4	20.9	26.4	32.0
152.5°	2.5	1.8	1.8	2.5	4.9	6.2	8.0	12.3	16.6	20.9	25.8
155°	2.5	1.8	1.8	2.5	3.7	4.9	6.2	9.2	12.9	16.6	20.3
157.5°	2.5	2.5	1.8	1.8	3.1	3.7	4.3	6.8	9.2	12.3	15.4
160°	2.5	2.5	1.8	1.8	2.5	2.5	3.1	4.9	6.8	8.6	11.1
162.5°	2.5	2.5	1.8	1.8	1.8	1.8	2.5	3.1	4.3	5.5	7.4
165°	2.5	2.5	2.5	1.8	1.8	1.8	1.8	1.8	2.5	3.7	4.3
167.5°	2.5	2.5	2.5	1.8	1.8	1.2	1.2	1.2	1.8	1.8	2.5
170°	3.1	2.5	2.5	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2
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°	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8	3085.8
2.5°	3048.9	3051.3	3061.8	3064.3	3068.0	3066.7	3068.6	3068.6	3070.4	3071.0
5°	2937.6	2951.1	2958.5	2953.5	2958.5	2956.0	2956.6	2953.5	2952.3	2954.2
7.5°	2771.5	2770.9	2772.1	2770.9	2771.5	2771.5	2776.4	2778.3	2772.1	2771.5
10°	2628.8	2631.3	2636.8	2638.6	2636.2	2633.1	2639.9	2641.7	2647.9	2652.2
12.5°	2535.9	2525.5	2540.8	2551.3	2552.5	2556.2	2556.2	2559.3	2553.1	2542.1
15°	2463.3	2470.7	2470.1	2458.4	2457.8	2458.4	2467.0	2462.1	2467.6	2475.0
17.5°	2400.0	2396.9	2404.9	2413.5	2416.6	2420.9	2418.4	2416.0	2416.0	2414.8
20°	2342.2	2358.8	2367.4	2363.7	2366.2	2371.7	2377.2	2378.5	2376.0	2372.9
22.5°	2303.4	2310.8	2319.4	2337.9	2331.7	2332.3	2320.6	2316.3	2312.0	2309.0
25°	2246.2	2259.8	2278.2	2270.2	2266.5	2265.9	2259.1	2259.1	2253.6	2252.4
27.5°	2205.0	2222.2	2208.1	2216.1	2216.1	2220.4	2217.9	2214.9	2212.4	2212.4
30°	2163.2	2152.7	2161.3	2168.7	2166.3	2163.8	2164.4	2155.8	2158.3	2155.2
32.5°	2096.8	2098.0	2110.3	2114.6	2115.8	2117.1	2112.1	2109.7	2107.2	2100.5
35°	2046.3	2058.6	2052.5	2061.7	2062.3	2046.3	2046.9	2040.2	2034.6	2029.1
37.5°	1988.5	1984.8	2002.0	1996.5	1987.3	1986.0	1980.5	1986.0	1984.2	1985.4
40°	1926.4	1936.2	1929.5	1929.5	1927.0	1932.5	1931.9	1927.6	1925.2	1922.1
42.5°	1866.7	1867.3	1860.0	1864.3	1863.7	1862.4	1856.3	1852.0	1853.8	1844.0
45°	1804.6	1786.8	1800.3	1788.6	1783.7	1789.2	1780.6	1778.2	1770.8	1773.2
47.5°	1716.7	1714.2	1715.4	1706.2	1704.3	1700.0	1687.7	1681.6	1679.1	1679.7
50°	1635.5	1640.4	1637.3	1633.6	1628.7	1621.9	1620.1	1622.5	1628.1	1620.7
52.5°	1564.1	1567.8	1565.3	1554.9	1550.6	1555.5	1559.8	1545.7	1540.1	1538.9
55°	1471.9	1485.4	1473.7	1478.6	1473.1	1473.1	1455.9	1454.6	1452.8	1448.5
57.5°	1382.1	1383.9	1387.6	1394.4	1377.7	1375.9	1374.1	1362.4	1352.5	1350.7
60°	1291.0	1286.1	1291.0	1281.2	1278.7	1277.5	1258.4	1243.7	1233.8	1236.9
62.5°	1185.2	1191.4	1182.8	1170.5	1166.8	1159.4	1138.5	1142.2	1138.5	1134.8
65°	1070.2	1077.0	1066.5	1053.0	1047.5	1042.5	1038.8	1025.3	1025.9	1019.2
67.5°	966.9	961.3	961.3	946.0	944.1	944.1	928.8	918.9	918.3	912.1
70°	858.6	861.7	853.7	848.2	851.3	840.8	826.0	820.5	807.0	805.7
72.5°	751.6	760.8	751.6	751.0	744.8	741.8	725.8	717.2	706.7	698.7
75°	645.2	653.8	652.0	648.3	645.2	639.1	627.4	610.1	599.7	594.2
77.5°	544.3	548.0	556.0	551.1	552.9	546.8	537.6	524.0	513.6	511.7
80°	444.1	452.7	460.1	461.3	461.3	460.7	452.7	448.4	449.6	447.2
82.5°	352.4	362.3	374.0	378.9	382.6	383.8	389.3	395.5	405.9	412.1
85°	271.2	286.0	297.7	307.5	313.7	320.4	334.0	351.2	377.0	392.4
87.5°	211.0	227.0	241.7	258.9	269.4	276.2	292.2	317.4	346.3	364.7
90°	180.8	196.8	215.3	231.3	238.0	247.3	268.2	288.5	313.1	326.0
92.5°	170.4	187.6	202.4	217.1	225.7	233.1	249.7	263.2	280.5	289.7
95°	162.4	176.5	193.1	206.7	214.0	220.8	231.3	244.2	258.3	266.9
97.5°	155.0	169.8	182.7	195.0	201.1	205.4	218.3	230.6	241.1	243.6
100°	147.6	161.1	171.6	182.1	188.8	193.7	204.2	211.6	214.0	214.7
102.5°	140.2	151.9	162.4	171.0	175.9	180.2	185.8	190.1	190.7	188.8
105°	132.2	142.7	151.9	159.9	161.8	164.2	166.1	163.0	160.5	158.1
107.5°	125.5	134.7	142.1	146.4	147.0	147.6	146.4	143.9	141.5	140.9
110°	119.9	127.9	132.9	134.7	135.3	135.3	133.5	131.6	130.4	129.2





TEST NUMBER: P241515

CATALOG NUMBER: FVS8M-4-LD4-40-3LO-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	115.0	121.8	126.1	128.5	129.2	129.8	129.8	129.2	128.5	127.9
115°	111.3	118.7	123.6	126.7	128.5	129.8	131.6	132.2	132.2	132.2
117.5°	109.5	117.5	123.6	128.5	131.0	132.9	135.3	136.5	136.5	135.9
120°	108.3	116.9	123.6	130.4	132.9	134.7	137.8	139.6	139.6	139.0
122.5°	106.4	115.6	123.0	129.8	132.9	135.3	139.0	140.9	140.9	140.9
125°	103.3	113.2	120.6	127.9	130.4	133.5	137.2	139.6	140.2	140.9
127.5°	99.0	108.9	116.9	124.2	127.3	129.8	134.1	137.2	138.4	139.0
130°	94.1	103.3	111.3	119.3	122.4	125.5	129.8	132.9	134.7	135.3
132.5°	88.0	97.2	105.2	112.6	116.2	118.7	124.2	127.3	129.8	129.8
135°	81.8	90.4	97.8	105.2	108.9	111.9	117.5	121.2	123.6	124.2
137.5°	75.0	83.0	90.4	97.8	100.9	103.9	108.9	113.2	116.2	116.9
140°	68.3	75.7	83.0	89.8	92.9	95.3	100.3	104.6	107.0	107.6
142.5°	60.9	68.3	75.0	81.2	83.6	86.1	91.0	94.7	96.0	97.2
145°	53.5	60.3	66.4	72.0	74.4	76.9	80.6	84.3	85.5	86.7
147.5°	45.5	52.3	57.8	62.7	65.2	67.0	70.7	73.2	75.7	75.7
150°	37.5	43.7	49.2	54.1	56.0	57.8	60.3	62.7	64.0	65.2
152.5°	30.1	35.1	40.6	45.5	46.7	48.0	51.1	52.3	54.1	54.7
155°	24.0	27.7	32.0	36.3	38.1	39.4	41.8	43.1	44.3	44.3
157.5°	18.5	21.5	24.0	27.7	29.5	31.4	33.2	34.4	35.1	35.1
160°	12.9	15.4	17.8	20.3	21.5	22.8	24.6	25.2	26.4	26.4
162.5°	8.6	10.5	12.3	14.1	14.8	15.4	17.2	18.5	19.1	19.1
165°	5.5	6.2	7.4	8.6	9.2	9.8	11.1	11.7	12.3	12.3
167.5°	2.5	3.1	3.7	4.3	4.3	4.9	5.5	6.8	6.8	6.8
170°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	2.5	2.5	2.5
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)