

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: P241322

Luminaire Tested: **FVS8M-2-LD4-35-2LO-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-2-LD4-35-2LO-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
2FT LENGTH, 2-MODULE LED WITH P125 LENS  
Light Source: (84) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

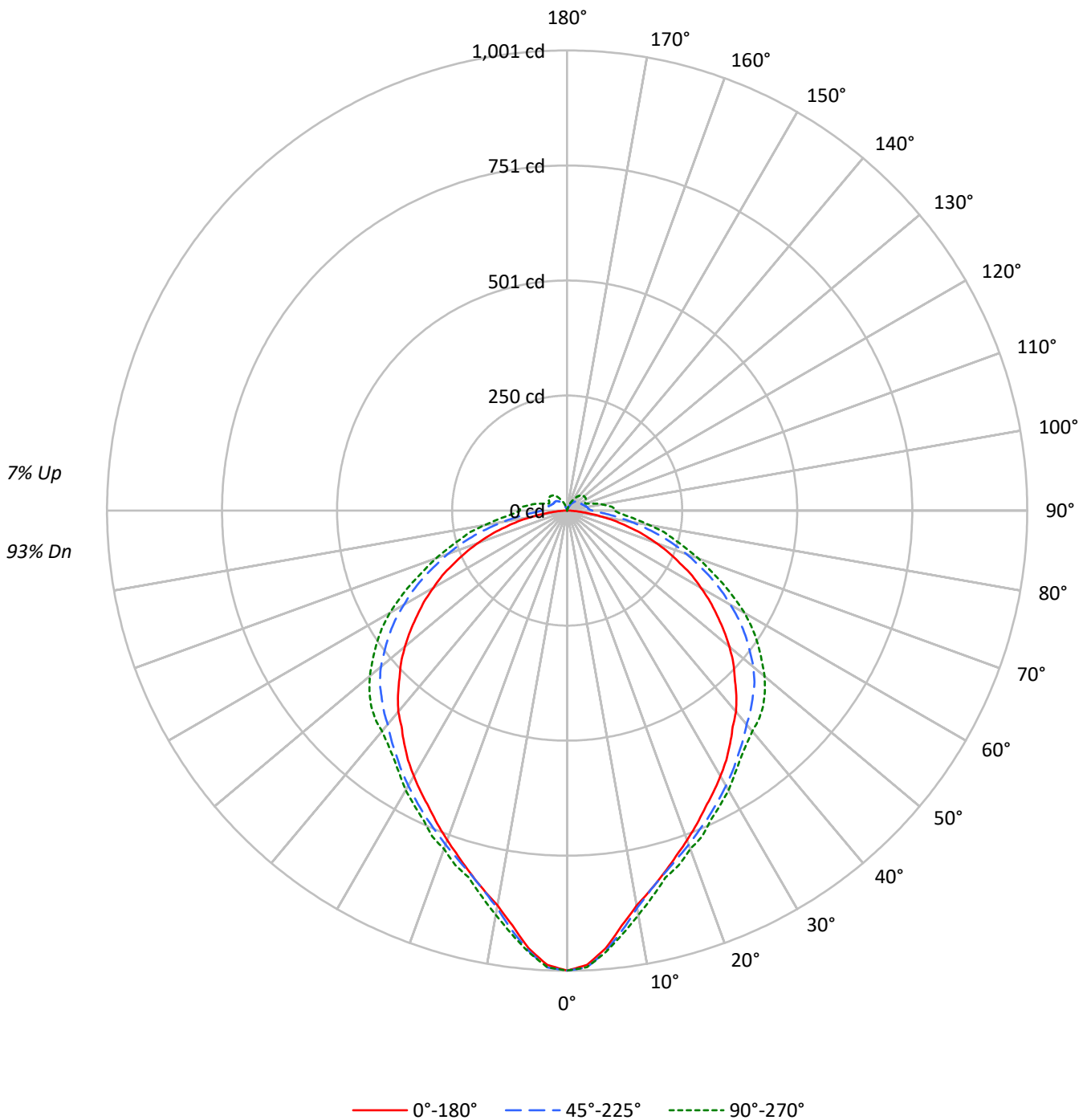
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2724.9 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.05 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 23.7  
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-2-LD4-35-2LO-P125-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	101	97	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	79	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	55	50	59	53	48	56	51	47	44
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

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

	0°	45°	90°
0°	8994	8994	8994
5°	8569	8516	8530
10°	7851	7716	7840
15°	7434	7187	7252
20°	7095	6858	6924
25°	6811	6600	6652
30°	6621	6378	6449
35°	6430	6187	6233
40°	6290	6037	6181
45°	6076	5977	6249
50°	5887	5885	6177
55°	5607	5669	6003
60°	5318	5369	5756
65°	4927	5013	5332
70°	4450	4559	4916
75°	3756	4011	4525
80°	2749	3303	4115
85°	1369	2539	3715



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.3
10°-20°	231.6	8.5
20°-30°	337.1	12.4
30°-40°	404.4	14.8
40°-50°	436.2	16.0
50°-60°	413.2	15.2
60°-70°	329.3	12.1
70°-80°	211.1	7.7
80°-90°	93.8	3.4
90°-100°	49.5	1.8
100°-110°	37.7	1.4
110°-120°	28.1	1.0
120°-130°	25.5	0.9
130°-140°	20.0	0.7
140°-150°	12.2	0.4
150°-160°	5.1	0.2
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	657.8	24.1
0°-40°	1062.2	39.0
0°-60°	1911.5	70.1
0°-90°	2545.7	93.4
90°-120°	115.3	4.2
90°-150°	173.0	6.3
90°-180°	179.0	6.6
0°-180°	2724.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	956	958	962	965	964	88
15°	816	814	817	827	826	230
25°	712	720	732	742	741	329
35°	618	632	649	662	658	387
45°	516	536	571	600	603	399
55°	398	427	473	499	507	357
65°	271	301	344	361	372	269
75°	140	166	208	234	240	149
85°	25	49	85	115	129	32
90°	0	22	55	75	103	1
95°	0	20	46	67	97	0
105°	0	18	40	55	59	0
115°	0	16	34	40	43	0
125°	0	13	33	44	49	0
135°	0	11	29	41	46	0
145°	1	7	21	31	36	0
155°	1	3	11	18	20	0
165°	1	1	3	7	7	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241322

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6
2.5°	989.2	989.2	989.2	989.2	990.4	989.8	991.0	991.6	992.8	993.4	994.6
5°	956.2	956.2	955.0	955.6	956.2	958.0	957.4	959.8	961.0	962.8	961.6
7.5°	910.5	912.9	911.7	912.3	911.7	912.9	915.3	915.9	918.9	920.7	920.7
10°	872.1	872.1	869.7	870.3	870.3	871.5	871.5	873.3	875.1	878.1	877.5
12.5°	843.9	843.9	840.9	841.5	839.7	840.3	840.3	840.9	842.1	843.9	843.9
15°	815.7	813.3	813.3	814.5	814.5	813.9	814.5	814.5	814.5	815.7	816.9
17.5°	788.1	788.1	788.7	788.1	789.3	788.7	788.7	790.5	791.7	791.7	794.1
20°	762.9	763.5	762.9	764.7	766.5	766.5	766.5	768.3	768.3	770.7	773.1
22.5°	737.7	738.3	740.1	739.5	741.9	741.9	741.3	744.9	746.7	749.1	752.1
25°	711.9	712.5	713.7	716.1	717.3	719.7	720.9	722.7	727.5	728.7	732.3
27.5°	689.7	689.1	690.3	695.1	695.1	696.9	699.3	703.5	704.1	709.5	711.3
30°	666.9	666.9	666.9	672.3	673.5	675.9	678.3	681.9	684.9	687.9	690.9
32.5°	644.0	641.6	643.4	647.6	653.6	653.6	654.8	660.8	663.3	666.9	670.5
35°	618.2	618.8	621.2	623.6	629.0	632.0	634.4	638.0	641.0	644.0	648.8
37.5°	591.8	594.2	596.6	599.6	603.2	606.8	609.2	614.0	620.6	623.6	628.4
40°	571.4	570.2	572.0	574.4	578.6	582.2	586.4	591.8	597.8	602.6	607.4
42.5°	545.0	543.8	548.6	550.4	557.0	558.2	563.0	569.6	577.4	584.0	590.6
45°	515.6	518.0	521.0	526.4	530.6	536.0	540.2	546.8	557.0	565.4	571.4
47.5°	490.4	489.8	493.4	499.4	506.0	510.2	514.4	524.0	534.8	543.8	552.8
50°	460.4	462.2	465.8	472.4	480.8	483.2	486.8	498.8	509.0	520.4	528.8
52.5°	430.4	431.0	436.4	443.0	452.0	456.2	461.6	471.8	482.0	492.2	500.6
55°	398.0	399.8	407.0	413.0	422.6	427.4	433.4	443.6	454.4	464.6	473.0
57.5°	369.1	370.3	375.1	382.9	393.1	396.8	403.4	414.8	424.4	435.2	443.6
60°	336.1	338.5	343.3	352.9	360.7	364.3	371.5	382.3	391.9	402.2	410.0
62.5°	306.7	306.7	310.9	320.5	328.3	333.1	339.1	348.1	359.5	368.5	378.7
65°	270.7	274.3	280.3	286.9	295.9	301.3	305.5	315.1	324.7	334.9	344.5
67.5°	239.5	241.9	246.1	253.9	264.1	266.5	273.1	282.7	291.1	300.1	309.1
70°	205.9	207.7	213.1	220.9	229.3	232.3	238.3	247.3	256.3	266.5	276.1
72.5°	174.1	175.3	181.3	187.3	195.7	201.1	204.7	212.5	222.7	233.5	242.5
75°	139.9	142.3	147.1	153.7	162.1	166.3	171.1	179.5	189.1	198.7	208.3
77.5°	109.8	109.8	114.6	121.8	129.0	133.9	138.1	147.1	156.7	165.1	173.5
80°	76.8	79.8	83.4	90.0	97.8	103.2	105.6	114.0	123.6	132.0	141.7
82.5°	49.8	51.6	55.8	62.4	69.6	72.6	76.8	85.2	94.2	103.8	111.6
85°	25.2	27.6	31.8	37.8	45.0	48.6	52.2	61.2	68.4	76.8	85.2
87.5°	9.6	10.8	15.0	21.0	27.6	31.2	34.2	42.0	49.2	57.6	66.0
90°	0.0	2.4	6.6	12.0	18.6	21.6	25.2	32.4	39.0	46.8	54.6
92.5°	0.0	1.8	5.4	10.8	16.8	20.4	23.4	30.0	36.6	43.8	49.2
95°	0.0	1.8	5.4	10.8	16.8	19.8	22.8	29.4	36.0	42.0	46.2
97.5°	0.0	1.2	5.4	10.8	16.2	19.2	22.2	28.8	34.8	40.2	45.0
100°	0.0	1.2	4.8	10.2	15.6	18.6	22.2	28.2	33.0	38.4	43.8
102.5°	0.0	1.2	4.8	9.6	15.6	18.6	21.6	27.0	31.8	37.2	42.0
105°	0.0	1.2	4.2	9.6	15.0	18.0	20.4	25.8	31.2	36.0	40.2
107.5°	0.0	1.2	4.2	9.0	14.4	16.8	19.8	25.2	30.0	34.2	38.4
110°	0.0	1.2	4.2	8.4	13.8	16.8	19.2	24.6	28.8	33.0	36.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.6	3.6	7.8	13.8	16.2	18.6	23.4	28.2	31.8	35.4
115°	0.0	0.6	3.6	7.8	13.2	15.6	18.0	22.8	27.0	31.2	34.2
117.5°	0.0	0.6	3.6	7.8	12.6	15.0	18.0	22.2	26.4	30.6	33.6
120°	0.0	0.6	3.0	7.2	12.0	14.4	17.4	22.2	26.4	30.0	33.0
122.5°	0.0	0.6	3.0	7.2	11.4	13.8	16.8	21.6	25.8	30.0	33.0
125°	0.0	0.6	3.0	6.6	11.4	13.2	16.2	21.0	25.8	29.4	33.0
127.5°	0.0	0.6	2.4	6.6	10.8	13.2	15.6	20.4	24.6	28.8	32.4
130°	0.0	0.6	2.4	6.0	10.2	12.6	15.0	19.2	24.0	28.2	31.8
132.5°	0.0	0.6	2.4	5.4	9.6	12.0	13.8	18.0	22.2	27.0	30.6
135°	0.0	0.6	1.8	4.8	9.0	10.8	13.2	17.4	21.0	25.2	28.8
137.5°	0.0	0.6	1.8	4.8	8.4	10.2	12.6	16.2	19.8	23.4	27.0
140°	0.0	0.0	1.2	4.2	7.2	9.0	11.4	15.0	18.6	22.2	25.2
142.5°	0.6	0.0	1.2	3.6	6.6	8.4	10.2	13.8	17.4	20.4	23.4
145°	0.6	0.0	0.6	3.0	5.4	7.2	8.4	12.0	15.6	18.6	21.0
147.5°	0.6	0.0	0.6	2.4	4.8	6.0	7.2	10.2	13.2	16.2	19.2
150°	0.6	0.0	0.6	1.8	3.6	4.8	6.0	8.4	11.4	14.4	16.8
152.5°	0.6	0.6	0.6	1.2	3.0	3.6	4.8	7.2	9.6	12.0	13.8
155°	0.6	0.6	0.6	0.6	1.8	3.0	3.6	5.4	7.8	9.6	11.4
157.5°	0.6	0.6	0.0	0.6	1.2	1.8	2.4	4.2	6.0	7.2	9.0
160°	0.6	0.6	0.0	0.6	1.2	1.2	1.8	3.0	4.2	5.4	6.6
162.5°	0.6	0.6	0.0	0.6	0.6	0.6	1.2	1.8	3.0	3.6	4.8
165°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	1.2	1.8	2.4	3.0
167.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	1.2	1.8
170°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
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°	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6	1000.6
2.5°	995.8	995.2	995.2	994.6	995.2	994.6	994.6	995.2	994.6	994.0
5°	964.6	965.2	965.8	964.6	965.2	964.6	964.6	964.0	964.6	964.0
7.5°	921.9	923.7	924.9	924.3	926.2	925.6	926.8	928.0	928.6	928.6
10°	879.9	881.1	882.9	885.3	886.5	887.7	889.5	891.9	892.5	893.1
12.5°	846.3	848.7	849.3	850.5	851.7	851.1	855.3	857.1	860.1	859.5
15°	818.1	821.7	822.9	826.5	827.1	828.3	831.9	828.9	828.3	826.5
17.5°	795.9	799.5	800.1	800.1	800.7	802.5	806.1	806.7	807.9	808.5
20°	774.3	776.7	779.1	780.9	782.1	782.7	784.5	782.1	782.7	783.3
22.5°	753.3	755.7	759.3	761.1	763.5	765.3	765.3	764.7	763.5	767.1
25°	735.9	737.7	741.3	741.3	742.5	744.3	741.9	743.7	742.5	741.3
27.5°	714.9	719.7	720.9	722.1	723.3	722.7	722.7	722.1	722.1	721.5
30°	695.7	697.5	701.1	701.7	702.9	704.1	704.1	705.3	701.7	702.3
32.5°	675.9	678.3	682.5	683.7	684.3	684.3	682.5	678.9	679.5	678.9
35°	652.4	657.8	662.1	662.1	661.5	662.1	660.8	660.2	658.4	657.8
37.5°	630.8	635.6	640.4	642.2	641.6	642.8	641.0	639.8	639.8	640.4
40°	612.8	616.4	621.2	624.8	624.8	626.0	626.0	626.0	627.2	626.6
42.5°	594.8	601.4	607.4	613.4	615.2	615.2	614.6	615.2	616.4	617.0
45°	579.8	587.0	593.0	597.8	599.6	599.6	600.8	602.6	602.0	602.6
47.5°	561.2	565.4	572.0	575.6	576.8	578.6	580.4	580.4	581.6	583.4
50°	535.4	540.8	546.2	552.2	554.0	554.0	557.0	558.8	559.4	560.6
52.5°	507.8	515.6	520.4	525.2	526.4	527.6	529.4	530.6	531.2	533.0
55°	479.0	487.4	491.0	496.4	498.8	501.8	500.0	504.8	505.4	506.6
57.5°	451.4	457.4	464.0	467.0	467.0	469.4	473.6	474.8	477.2	477.8
60°	417.2	424.4	430.4	431.6	434.0	434.6	437.6	440.6	443.6	445.4
62.5°	383.5	390.1	395.5	397.4	398.6	399.8	403.4	406.4	409.4	408.8
65°	349.9	356.5	360.7	361.3	361.3	364.9	367.3	367.9	372.1	372.1
67.5°	316.9	323.5	325.9	329.5	330.1	329.5	331.3	334.3	337.3	334.9
70°	283.3	288.7	292.9	297.7	296.5	296.5	297.7	300.1	301.3	303.1
72.5°	249.1	255.1	259.9	263.5	264.7	266.5	267.1	268.3	268.9	270.1
75°	216.1	221.5	228.1	232.9	233.5	235.3	237.1	238.3	238.3	240.1
77.5°	182.5	190.9	195.7	201.7	201.7	204.1	209.5	210.7	214.3	215.5
80°	150.1	157.3	165.7	171.1	174.1	177.1	177.7	177.7	179.5	181.3
82.5°	120.6	127.8	137.5	141.7	143.5	144.1	148.9	150.7	153.1	154.3
85°	94.8	104.4	108.6	112.8	114.6	115.8	120.0	123.0	127.2	129.0
87.5°	75.6	79.8	84.0	88.2	90.0	91.8	97.2	101.4	108.6	112.2
90°	60.0	63.6	67.8	73.2	75.0	78.0	83.4	89.4	97.8	102.6
92.5°	53.4	57.6	61.8	67.2	70.2	72.6	78.6	86.4	97.2	102.6
95°	51.0	55.8	60.6	64.8	67.2	70.2	76.8	85.8	94.2	97.2
97.5°	50.4	54.6	58.2	63.0	65.4	68.4	75.0	80.4	84.0	85.8
100°	48.0	52.2	56.4	60.6	63.6	65.4	69.6	73.8	76.2	77.4
102.5°	46.2	49.8	54.0	57.6	59.4	61.2	64.8	67.8	69.0	69.0
105°	44.4	47.4	51.0	53.4	55.2	56.4	58.2	58.8	58.8	58.8
107.5°	42.0	45.0	47.4	49.2	49.8	50.4	50.4	50.4	49.8	49.2
110°	39.6	42.6	43.8	44.4	44.4	44.4	44.4	44.4	44.4	43.8





TEST NUMBER: P241322

CATALOG NUMBER: FVS8M-2-LD4-35-2LO-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	37.8	39.6	40.8	41.4	40.8	41.4	41.4	42.0	42.0	42.0
115°	36.6	38.4	39.0	39.6	40.2	40.2	41.4	42.0	42.6	42.6
117.5°	36.0	37.8	39.0	40.8	40.8	41.4	42.6	43.8	44.4	44.4
120°	36.0	37.8	40.2	42.0	42.6	43.2	44.4	45.6	46.2	46.2
122.5°	36.0	38.4	40.8	42.6	43.8	44.4	45.6	46.8	47.4	48.0
125°	36.0	38.4	41.4	43.2	43.8	45.0	46.2	47.4	48.0	48.6
127.5°	35.4	38.4	40.8	43.2	43.8	44.4	46.2	47.4	48.0	48.6
130°	34.8	37.8	40.2	42.0	43.2	43.8	45.6	46.8	47.4	48.0
132.5°	33.6	36.6	39.0	41.4	42.0	43.2	45.0	46.2	46.8	47.4
135°	32.4	35.4	37.8	40.2	40.8	42.0	43.8	45.0	46.2	46.2
137.5°	30.6	33.6	36.0	38.4	39.6	40.2	42.0	43.8	44.4	45.0
140°	28.8	31.2	34.2	36.0	37.2	38.4	39.6	41.4	42.0	42.6
142.5°	26.4	28.8	31.2	33.6	34.8	35.4	37.2	38.4	39.6	39.6
145°	24.0	25.8	28.2	30.6	31.2	31.8	33.6	34.8	35.4	36.0
147.5°	21.6	23.4	25.8	27.0	27.6	28.8	30.0	31.2	31.2	31.8
150°	18.6	20.4	22.2	23.4	24.6	25.2	26.4	27.0	27.6	27.6
152.5°	16.2	17.4	19.2	20.4	21.0	21.6	22.2	23.4	23.4	24.0
155°	13.2	15.0	16.2	17.4	18.0	18.6	19.2	19.8	19.8	20.4
157.5°	10.8	12.0	13.2	14.4	15.0	15.0	16.2	16.2	16.8	16.2
160°	8.4	9.6	10.8	11.4	12.0	12.0	12.6	13.2	13.2	13.2
162.5°	6.0	7.2	7.8	9.0	9.0	9.0	9.6	10.2	10.2	10.2
165°	4.2	4.8	5.4	6.0	6.6	6.6	6.6	7.2	7.2	7.2
167.5°	2.4	2.4	3.0	3.6	3.6	4.2	4.2	4.2	4.8	4.8
170°	0.6	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4	2.4
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)