

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: P241519

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241519  
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-LD4-40-3STD-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**

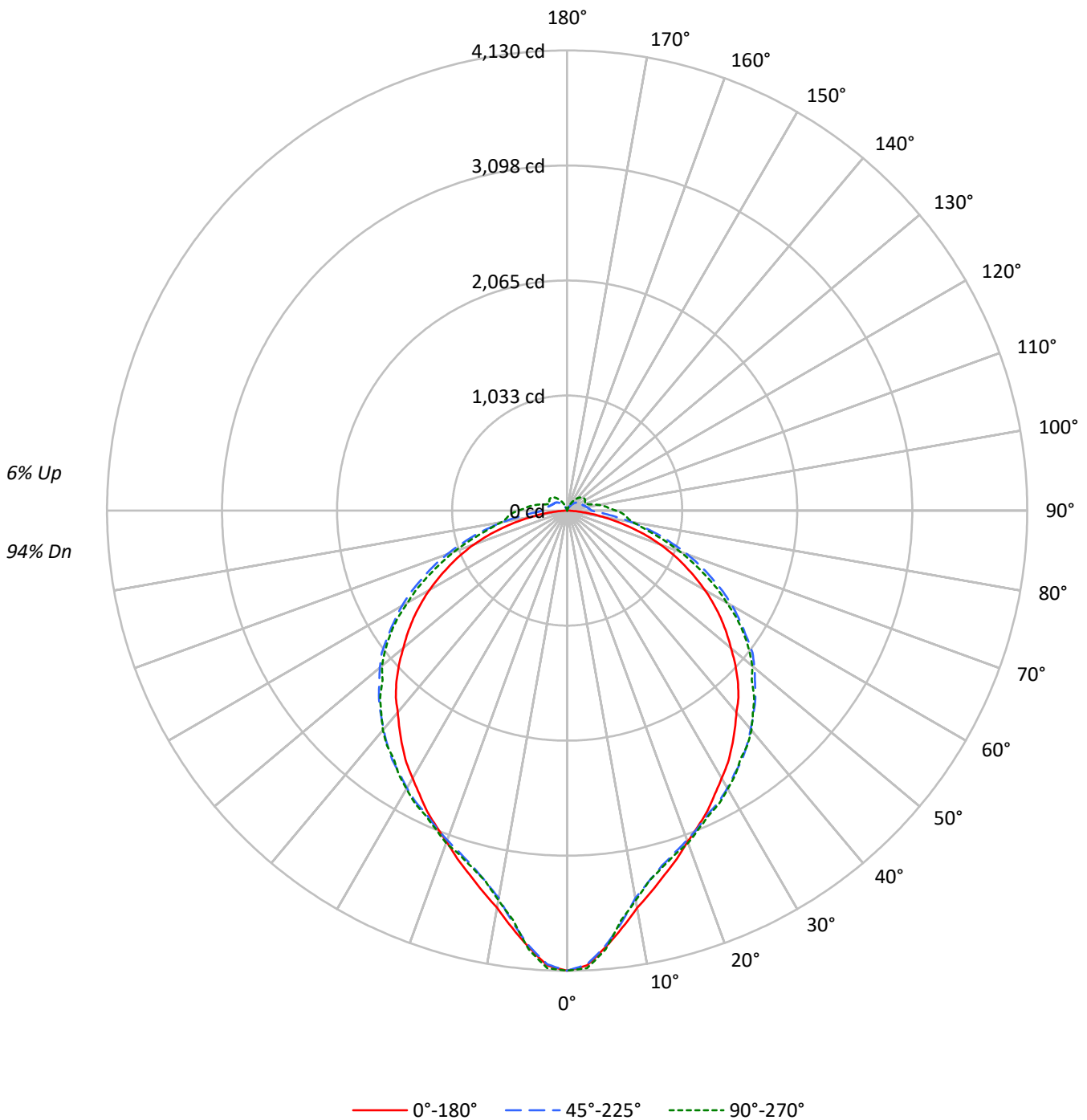
Lumens per Lamp: N/A  
Luminaire Lumens: 11113.0 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.27  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 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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### 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°	18456	18456	18456
5°	17595	17313	17393
10°	16316	15510	15491
15°	15491	14521	14451
20°	14826	14015	13956
25°	14419	13603	13448
30°	13995	13394	13168
35°	13700	13189	12793
40°	13354	12923	12617
45°	13178	12720	12236
50°	12752	12474	11883
55°	12428	12058	11421
60°	11955	11566	10636
65°	11324	10799	9718
70°	10509	9899	8696
75°	9017	8725	7451
80°	6832	7242	6753
85°	3618	5618	7521



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.4	3.3
10°-20°	941.0	8.5
20°-30°	1389.4	12.5
30°-40°	1690.8	15.2
40°-50°	1799.6	16.2
50°-60°	1692.3	15.2
60°-70°	1338.6	12.0
70°-80°	835.3	7.5
80°-90°	371.0	3.3
90°-100°	204.4	1.8
100°-110°	149.2	1.3
110°-120°	115.3	1.0
120°-130°	99.0	0.9
130°-140°	69.7	0.6
140°-150°	37.6	0.3
150°-160°	13.9	0.1
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	2693.8	24.2
0°-40°	4384.6	39.5
0°-60°	7876.5	70.9
0°-90°	10421.4	93.8
90°-120°	468.9	4.2
90°-150°	675.1	6.1
90°-180°	692.0	6.2
0°-180°	11113.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4130	4130	4130	4130	4130	
5°	3935	3932	3922	3959	3954	366
15°	3383	3359	3296	3289	3312	954
25°	2977	2998	3000	3033	3014	1370
35°	2580	2657	2734	2760	2716	1613
45°	2166	2285	2390	2387	2373	1666
55°	1684	1841	1962	1971	1938	1503
65°	1161	1298	1431	1402	1364	1148
75°	598	729	858	864	795	636
85°	102	221	344	420	525	134
90°	2	104	219	318	436	5
95°	1	88	197	286	357	1
105°	1	73	162	216	212	1
115°	1	62	138	172	177	1
125°	2	50	125	174	188	1
135°	2	35	97	146	166	1
145°	2	17	61	100	116	2
155°	3	7	27	51	59	2
165°	3	2	6	12	16	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°	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6
2.5°	4086.0	4090.1	4095.9	4087.6	4093.4	4089.3	4095.0	4092.6	4087.6	4086.0	4076.9
5°	3935.4	3947.7	3941.9	3937.0	3940.3	3932.1	3944.4	3937.0	3930.4	3920.5	3922.2
7.5°	3778.1	3772.4	3777.3	3762.5	3760.0	3764.2	3759.2	3757.6	3760.9	3740.3	3731.2
10°	3620.1	3627.5	3613.5	3611.9	3606.9	3608.6	3600.4	3589.7	3570.7	3547.7	3530.4
12.5°	3500.8	3499.9	3499.9	3487.6	3471.9	3475.2	3461.2	3437.4	3422.6	3410.2	3403.6
15°	3383.0	3383.9	3373.2	3361.6	3360.0	3359.2	3355.9	3336.1	3318.8	3309.0	3295.8
17.5°	3276.0	3277.7	3276.0	3270.3	3267.8	3256.3	3257.9	3239.8	3216.0	3213.5	3216.8
20°	3161.6	3174.0	3181.4	3160.0	3160.8	3153.4	3157.5	3150.1	3140.2	3145.2	3147.6
22.5°	3067.8	3079.3	3076.8	3070.3	3074.4	3076.0	3076.8	3079.3	3081.0	3076.0	3077.7
25°	2977.2	2975.6	2977.2	2992.1	2992.1	2997.8	2997.8	2995.4	2994.5	2989.6	2999.5
27.5°	2870.2	2881.8	2892.5	2899.9	2899.9	2905.6	2901.5	2922.9	2931.1	2935.3	2946.8
30°	2773.1	2790.4	2795.3	2801.9	2825.8	2834.8	2841.4	2860.4	2864.5	2866.9	2876.0
32.5°	2684.2	2689.2	2694.9	2727.8	2750.1	2756.6	2763.2	2771.5	2784.6	2786.3	2797.8
35°	2579.7	2582.1	2608.5	2631.5	2647.2	2657.0	2671.0	2694.9	2713.0	2727.0	2734.4
37.5°	2471.8	2492.4	2512.2	2523.7	2557.5	2578.9	2598.6	2625.8	2631.5	2641.4	2651.3
40°	2364.0	2385.4	2394.5	2434.8	2472.7	2489.1	2503.1	2522.1	2531.9	2552.5	2563.2
42.5°	2275.9	2280.1	2295.7	2335.2	2367.3	2379.7	2399.4	2434.8	2461.1	2477.6	2475.1
45°	2166.5	2165.6	2199.4	2219.1	2260.3	2285.0	2309.7	2338.5	2364.0	2386.2	2389.5
47.5°	2046.3	2055.3	2080.0	2108.8	2165.6	2192.0	2207.6	2228.2	2257.8	2273.5	2286.6
50°	1919.5	1946.7	1957.4	2008.4	2051.2	2070.2	2092.4	2127.8	2159.1	2183.8	2194.5
52.5°	1802.6	1816.6	1850.4	1886.6	1928.6	1960.7	1978.0	2024.9	2054.5	2072.6	2096.5
55°	1684.1	1690.7	1730.2	1764.8	1810.9	1841.3	1861.9	1904.7	1924.5	1953.3	1961.5
57.5°	1557.4	1569.7	1600.2	1642.1	1685.8	1707.2	1722.0	1771.4	1801.0	1831.5	1835.6
60°	1428.1	1444.6	1470.1	1517.8	1548.3	1570.5	1592.7	1643.0	1673.4	1698.9	1713.7
62.5°	1292.3	1305.5	1337.6	1377.1	1410.0	1433.9	1461.9	1503.9	1533.5	1562.3	1575.5
65°	1160.6	1174.6	1203.4	1236.3	1276.7	1298.1	1322.8	1357.3	1394.4	1415.0	1431.4
67.5°	1028.9	1035.5	1062.7	1097.2	1140.0	1154.8	1179.5	1213.3	1261.0	1276.7	1292.3
70°	890.6	894.7	917.0	958.1	990.2	1014.1	1028.9	1075.8	1108.8	1131.8	1147.4
72.5°	749.0	758.9	772.9	812.4	847.8	867.6	893.1	934.2	965.5	989.4	996.0
75°	598.4	609.9	633.8	671.7	706.2	729.3	751.5	781.1	816.5	841.2	858.5
77.5°	456.8	474.1	491.4	523.5	567.1	587.7	605.8	645.3	679.1	702.9	712.8
80°	324.3	337.5	359.7	390.2	433.0	451.1	470.0	506.2	535.9	558.1	580.3
82.5°	211.5	213.2	242.8	270.8	308.7	326.0	344.1	380.3	410.7	431.3	451.9
85°	102.1	113.6	136.6	166.3	202.5	220.6	237.9	268.3	293.0	316.9	344.1
87.5°	32.1	39.5	65.0	93.8	124.3	140.8	155.6	184.4	209.1	233.8	260.1
90°	2.5	9.9	30.5	58.4	88.9	104.5	117.7	143.2	169.6	195.1	219.0
92.5°	0.8	7.4	26.3	52.7	80.7	93.8	107.0	132.5	157.2	182.7	208.3
95°	0.8	6.6	23.9	48.6	75.7	88.1	100.4	125.9	151.5	175.3	196.7
97.5°	0.8	6.6	23.0	46.1	70.8	83.1	95.5	121.0	144.9	167.9	187.7
100°	0.8	5.8	21.4	42.8	67.5	79.0	91.4	115.2	138.3	159.7	178.6
102.5°	0.8	4.9	19.8	41.2	64.2	75.7	88.1	110.3	131.7	151.5	170.4
105°	0.8	4.9	18.9	39.5	61.7	73.3	84.0	106.2	125.9	144.9	162.2
107.5°	0.8	4.1	18.1	37.0	59.3	70.0	80.7	102.1	121.0	139.1	154.7
110°	0.8	4.1	16.5	35.4	56.8	67.5	78.2	98.0	116.9	133.3	148.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	3.3	15.6	33.7	54.3	65.0	74.9	94.7	112.8	128.4	142.4
115°	0.8	3.3	14.8	32.1	51.9	61.7	72.4	91.4	108.7	124.3	137.5
117.5°	1.6	2.5	13.2	30.5	49.4	59.3	69.1	88.1	105.4	121.0	135.0
120°	1.6	2.5	12.3	28.8	46.9	56.8	65.9	84.8	102.1	117.7	132.5
122.5°	1.6	2.5	11.5	26.3	44.4	53.5	63.4	81.5	98.8	115.2	129.2
125°	1.6	2.5	9.9	24.7	42.0	50.2	59.3	77.4	94.7	110.3	125.1
127.5°	1.6	1.6	9.1	22.2	38.7	46.9	56.0	73.3	89.7	104.5	119.4
130°	1.6	1.6	7.4	19.8	35.4	43.6	51.9	69.1	84.0	98.8	112.8
132.5°	1.6	1.6	6.6	17.3	31.3	38.7	46.9	63.4	78.2	92.2	105.4
135°	1.6	1.6	4.9	14.8	28.0	34.6	42.0	56.8	70.8	84.8	97.1
137.5°	2.5	1.6	4.1	12.3	23.9	30.5	36.2	50.2	62.6	76.6	89.7
140°	2.5	2.5	3.3	9.9	19.8	25.5	30.5	42.8	55.1	67.5	79.8
142.5°	2.5	2.5	3.3	8.2	16.5	21.4	26.3	36.2	47.7	59.3	70.8
145°	2.5	2.5	2.5	6.6	13.2	17.3	21.4	31.3	41.2	51.0	60.9
147.5°	2.5	2.5	2.5	4.9	10.7	14.0	17.3	25.5	34.6	43.6	51.9
150°	3.3	2.5	2.5	4.1	8.2	10.7	14.0	20.6	28.0	35.4	42.8
152.5°	3.3	2.5	2.5	3.3	6.6	8.2	10.7	16.5	22.2	28.0	34.6
155°	3.3	2.5	2.5	3.3	4.9	6.6	8.2	12.3	17.3	22.2	27.2
157.5°	3.3	3.3	2.5	2.5	4.1	4.9	5.8	9.1	12.3	16.5	20.6
160°	3.3	3.3	2.5	2.5	3.3	3.3	4.1	6.6	9.1	11.5	14.8
162.5°	3.3	3.3	2.5	2.5	2.5	2.5	3.3	4.1	5.8	7.4	9.9
165°	3.3	3.3	3.3	2.5	2.5	2.5	2.5	2.5	3.3	4.9	5.8
167.5°	3.3	3.3	3.3	2.5	2.5	1.6	1.6	1.6	2.5	2.5	3.3
170°	4.1	3.3	3.3	2.5	2.5	1.6	1.6	1.6	1.6	1.6	1.6
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°	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6	4129.6
2.5°	4080.2	4083.5	4097.5	4100.8	4105.8	4104.1	4106.6	4106.6	4109.0	4109.9
5°	3931.2	3949.4	3959.2	3952.6	3959.2	3955.9	3956.8	3952.6	3951.0	3953.5
7.5°	3709.0	3708.2	3709.8	3708.2	3709.0	3709.0	3715.6	3718.1	3709.8	3709.0
10°	3518.0	3521.3	3528.7	3531.2	3527.9	3523.8	3532.9	3535.3	3543.6	3549.3
12.5°	3393.7	3379.8	3400.3	3414.3	3416.0	3420.9	3420.9	3425.0	3416.8	3402.0
15°	3296.6	3306.5	3305.7	3290.0	3289.2	3290.0	3301.6	3295.0	3302.4	3312.3
17.5°	3211.8	3207.7	3218.4	3229.9	3234.1	3239.8	3236.5	3233.2	3233.2	3231.6
20°	3134.5	3156.7	3168.2	3163.3	3166.6	3174.0	3181.4	3183.0	3179.7	3175.6
22.5°	3082.6	3092.5	3104.0	3128.7	3120.5	3121.3	3105.7	3099.9	3094.1	3090.0
25°	3006.1	3024.2	3048.9	3038.2	3033.2	3032.4	3023.3	3023.3	3015.9	3014.3
27.5°	2950.9	2974.0	2955.0	2965.7	2965.7	2971.5	2968.2	2964.1	2960.8	2960.8
30°	2894.9	2880.9	2892.5	2902.3	2899.0	2895.8	2896.6	2885.1	2888.3	2884.2
32.5°	2806.0	2807.7	2824.1	2829.9	2831.6	2833.2	2826.6	2823.3	2820.0	2811.0
35°	2738.5	2755.0	2746.8	2759.1	2759.9	2738.5	2739.4	2730.3	2722.9	2715.5
37.5°	2661.2	2656.2	2679.3	2671.9	2659.5	2657.9	2650.5	2657.9	2655.4	2657.0
40°	2578.0	2591.2	2582.1	2582.1	2578.9	2586.3	2585.4	2579.7	2576.4	2572.3
42.5°	2498.2	2499.0	2489.1	2494.9	2494.1	2492.4	2484.2	2478.4	2480.9	2467.7
45°	2415.1	2391.2	2409.3	2393.6	2387.1	2394.5	2382.9	2379.7	2369.8	2373.1
47.5°	2297.3	2294.1	2295.7	2283.4	2280.9	2275.1	2258.7	2250.4	2247.1	2248.0
50°	2188.7	2195.3	2191.2	2186.2	2179.6	2170.6	2168.1	2171.4	2178.8	2168.9
52.5°	2093.2	2098.1	2094.9	2080.9	2075.1	2081.7	2087.4	2068.5	2061.1	2059.5
55°	1969.7	1987.8	1972.2	1978.8	1971.4	1971.4	1948.3	1946.7	1944.2	1938.5
57.5°	1849.6	1852.0	1857.0	1866.0	1843.8	1841.3	1838.9	1823.2	1810.1	1807.6
60°	1727.7	1721.2	1727.7	1714.6	1711.3	1709.6	1684.1	1664.4	1651.2	1655.3
62.5°	1586.2	1594.4	1582.9	1566.4	1561.5	1551.6	1523.6	1528.5	1523.6	1518.7
65°	1432.2	1441.3	1427.3	1409.2	1401.8	1395.2	1390.3	1372.2	1373.0	1363.9
67.5°	1294.0	1286.5	1286.5	1266.0	1263.5	1263.5	1242.9	1229.7	1228.9	1220.7
70°	1149.1	1153.2	1142.5	1135.1	1139.2	1125.2	1105.5	1098.0	1079.9	1078.3
72.5°	1005.9	1018.2	1005.9	1005.0	996.8	992.7	971.3	959.8	945.8	935.1
75°	863.5	875.0	872.5	867.6	863.5	855.2	839.6	816.5	802.5	795.1
77.5°	728.5	733.4	744.1	737.5	740.0	731.8	719.4	701.3	687.3	684.8
80°	594.3	605.8	615.7	617.3	617.3	616.5	605.8	600.1	601.7	598.4
82.5°	471.7	484.8	500.5	507.0	512.0	513.6	521.0	529.3	543.3	551.5
85°	363.0	382.8	398.4	411.6	419.8	428.8	447.0	470.0	504.6	525.2
87.5°	282.3	303.7	323.5	346.5	360.5	369.6	391.0	424.7	463.4	488.1
90°	242.0	263.4	288.1	309.5	318.5	330.9	358.9	386.0	419.0	436.3
92.5°	228.0	251.1	270.8	290.6	302.1	312.0	334.2	352.3	375.3	387.7
95°	217.3	236.2	258.5	276.6	286.4	295.5	309.5	326.8	345.7	357.2
97.5°	207.4	227.2	244.5	260.9	269.2	274.9	292.2	308.7	322.7	326.0
100°	197.6	215.7	229.7	243.6	252.7	259.3	273.3	283.2	286.4	287.3
102.5°	187.7	203.3	217.3	228.8	235.4	241.2	248.6	254.3	255.2	252.7
105°	177.0	191.0	203.3	214.0	216.5	219.8	222.2	218.1	214.8	211.5
107.5°	167.9	180.3	190.1	195.9	196.7	197.6	195.9	192.6	189.3	188.5
110°	160.5	171.2	177.8	180.3	181.1	181.1	178.6	176.1	174.5	172.9





TEST NUMBER: P241519

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	153.9	163.0	168.7	172.0	172.9	173.7	173.7	172.9	172.0	171.2
115°	149.0	158.9	165.4	169.6	172.0	173.7	176.1	177.0	177.0	177.0
117.5°	146.5	157.2	165.4	172.0	175.3	177.8	181.1	182.7	182.7	181.9
120°	144.9	156.4	165.4	174.5	177.8	180.3	184.4	186.8	186.8	186.0
122.5°	142.4	154.7	164.6	173.7	177.8	181.1	186.0	188.5	188.5	188.5
125°	138.3	151.5	161.3	171.2	174.5	178.6	183.6	186.8	187.7	188.5
127.5°	132.5	145.7	156.4	166.3	170.4	173.7	179.4	183.6	185.2	186.0
130°	125.9	138.3	149.0	159.7	163.8	167.9	173.7	177.8	180.3	181.1
132.5°	117.7	130.1	140.8	150.6	155.6	158.9	166.3	170.4	173.7	173.7
135°	109.5	121.0	130.9	140.8	145.7	149.8	157.2	162.2	165.4	166.3
137.5°	100.4	111.1	121.0	130.9	135.0	139.1	145.7	151.5	155.6	156.4
140°	91.4	101.2	111.1	120.2	124.3	127.6	134.2	139.9	143.2	144.0
142.5°	81.5	91.4	100.4	108.7	111.9	115.2	121.8	126.8	128.4	130.1
145°	71.6	80.7	88.9	96.3	99.6	102.9	107.8	112.8	114.4	116.1
147.5°	60.9	70.0	77.4	84.0	87.3	89.7	94.7	98.0	101.2	101.2
150°	50.2	58.4	65.9	72.4	74.9	77.4	80.7	84.0	85.6	87.3
152.5°	40.3	46.9	54.3	60.9	62.6	64.2	68.3	70.0	72.4	73.3
155°	32.1	37.0	42.8	48.6	51.0	52.7	56.0	57.6	59.3	59.3
157.5°	24.7	28.8	32.1	37.0	39.5	42.0	44.4	46.1	46.9	46.9
160°	17.3	20.6	23.9	27.2	28.8	30.5	32.9	33.7	35.4	35.4
162.5°	11.5	14.0	16.5	18.9	19.8	20.6	23.0	24.7	25.5	25.5
165°	7.4	8.2	9.9	11.5	12.3	13.2	14.8	15.6	16.5	16.5
167.5°	3.3	4.1	4.9	5.8	5.8	6.6	7.4	9.1	9.1	9.1
170°	1.6	1.6	1.6	1.6	2.5	2.5	2.5	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)