

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: P241516

Luminaire Tested: **FVS8M-4-LD4-50-3LO-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241516  
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-LD4-50-3LO-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
4FT LENGTH, 3-MODULE LED WITH PA187 LENS  
Light Source: (252) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

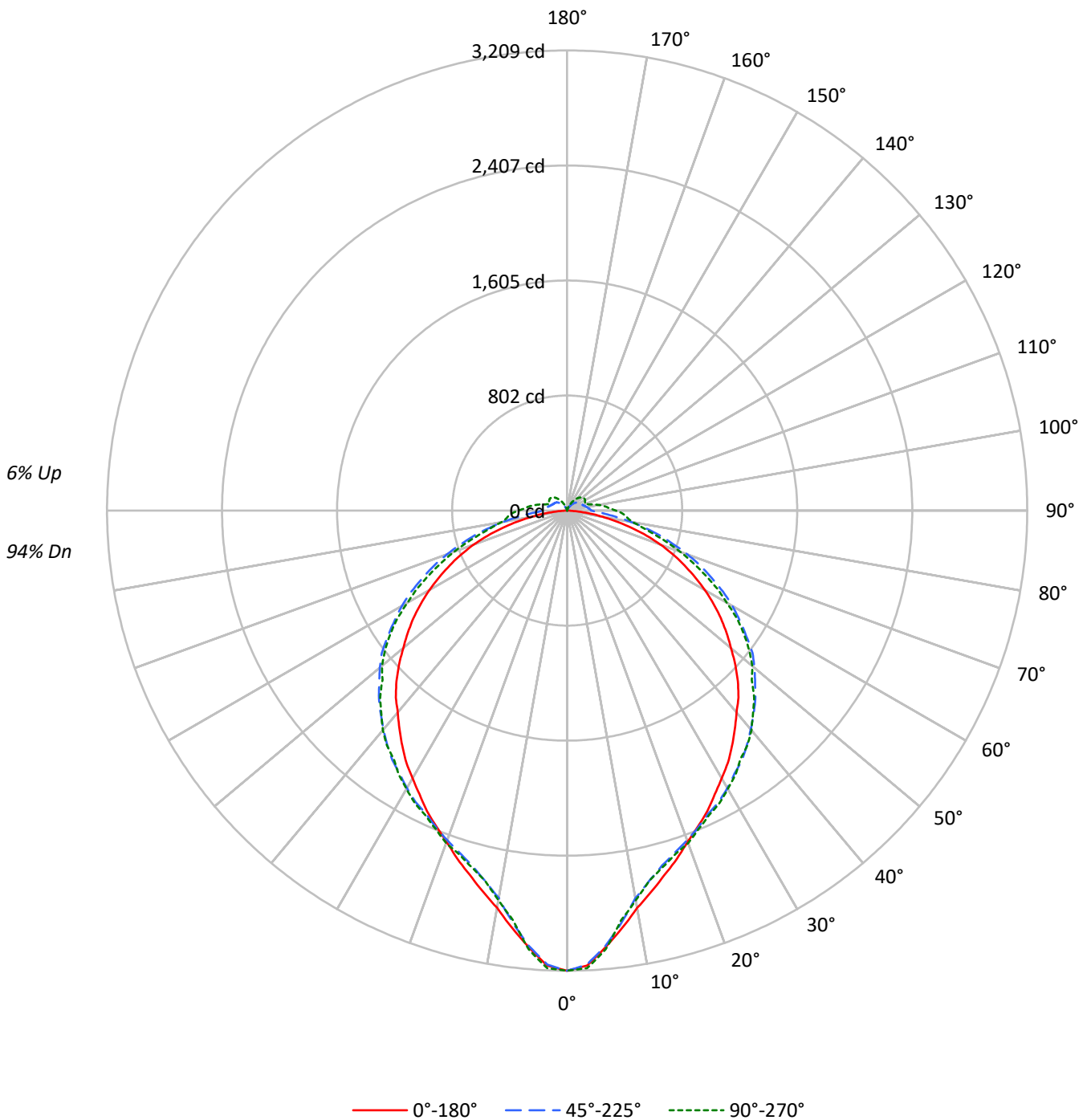
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8636.0 lumens  
Efficiency: N/A  
Efficacy: 257.8 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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CATALOG NUMBER: FVS8M-4-LD4-50-3LO-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	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°	14343	14343	14343
5°	13673	13454	13516
10°	12680	12053	12038
15°	12038	11284	11230
20°	11521	10891	10846
25°	11205	10571	10451
30°	10876	10408	10233
35°	10646	10249	9941
40°	10378	10043	9804
45°	10241	9885	9509
50°	9910	9693	9234
55°	9658	9370	8876
60°	9291	8988	8266
65°	8800	8393	7552
70°	8166	7693	6758
75°	7007	6781	5790
80°	5309	5628	5248
85°	2810	4365	5844



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.4	3.3
10°-20°	731.3	8.5
20°-30°	1079.7	12.5
30°-40°	1313.9	15.2
40°-50°	1398.5	16.2
50°-60°	1315.1	15.2
60°-70°	1040.3	12.0
70°-80°	649.2	7.5
80°-90°	288.3	3.3
90°-100°	158.8	1.8
100°-110°	116.0	1.3
110°-120°	89.6	1.0
120°-130°	76.9	0.9
130°-140°	54.2	0.6
140°-150°	29.2	0.3
150°-160°	10.8	0.1
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	2093.4	24.2
0°-40°	3407.3	39.5
0°-60°	6120.9	70.9
0°-90°	8098.6	93.8
90°-120°	364.4	4.2
90°-150°	524.6	6.1
90°-180°	537.0	6.2
0°-180°	8636.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3209	3209	3209	3209	3209	
5°	3058	3056	3048	3077	3072	284
15°	2629	2610	2561	2556	2574	741
25°	2314	2330	2331	2357	2342	1064
35°	2005	2065	2125	2145	2110	1254
45°	1684	1776	1857	1855	1844	1295
55°	1309	1431	1524	1532	1506	1168
65°	902	1009	1112	1089	1060	892
75°	465	567	667	671	618	494
85°	79	171	267	326	408	104
90°	2	81	170	248	339	4
95°	1	68	153	223	278	0
105°	1	57	126	168	164	1
115°	1	48	107	134	138	1
125°	1	39	97	136	146	1
135°	1	27	76	113	129	1
145°	2	13	47	77	90	1
155°	3	5	21	40	46	1
165°	3	2	4	10	13	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241516

CATALOG NUMBER: FVS8M-4-LD4-50-3LO-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2
2.5°	3175.3	3178.5	3182.9	3176.5	3181.0	3177.8	3182.3	3180.4	3176.5	3175.3	3168.2
5°	3058.2	3067.8	3063.3	3059.5	3062.0	3055.6	3065.2	3059.5	3054.4	3046.7	3048.0
7.5°	2936.0	2931.5	2935.4	2923.9	2922.0	2925.2	2921.3	2920.0	2922.6	2906.6	2899.6
10°	2813.2	2819.0	2808.1	2806.8	2803.0	2804.3	2797.9	2789.5	2774.8	2756.9	2743.5
12.5°	2720.5	2719.8	2719.8	2710.2	2698.1	2700.6	2689.8	2671.2	2659.7	2650.1	2645.0
15°	2629.0	2629.6	2621.3	2612.4	2611.1	2610.4	2607.9	2592.5	2579.1	2571.4	2561.2
17.5°	2545.8	2547.1	2545.8	2541.4	2539.4	2530.5	2531.8	2517.7	2499.1	2497.2	2499.8
20°	2456.9	2466.5	2472.3	2455.6	2456.3	2450.5	2453.7	2448.0	2440.3	2444.1	2446.0
22.5°	2384.0	2393.0	2391.0	2385.9	2389.1	2390.4	2391.0	2393.0	2394.2	2390.4	2391.7
25°	2313.6	2312.4	2313.6	2325.2	2325.2	2329.6	2329.6	2327.7	2327.1	2323.2	2330.9
27.5°	2230.5	2239.4	2247.8	2253.5	2253.5	2258.0	2254.8	2271.4	2277.8	2281.0	2290.0
30°	2155.0	2168.4	2172.3	2177.4	2195.9	2203.0	2208.1	2222.8	2226.0	2227.9	2235.0
32.5°	2085.9	2089.8	2094.2	2119.8	2137.1	2142.2	2147.3	2153.7	2164.0	2165.2	2174.2
35°	2004.7	2006.6	2027.1	2045.0	2057.1	2064.8	2075.7	2094.2	2108.3	2119.2	2124.9
37.5°	1920.9	1936.9	1952.2	1961.2	1987.4	2004.0	2019.4	2040.5	2045.0	2052.7	2060.3
40°	1837.1	1853.7	1860.8	1892.1	1921.5	1934.3	1945.2	1959.9	1967.6	1983.6	1991.9
42.5°	1768.7	1771.9	1784.0	1814.7	1839.7	1849.2	1864.6	1892.1	1912.6	1925.4	1923.4
45°	1683.6	1682.9	1709.2	1724.5	1756.5	1775.7	1794.9	1817.3	1837.1	1854.4	1856.9
47.5°	1590.2	1597.2	1616.4	1638.8	1682.9	1703.4	1715.6	1731.6	1754.6	1766.7	1777.0
50°	1491.7	1512.8	1521.1	1560.8	1594.0	1608.7	1626.0	1653.5	1677.8	1697.0	1705.3
52.5°	1400.8	1411.7	1437.9	1466.1	1498.7	1523.7	1537.1	1573.6	1596.6	1610.7	1629.2
55°	1308.7	1313.9	1344.6	1371.4	1407.2	1430.9	1446.9	1480.2	1495.5	1517.9	1524.3
57.5°	1210.2	1219.8	1243.5	1276.1	1310.0	1326.6	1338.2	1376.5	1399.6	1423.2	1426.4
60°	1109.8	1122.6	1142.4	1179.5	1203.2	1220.5	1237.7	1276.8	1300.4	1320.3	1331.8
62.5°	1004.3	1014.5	1039.4	1070.1	1095.7	1114.3	1136.0	1168.7	1191.7	1214.1	1224.3
65°	901.9	912.8	935.2	960.8	992.1	1008.7	1027.9	1054.8	1083.6	1099.6	1112.4
67.5°	799.6	804.7	825.8	852.7	885.9	897.4	916.6	942.9	980.0	992.1	1004.3
70°	692.1	695.3	712.6	744.6	769.5	788.1	799.6	836.0	861.6	879.5	891.7
72.5°	582.1	589.8	600.6	631.3	658.8	674.2	694.0	726.0	750.3	768.9	774.0
75°	465.0	474.0	492.5	522.0	548.8	566.7	584.0	607.0	634.5	653.7	667.2
77.5°	355.0	368.4	381.9	406.8	440.7	456.7	470.8	501.5	527.7	546.3	553.9
80°	252.0	262.3	279.5	303.2	336.5	350.5	365.2	393.4	416.4	433.7	451.0
82.5°	164.4	165.7	188.7	210.4	239.9	253.3	267.4	295.5	319.2	335.2	351.2
85°	79.3	88.3	106.2	129.2	157.4	171.4	184.9	208.5	227.7	246.3	267.4
87.5°	24.9	30.7	50.5	72.9	96.6	109.4	120.9	143.3	162.5	181.7	202.1
90°	1.9	7.7	23.7	45.4	69.1	81.2	91.5	111.3	131.8	151.6	170.1
92.5°	0.6	5.8	20.5	40.9	62.7	72.9	83.2	103.0	122.2	142.0	161.8
95°	0.6	5.1	18.6	37.7	58.8	68.4	78.0	97.9	117.7	136.2	152.9
97.5°	0.6	5.1	17.9	35.8	55.0	64.6	74.2	94.0	112.6	130.5	145.8
100°	0.6	4.5	16.6	33.3	52.5	61.4	71.0	89.6	107.5	124.1	138.8
102.5°	0.6	3.8	15.4	32.0	49.9	58.8	68.4	85.7	102.3	117.7	132.4
105°	0.6	3.8	14.7	30.7	48.0	56.9	65.2	82.5	97.9	112.6	126.0
107.5°	0.6	3.2	14.1	28.8	46.1	54.4	62.7	79.3	94.0	108.1	120.3
110°	0.6	3.2	12.8	27.5	44.1	52.5	60.8	76.1	90.8	103.6	115.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.6	2.6	12.2	26.2	42.2	50.5	58.2	73.6	87.6	99.8	110.7
115°	0.6	2.6	11.5	24.9	40.3	48.0	56.3	71.0	84.4	96.6	106.8
117.5°	1.3	1.9	10.2	23.7	38.4	46.1	53.7	68.4	81.9	94.0	104.9
120°	1.3	1.9	9.6	22.4	36.5	44.1	51.2	65.9	79.3	91.5	103.0
122.5°	1.3	1.9	9.0	20.5	34.5	41.6	49.3	63.3	76.8	89.6	100.4
125°	1.3	1.9	7.7	19.2	32.6	39.0	46.1	60.1	73.6	85.7	97.2
127.5°	1.3	1.3	7.0	17.3	30.1	36.5	43.5	56.9	69.7	81.2	92.8
130°	1.3	1.3	5.8	15.4	27.5	33.9	40.3	53.7	65.2	76.8	87.6
132.5°	1.3	1.3	5.1	13.4	24.3	30.1	36.5	49.3	60.8	71.6	81.9
135°	1.3	1.3	3.8	11.5	21.7	26.9	32.6	44.1	55.0	65.9	75.5
137.5°	1.9	1.3	3.2	9.6	18.6	23.7	28.1	39.0	48.6	59.5	69.7
140°	1.9	1.9	2.6	7.7	15.4	19.8	23.7	33.3	42.9	52.5	62.0
142.5°	1.9	1.9	2.6	6.4	12.8	16.6	20.5	28.1	37.1	46.1	55.0
145°	1.9	1.9	1.9	5.1	10.2	13.4	16.6	24.3	32.0	39.7	47.3
147.5°	1.9	1.9	1.9	3.8	8.3	10.9	13.4	19.8	26.9	33.9	40.3
150°	2.6	1.9	1.9	3.2	6.4	8.3	10.9	16.0	21.7	27.5	33.3
152.5°	2.6	1.9	1.9	2.6	5.1	6.4	8.3	12.8	17.3	21.7	26.9
155°	2.6	1.9	1.9	2.6	3.8	5.1	6.4	9.6	13.4	17.3	21.1
157.5°	2.6	2.6	1.9	1.9	3.2	3.8	4.5	7.0	9.6	12.8	16.0
160°	2.6	2.6	1.9	1.9	2.6	2.6	3.2	5.1	7.0	9.0	11.5
162.5°	2.6	2.6	1.9	1.9	1.9	1.9	2.6	3.2	4.5	5.8	7.7
165°	2.6	2.6	2.6	1.9	1.9	1.9	1.9	1.9	2.6	3.8	4.5
167.5°	2.6	2.6	2.6	1.9	1.9	1.3	1.3	1.3	1.9	1.9	2.6
170°	3.2	2.6	2.6	1.9	1.9	1.3	1.3	1.3	1.3	1.3	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°	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2	3209.2
2.5°	3170.8	3173.3	3184.2	3186.8	3190.6	3189.3	3191.3	3191.3	3193.2	3193.8
5°	3055.0	3069.1	3076.8	3071.6	3076.8	3074.2	3074.8	3071.6	3070.4	3072.3
7.5°	2882.3	2881.7	2882.9	2881.7	2882.3	2882.3	2887.4	2889.3	2882.9	2882.3
10°	2733.9	2736.5	2742.2	2744.1	2741.6	2738.4	2745.4	2747.3	2753.7	2758.2
12.5°	2637.3	2626.4	2642.4	2653.3	2654.6	2658.4	2658.4	2661.6	2655.2	2643.7
15°	2561.8	2569.5	2568.9	2556.7	2556.1	2556.7	2565.7	2560.5	2566.3	2574.0
17.5°	2495.9	2492.7	2501.1	2510.0	2513.2	2517.7	2515.1	2512.6	2512.6	2511.3
20°	2435.8	2453.1	2462.0	2458.2	2460.8	2466.5	2472.3	2473.6	2471.0	2467.8
22.5°	2395.5	2403.2	2412.1	2431.3	2424.9	2425.6	2413.4	2408.9	2404.5	2401.3
25°	2336.0	2350.1	2369.3	2361.0	2357.1	2356.5	2349.5	2349.5	2343.7	2342.4
27.5°	2293.2	2311.1	2296.4	2304.7	2304.7	2309.2	2306.6	2303.4	2300.8	2300.8
30°	2249.7	2238.8	2247.8	2255.4	2252.9	2250.3	2251.0	2242.0	2244.6	2241.4
32.5°	2180.6	2181.9	2194.7	2199.1	2200.4	2201.7	2196.6	2194.0	2191.5	2184.4
35°	2128.1	2140.9	2134.5	2144.1	2144.8	2128.1	2128.8	2121.7	2116.0	2110.2
37.5°	2068.0	2064.2	2082.1	2076.3	2066.7	2065.5	2059.7	2065.5	2063.5	2064.8
40°	2003.4	2013.6	2006.6	2006.6	2004.0	2009.8	2009.2	2004.7	2002.1	1998.9
42.5°	1941.4	1942.0	1934.3	1938.8	1938.2	1936.9	1930.5	1926.0	1927.9	1917.7
45°	1876.8	1858.2	1872.3	1860.1	1855.0	1860.8	1851.8	1849.2	1841.6	1844.1
47.5°	1785.3	1782.7	1784.0	1774.4	1772.5	1768.0	1755.2	1748.8	1746.3	1746.9
50°	1700.8	1706.0	1702.8	1698.9	1693.8	1686.8	1684.9	1687.4	1693.2	1685.5
52.5°	1626.6	1630.5	1627.9	1617.1	1612.6	1617.7	1622.2	1607.5	1601.7	1600.4
55°	1530.7	1544.8	1532.6	1537.7	1532.0	1532.0	1514.1	1512.8	1510.9	1506.4
57.5°	1437.3	1439.2	1443.1	1450.1	1432.8	1430.9	1429.0	1416.8	1406.6	1404.7
60°	1342.6	1337.5	1342.6	1332.4	1329.8	1328.6	1308.7	1293.4	1283.2	1286.4
62.5°	1232.6	1239.0	1230.1	1217.3	1213.4	1205.8	1184.0	1187.8	1184.0	1180.2
65°	1113.0	1120.0	1109.2	1095.1	1089.3	1084.2	1080.4	1066.3	1066.9	1059.9
67.5°	1005.5	999.8	999.8	983.8	981.9	981.9	965.9	955.6	955.0	948.6
70°	893.0	896.2	887.8	882.1	885.3	874.4	859.1	853.3	839.2	838.0
72.5°	781.7	791.3	781.7	781.0	774.6	771.4	754.8	745.8	735.0	726.7
75°	671.0	680.0	678.0	674.2	671.0	664.6	652.5	634.5	623.7	617.9
77.5°	566.1	569.9	578.3	573.1	575.1	568.7	559.1	545.0	534.1	532.2
80°	461.8	470.8	478.5	479.7	479.7	479.1	470.8	466.3	467.6	465.0
82.5°	366.5	376.8	388.9	394.0	397.9	399.1	404.9	411.3	422.2	428.6
85°	282.1	297.4	309.6	319.8	326.2	333.3	347.3	365.2	392.1	408.1
87.5°	219.4	236.0	251.4	269.3	280.2	287.2	303.8	330.1	360.1	379.3
90°	188.1	204.7	223.9	240.5	247.5	257.1	278.9	300.0	325.6	339.0
92.5°	177.2	195.1	210.4	225.8	234.8	242.4	259.7	273.8	291.7	301.3
95°	168.9	183.6	200.9	214.9	222.6	229.6	240.5	253.9	268.7	277.6
97.5°	161.2	176.5	190.0	202.8	209.2	213.6	227.1	239.9	250.7	253.3
100°	153.5	167.6	178.5	189.3	196.4	201.5	212.4	220.0	222.6	223.2
102.5°	145.8	158.0	168.9	177.8	182.9	187.4	193.2	197.7	198.3	196.4
105°	137.5	148.4	158.0	166.3	168.2	170.8	172.7	169.5	167.0	164.4
107.5°	130.5	140.1	147.8	152.2	152.9	153.5	152.2	149.7	147.1	146.5
110°	124.7	133.0	138.2	140.1	140.7	140.7	138.8	136.9	135.6	134.3





TEST NUMBER: P241516

CATALOG NUMBER: FVS8M-4-LD4-50-3LO-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	119.6	126.7	131.1	133.7	134.3	135.0	135.0	134.3	133.7	133.0
115°	115.8	123.5	128.6	131.8	133.7	135.0	136.9	137.5	137.5	137.5
117.5°	113.9	122.2	128.6	133.7	136.2	138.2	140.7	142.0	142.0	141.4
120°	112.6	121.5	128.6	135.6	138.2	140.1	143.3	145.2	145.2	144.6
122.5°	110.7	120.3	127.9	135.0	138.2	140.7	144.6	146.5	146.5	146.5
125°	107.5	117.7	125.4	133.0	135.6	138.8	142.6	145.2	145.8	146.5
127.5°	103.0	113.2	121.5	129.2	132.4	135.0	139.4	142.6	143.9	144.6
130°	97.9	107.5	115.8	124.1	127.3	130.5	135.0	138.2	140.1	140.7
132.5°	91.5	101.1	109.4	117.1	120.9	123.5	129.2	132.4	135.0	135.0
135°	85.1	94.0	101.7	109.4	113.2	116.4	122.2	126.0	128.6	129.2
137.5°	78.0	86.4	94.0	101.7	104.9	108.1	113.2	117.7	120.9	121.5
140°	71.0	78.7	86.4	93.4	96.6	99.1	104.3	108.7	111.3	111.9
142.5°	63.3	71.0	78.0	84.4	87.0	89.6	94.7	98.5	99.8	101.1
145°	55.7	62.7	69.1	74.8	77.4	80.0	83.8	87.6	88.9	90.2
147.5°	47.3	54.4	60.1	65.2	67.8	69.7	73.6	76.1	78.7	78.7
150°	39.0	45.4	51.2	56.3	58.2	60.1	62.7	65.2	66.5	67.8
152.5°	31.3	36.5	42.2	47.3	48.6	49.9	53.1	54.4	56.3	56.9
155°	24.9	28.8	33.3	37.7	39.7	40.9	43.5	44.8	46.1	46.1
157.5°	19.2	22.4	24.9	28.8	30.7	32.6	34.5	35.8	36.5	36.5
160°	13.4	16.0	18.6	21.1	22.4	23.7	25.6	26.2	27.5	27.5
162.5°	9.0	10.9	12.8	14.7	15.4	16.0	17.9	19.2	19.8	19.8
165°	5.8	6.4	7.7	9.0	9.6	10.2	11.5	12.2	12.8	12.8
167.5°	2.6	3.2	3.8	4.5	4.5	5.1	5.8	7.0	7.0	7.0
170°	1.3	1.3	1.3	1.3	1.9	1.9	1.9	2.6	2.6	2.6
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)