

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: P241517

Luminaire Tested: **FVS8M-4-LD4-30-3STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241517  
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-LD4-30-3STD-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
4FT LENGTH, 3-MODULE LED WITH PA187 LENS  
Light Source: (252) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

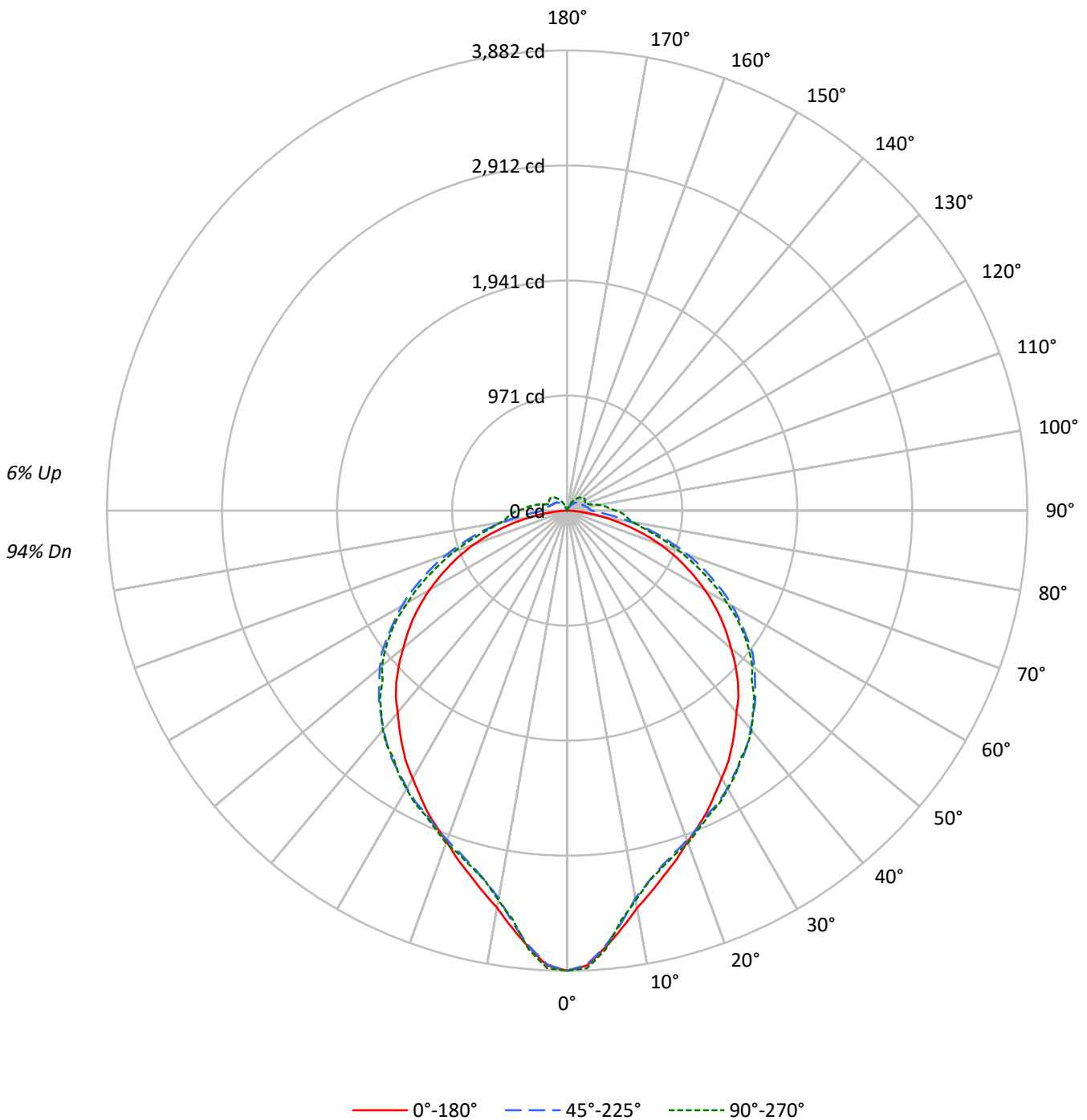
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10446.0 lumens  
Efficiency: N/A  
Efficacy: 106.1 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): 98.5  
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-LD4-30-3STD-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°	17349	17349	17349
5°	16539	16274	16349
10°	15337	14579	14561
15°	14561	13649	13584
20°	13936	13174	13119
25°	13554	12786	12641
30°	13155	12590	12377
35°	12877	12397	12025
40°	12552	12148	11860
45°	12387	11957	11501
50°	11987	11725	11170
55°	11682	11335	10736
60°	11238	10872	9998
65°	10644	10151	9135
70°	9879	9305	8174
75°	8476	8202	7004
80°	6421	6808	6348
85°	3399	5280	7068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.6	3.3
10°-20°	884.5	8.5
20°-30°	1306.0	12.5
30°-40°	1589.3	15.2
40°-50°	1691.6	16.2
50°-60°	1590.7	15.2
60°-70°	1258.3	12.0
70°-80°	785.2	7.5
80°-90°	348.7	3.3
90°-100°	192.1	1.8
100°-110°	140.3	1.3
110°-120°	108.4	1.0
120°-130°	93.0	0.9
130°-140°	65.5	0.6
140°-150°	35.3	0.3
150°-160°	13.0	0.1
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	2532.1	24.2
0°-40°	4121.4	39.5
0°-60°	7403.7	70.9
0°-90°	9795.9	93.8
90°-120°	440.7	4.2
90°-150°	634.6	6.1
90°-180°	650.0	6.2
0°-180°	10446.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3882	3882	3882	3882	3882	
5°	3699	3696	3687	3722	3716	344
15°	3180	3158	3098	3092	3114	896
25°	2799	2818	2819	2851	2833	1288
35°	2425	2498	2570	2594	2552	1516
45°	2036	2148	2246	2244	2231	1566
55°	1583	1731	1844	1853	1822	1412
65°	1091	1220	1346	1318	1282	1079
75°	562	686	807	812	747	597
85°	96	207	323	395	494	126
90°	2	98	206	299	410	5
95°	1	83	185	269	336	1
105°	1	69	152	204	199	1
115°	1	58	129	162	166	1
125°	2	47	118	164	177	1
135°	2	32	91	137	156	1
145°	2	16	57	94	109	2
155°	3	6	26	48	56	1
165°	3	2	5	12	16	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241517

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8
2.5°	3840.8	3844.6	3850.0	3842.3	3847.7	3843.8	3849.3	3846.9	3842.3	3840.8	3832.2
5°	3699.2	3710.8	3705.4	3700.7	3703.8	3696.1	3707.7	3700.7	3694.5	3685.2	3686.8
7.5°	3551.4	3546.0	3550.6	3536.7	3534.4	3538.2	3533.6	3532.0	3535.1	3515.8	3507.3
10°	3402.8	3409.8	3396.6	3395.1	3390.4	3392.0	3384.3	3374.2	3356.4	3334.7	3318.5
12.5°	3290.6	3289.9	3289.9	3278.3	3263.6	3266.7	3253.5	3231.1	3217.1	3205.5	3199.3
15°	3180.0	3180.8	3170.7	3159.9	3158.3	3157.6	3154.5	3135.9	3119.6	3110.4	3098.0
17.5°	3079.4	3081.0	3079.4	3074.0	3071.7	3060.8	3062.4	3045.4	3022.9	3020.6	3023.7
20°	2971.9	2983.5	2990.4	2970.3	2971.1	2964.1	2968.0	2961.0	2951.7	2956.4	2958.7
22.5°	2883.7	2894.5	2892.2	2886.0	2889.9	2891.4	2892.2	2894.5	2896.0	2891.4	2892.9
25°	2798.6	2797.0	2798.6	2812.5	2812.5	2817.9	2817.9	2815.6	2814.8	2810.2	2819.4
27.5°	2698.0	2708.8	2718.9	2725.8	2725.8	2731.2	2727.4	2747.5	2755.2	2759.1	2769.9
30°	2606.7	2622.9	2627.6	2633.7	2656.2	2664.7	2670.9	2688.7	2692.6	2694.9	2703.4
32.5°	2523.1	2527.7	2533.2	2564.1	2585.0	2591.2	2597.4	2605.1	2617.5	2619.0	2629.9
35°	2424.8	2427.2	2451.9	2473.6	2488.3	2497.6	2510.7	2533.2	2550.2	2563.3	2570.3
37.5°	2323.5	2342.8	2361.4	2372.2	2404.0	2424.1	2442.6	2468.2	2473.6	2482.9	2492.2
40°	2222.1	2242.2	2250.8	2288.7	2324.3	2339.7	2352.9	2370.7	2380.0	2399.3	2409.4
42.5°	2139.3	2143.2	2157.9	2195.0	2225.2	2236.8	2255.4	2288.7	2313.4	2328.9	2326.6
45°	2036.4	2035.7	2067.4	2086.0	2124.6	2147.9	2171.1	2198.1	2222.1	2243.0	2246.1
47.5°	1923.5	1932.0	1955.2	1982.3	2035.7	2060.4	2075.1	2094.5	2122.3	2137.0	2149.4
50°	1804.3	1829.9	1839.9	1887.9	1928.1	1945.9	1966.8	2000.1	2029.5	2052.7	2062.7
52.5°	1694.5	1707.6	1739.3	1773.4	1812.8	1843.0	1859.3	1903.4	1931.2	1948.2	1970.7
55°	1583.0	1589.2	1626.4	1658.9	1702.2	1730.8	1750.2	1790.4	1809.0	1836.0	1843.8
57.5°	1463.9	1475.5	1504.1	1543.6	1584.6	1604.7	1618.6	1665.0	1692.9	1721.5	1725.4
60°	1342.4	1357.9	1381.9	1426.7	1455.4	1476.3	1497.2	1544.3	1573.0	1597.0	1610.9
62.5°	1214.7	1227.1	1257.3	1294.4	1325.4	1347.8	1374.1	1413.6	1441.4	1468.5	1480.9
65°	1090.9	1104.1	1131.2	1162.1	1200.0	1220.2	1243.4	1275.9	1310.7	1330.0	1345.5
67.5°	967.2	973.3	998.9	1031.4	1071.6	1085.5	1108.7	1140.5	1185.3	1200.0	1214.7
70°	837.2	841.0	861.9	900.6	930.8	953.2	967.2	1011.3	1042.2	1063.9	1078.6
72.5°	704.1	713.4	726.5	763.7	796.9	815.5	839.5	878.2	907.6	930.0	936.2
75°	562.5	573.3	595.8	631.4	663.9	685.5	706.4	734.3	767.5	790.7	807.0
77.5°	429.4	445.7	461.9	492.1	533.1	552.4	569.5	606.6	638.3	660.8	670.0
80°	304.8	317.2	338.1	366.7	407.0	424.0	441.8	475.8	503.7	524.6	545.5
82.5°	198.8	200.4	228.2	254.6	290.1	306.4	323.4	357.5	386.1	405.4	424.8
85°	95.9	106.8	128.4	156.3	190.3	207.4	223.6	252.2	275.4	297.9	323.4
87.5°	30.2	37.1	61.1	88.2	116.8	132.3	146.2	173.3	196.5	219.7	244.5
90°	2.3	9.3	28.6	54.9	83.6	98.3	110.6	134.6	159.4	183.4	205.8
92.5°	0.8	7.0	24.8	49.5	75.8	88.2	100.6	124.6	147.8	171.8	195.8
95°	0.8	6.2	22.4	45.6	71.2	82.8	94.4	118.4	142.4	164.8	184.9
97.5°	0.8	6.2	21.7	43.3	66.5	78.1	89.8	113.7	136.2	157.8	176.4
100°	0.8	5.4	20.1	40.2	63.4	74.3	85.9	108.3	130.0	150.1	167.9
102.5°	0.8	4.6	18.6	38.7	60.4	71.2	82.8	103.7	123.8	142.4	160.2
105°	0.8	4.6	17.8	37.1	58.0	68.9	78.9	99.8	118.4	136.2	152.4
107.5°	0.8	3.9	17.0	34.8	55.7	65.8	75.8	95.9	113.7	130.8	145.5
110°	0.8	3.9	15.5	33.3	53.4	63.4	73.5	92.1	109.9	125.3	139.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	3.1	14.7	31.7	51.1	61.1	70.4	89.0	106.0	120.7	133.9
115°	0.8	3.1	13.9	30.2	48.7	58.0	68.1	85.9	102.1	116.8	129.2
117.5°	1.5	2.3	12.4	28.6	46.4	55.7	65.0	82.8	99.0	113.7	126.9
120°	1.5	2.3	11.6	27.1	44.1	53.4	61.9	79.7	95.9	110.6	124.6
122.5°	1.5	2.3	10.8	24.8	41.8	50.3	59.6	76.6	92.8	108.3	121.5
125°	1.5	2.3	9.3	23.2	39.5	47.2	55.7	72.7	89.0	103.7	117.6
127.5°	1.5	1.5	8.5	20.9	36.4	44.1	52.6	68.9	84.3	98.3	112.2
130°	1.5	1.5	7.0	18.6	33.3	41.0	48.7	65.0	78.9	92.8	106.0
132.5°	1.5	1.5	6.2	16.2	29.4	36.4	44.1	59.6	73.5	86.7	99.0
135°	1.5	1.5	4.6	13.9	26.3	32.5	39.5	53.4	66.5	79.7	91.3
137.5°	2.3	1.5	3.9	11.6	22.4	28.6	34.0	47.2	58.8	72.0	84.3
140°	2.3	2.3	3.1	9.3	18.6	24.0	28.6	40.2	51.8	63.4	75.1
142.5°	2.3	2.3	3.1	7.7	15.5	20.1	24.8	34.0	44.9	55.7	66.5
145°	2.3	2.3	2.3	6.2	12.4	16.2	20.1	29.4	38.7	48.0	57.3
147.5°	2.3	2.3	2.3	4.6	10.1	13.2	16.2	24.0	32.5	41.0	48.7
150°	3.1	2.3	2.3	3.9	7.7	10.1	13.2	19.3	26.3	33.3	40.2
152.5°	3.1	2.3	2.3	3.1	6.2	7.7	10.1	15.5	20.9	26.3	32.5
155°	3.1	2.3	2.3	3.1	4.6	6.2	7.7	11.6	16.2	20.9	25.5
157.5°	3.1	3.1	2.3	2.3	3.9	4.6	5.4	8.5	11.6	15.5	19.3
160°	3.1	3.1	2.3	2.3	3.1	3.1	3.9	6.2	8.5	10.8	13.9
162.5°	3.1	3.1	2.3	2.3	2.3	2.3	3.1	3.9	5.4	7.0	9.3
165°	3.1	3.1	3.1	2.3	2.3	2.3	2.3	2.3	3.1	4.6	5.4
167.5°	3.1	3.1	3.1	2.3	2.3	1.5	1.5	1.5	2.3	2.3	3.1
170°	3.9	3.1	3.1	2.3	2.3	1.5	1.5	1.5	1.5	1.5	1.5
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°	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8	3881.8
2.5°	3835.3	3838.4	3851.6	3854.7	3859.3	3857.8	3860.1	3860.1	3862.4	3863.2
5°	3695.3	3712.3	3721.6	3715.4	3721.6	3718.5	3719.3	3715.4	3713.9	3716.2
7.5°	3486.4	3485.6	3487.2	3485.6	3486.4	3486.4	3492.6	3494.9	3487.2	3486.4
10°	3306.9	3310.0	3316.9	3319.3	3316.2	3312.3	3320.8	3323.1	3330.9	3336.3
12.5°	3190.1	3176.9	3196.2	3209.4	3210.9	3215.6	3215.6	3219.5	3211.7	3197.8
15°	3098.8	3108.0	3107.3	3092.6	3091.8	3092.6	3103.4	3097.2	3104.2	3113.5
17.5°	3019.1	3015.2	3025.3	3036.1	3040.0	3045.4	3042.3	3039.2	3039.2	3037.6
20°	2946.3	2967.2	2978.1	2973.4	2976.5	2983.5	2990.4	2992.0	2988.9	2985.0
22.5°	2897.6	2906.9	2917.7	2940.9	2933.2	2934.0	2919.3	2913.8	2908.4	2904.6
25°	2825.6	2842.7	2865.9	2855.8	2851.2	2850.4	2841.9	2841.9	2834.9	2833.4
27.5°	2773.8	2795.5	2777.7	2787.7	2787.7	2793.1	2790.0	2786.2	2783.1	2783.1
30°	2721.2	2708.0	2718.9	2728.1	2725.0	2722.0	2722.7	2711.9	2715.0	2711.1
32.5°	2637.6	2639.2	2654.6	2660.1	2661.6	2663.2	2657.0	2653.9	2650.8	2642.3
35°	2574.2	2589.6	2581.9	2593.5	2594.3	2574.2	2574.9	2566.4	2559.5	2552.5
37.5°	2501.4	2496.8	2518.5	2511.5	2499.9	2498.3	2491.4	2498.3	2496.0	2497.6
40°	2423.3	2435.7	2427.2	2427.2	2424.1	2431.0	2430.3	2424.8	2421.7	2417.9
42.5°	2348.2	2349.0	2339.7	2345.2	2344.4	2342.8	2335.1	2329.7	2332.0	2319.6
45°	2270.1	2247.7	2264.7	2250.0	2243.8	2250.8	2239.9	2236.8	2227.5	2230.6
47.5°	2159.5	2156.4	2157.9	2146.3	2144.0	2138.6	2123.1	2115.4	2112.3	2113.0
50°	2057.3	2063.5	2059.6	2055.0	2048.8	2040.3	2038.0	2041.1	2048.0	2038.8
52.5°	1967.6	1972.2	1969.1	1956.0	1950.6	1956.7	1962.2	1944.4	1937.4	1935.9
55°	1851.5	1868.5	1853.8	1860.0	1853.1	1853.1	1831.4	1829.9	1827.5	1822.1
57.5°	1738.6	1740.9	1745.5	1754.0	1733.1	1730.8	1728.5	1713.8	1701.4	1699.1
60°	1624.0	1617.9	1624.0	1611.7	1608.6	1607.0	1583.0	1564.5	1552.1	1556.0
62.5°	1491.0	1498.7	1487.9	1472.4	1467.8	1458.5	1432.2	1436.8	1432.2	1427.5
65°	1346.3	1354.8	1341.6	1324.6	1317.6	1311.5	1306.8	1289.8	1290.6	1282.1
67.5°	1216.3	1209.3	1209.3	1190.0	1187.7	1187.7	1168.3	1155.9	1155.2	1147.4
70°	1080.1	1084.0	1073.9	1067.0	1070.8	1057.7	1039.1	1032.1	1015.1	1013.6
72.5°	945.5	957.1	945.5	944.7	937.0	933.1	913.0	902.2	889.0	878.9
75°	811.6	822.5	820.1	815.5	811.6	803.9	789.2	767.5	754.4	747.4
77.5°	684.7	689.4	699.4	693.3	695.6	687.8	676.2	659.2	646.1	643.7
80°	558.6	569.5	578.7	580.3	580.3	579.5	569.5	564.0	565.6	562.5
82.5°	443.3	455.7	470.4	476.6	481.3	482.8	489.8	497.5	510.7	518.4
85°	341.2	359.8	374.5	386.9	394.6	403.1	420.1	441.8	474.3	493.6
87.5°	265.4	285.5	304.1	325.7	338.9	347.4	367.5	399.2	435.6	458.8
90°	227.5	247.6	270.8	290.9	299.4	311.0	337.3	362.9	393.8	410.1
92.5°	214.3	236.0	254.6	273.1	284.0	293.2	314.1	331.2	352.8	364.4
95°	204.3	222.1	242.9	260.0	269.3	277.8	290.9	307.2	325.0	335.8
97.5°	195.0	213.5	229.8	245.3	253.0	258.4	274.7	290.1	303.3	306.4
100°	185.7	202.7	215.9	229.0	237.5	243.7	256.9	266.2	269.3	270.0
102.5°	176.4	191.1	204.3	215.1	221.3	226.7	233.7	239.1	239.9	237.5
105°	166.4	179.5	191.1	201.2	203.5	206.6	208.9	205.0	201.9	198.8
107.5°	157.8	169.4	178.7	184.1	184.9	185.7	184.1	181.1	178.0	177.2
110°	150.9	160.9	167.1	169.4	170.2	170.2	167.9	165.6	164.0	162.5





TEST NUMBER: P241517

CATALOG NUMBER: FVS8M-4-LD4-30-3STD-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	144.7	153.2	158.6	161.7	162.5	163.3	163.3	162.5	161.7	160.9
115°	140.0	149.3	155.5	159.4	161.7	163.3	165.6	166.4	166.4	166.4
117.5°	137.7	147.8	155.5	161.7	164.8	167.1	170.2	171.8	171.8	171.0
120°	136.2	147.0	155.5	164.0	167.1	169.4	173.3	175.6	175.6	174.9
122.5°	133.9	145.5	154.7	163.3	167.1	170.2	174.9	177.2	177.2	177.2
125°	130.0	142.4	151.6	160.9	164.0	167.9	172.5	175.6	176.4	177.2
127.5°	124.6	136.9	147.0	156.3	160.2	163.3	168.7	172.5	174.1	174.9
130°	118.4	130.0	140.0	150.1	154.0	157.8	163.3	167.1	169.4	170.2
132.5°	110.6	122.2	132.3	141.6	146.2	149.3	156.3	160.2	163.3	163.3
135°	102.9	113.7	123.0	132.3	136.9	140.8	147.8	152.4	155.5	156.3
137.5°	94.4	104.5	113.7	123.0	126.9	130.8	136.9	142.4	146.2	147.0
140°	85.9	95.2	104.5	113.0	116.8	119.9	126.1	131.5	134.6	135.4
142.5°	76.6	85.9	94.4	102.1	105.2	108.3	114.5	119.2	120.7	122.2
145°	67.3	75.8	83.6	90.5	93.6	96.7	101.4	106.0	107.5	109.1
147.5°	57.3	65.8	72.7	78.9	82.0	84.3	89.0	92.1	95.2	95.2
150°	47.2	54.9	61.9	68.1	70.4	72.7	75.8	78.9	80.5	82.0
152.5°	37.9	44.1	51.1	57.3	58.8	60.4	64.2	65.8	68.1	68.9
155°	30.2	34.8	40.2	45.6	48.0	49.5	52.6	54.2	55.7	55.7
157.5°	23.2	27.1	30.2	34.8	37.1	39.5	41.8	43.3	44.1	44.1
160°	16.2	19.3	22.4	25.5	27.1	28.6	30.9	31.7	33.3	33.3
162.5°	10.8	13.2	15.5	17.8	18.6	19.3	21.7	23.2	24.0	24.0
165°	7.0	7.7	9.3	10.8	11.6	12.4	13.9	14.7	15.5	15.5
167.5°	3.1	3.9	4.6	5.4	5.4	6.2	7.0	8.5	8.5	8.5
170°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	3.1	3.1	3.1
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)