

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: P241326

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241326  
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-LD4-35-2STD-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

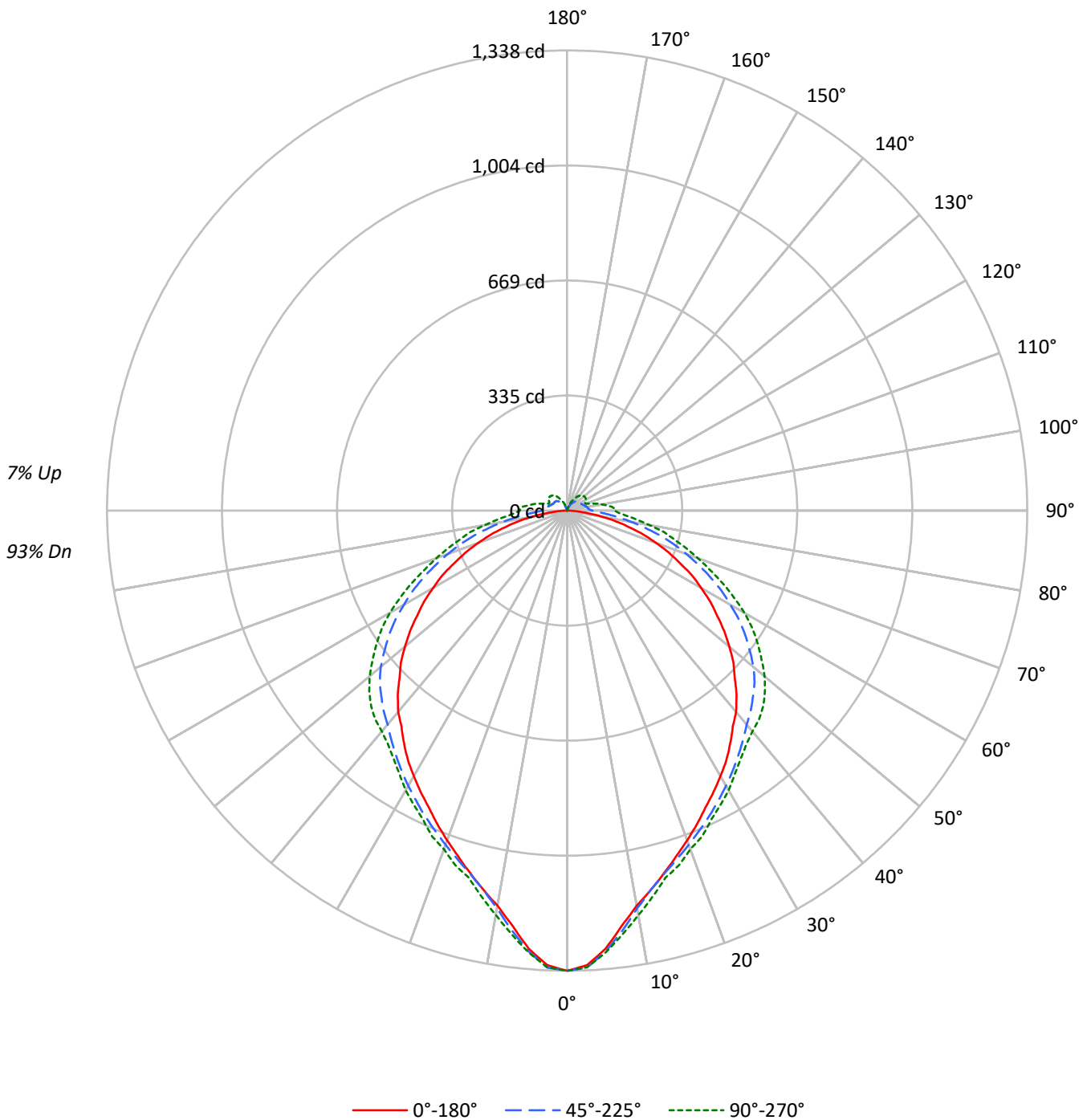
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3644.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 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): 33.6  
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-LD4-35-2STD-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°	12027	12027	12027
5°	11458	11387	11406
10°	10500	10319	10484
15°	9941	9611	9699
20°	9487	9170	9259
25°	9107	8826	8895
30°	8853	8529	8623
35°	8598	8274	8335
40°	8411	8073	8267
45°	8126	7993	8357
50°	7871	7869	8261
55°	7498	7581	8027
60°	7112	7179	7697
65°	6588	6704	7131
70°	5950	6097	6574
75°	5021	5363	6052
80°	3676	4414	5502
85°	1830	3397	4971



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	3.3
10°-20°	309.7	8.5
20°-30°	450.7	12.4
30°-40°	540.8	14.8
40°-50°	583.3	16.0
50°-60°	552.5	15.2
60°-70°	440.4	12.1
70°-80°	282.3	7.7
80°-90°	125.4	3.4
90°-100°	66.2	1.8
100°-110°	50.4	1.4
110°-120°	37.6	1.0
120°-130°	34.1	0.9
130°-140°	26.8	0.7
140°-150°	16.3	0.4
150°-160°	6.8	0.2
160°-170°	1.5	0.0
170°-180°	0.0	0.0
0°-30°	879.6	24.1
0°-40°	1420.4	39.0
0°-60°	2556.2	70.1
0°-90°	3404.3	93.4
90°-120°	154.2	4.2
90°-150°	231.4	6.4
90°-180°	240.0	6.6
0°-180°	3644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1279	1281	1286	1291	1289	118
15°	1091	1088	1092	1106	1105	307
25°	952	962	979	993	991	440
35°	827	845	868	884	880	518
45°	690	717	764	802	806	534
55°	532	572	632	667	677	477
65°	362	403	461	483	498	360
75°	187	222	278	312	321	199
85°	34	65	114	153	173	43
90°	0	29	73	100	137	2
95°	0	26	62	90	130	0
105°	0	24	54	74	79	0
115°	0	21	46	54	57	0
125°	0	18	44	59	65	0
135°	0	14	38	55	62	0
145°	1	10	28	42	48	0
155°	1	4	15	24	27	0
165°	1	1	4	9	10	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241326

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0
2.5°	1322.8	1322.8	1322.8	1322.8	1324.4	1323.6	1325.2	1326.0	1327.6	1328.4	1330.0
5°	1278.6	1278.6	1277.0	1277.8	1278.6	1281.0	1280.2	1283.4	1285.0	1287.5	1285.8
7.5°	1217.6	1220.8	1219.2	1220.0	1219.2	1220.8	1224.0	1224.8	1228.9	1231.3	1231.3
10°	1166.3	1166.3	1163.0	1163.8	1163.8	1165.5	1165.5	1167.9	1170.3	1174.3	1173.5
12.5°	1128.5	1128.5	1124.5	1125.3	1122.9	1123.7	1123.7	1124.5	1126.1	1128.5	1128.5
15°	1090.8	1087.6	1087.6	1089.2	1089.2	1088.4	1089.2	1089.2	1089.2	1090.8	1092.4
17.5°	1053.9	1053.9	1054.7	1053.9	1055.5	1054.7	1054.7	1057.1	1058.7	1058.7	1061.9
20°	1020.2	1021.0	1020.2	1022.6	1025.0	1025.0	1025.0	1027.4	1027.4	1030.6	1033.8
22.5°	986.5	987.3	989.7	988.9	992.1	992.1	991.3	996.1	998.5	1001.7	1005.7
25°	951.9	952.7	954.4	957.6	959.2	962.4	964.0	966.4	972.8	974.4	979.2
27.5°	922.2	921.4	923.0	929.5	929.5	931.9	935.1	940.7	941.5	948.7	951.1
30°	891.7	891.7	891.7	899.0	900.6	903.8	907.0	911.8	915.8	919.8	923.9
32.5°	861.2	858.0	860.4	866.1	874.1	874.1	875.7	883.7	886.9	891.7	896.6
35°	826.7	827.5	830.7	834.0	841.2	845.2	848.4	853.2	857.2	861.2	867.7
37.5°	791.4	794.6	797.8	801.8	806.7	811.5	814.7	821.1	829.9	834.0	840.4
40°	764.1	762.5	764.9	768.1	773.8	778.6	784.2	791.4	799.4	805.9	812.3
42.5°	728.8	727.2	733.6	736.0	744.9	746.5	752.9	761.7	772.2	781.0	789.8
45°	689.5	692.7	696.7	703.9	709.5	716.8	722.4	731.2	744.9	756.1	764.1
47.5°	655.8	655.0	659.8	667.8	676.6	682.3	687.9	700.7	715.2	727.2	739.2
50°	615.6	618.0	622.9	631.7	642.9	646.1	651.0	667.0	680.6	695.9	707.1
52.5°	575.5	576.3	583.5	592.4	604.4	610.0	617.2	630.9	644.5	658.2	669.4
55°	532.2	534.6	544.2	552.2	565.1	571.5	579.5	593.2	607.6	621.3	632.5
57.5°	493.6	495.2	501.7	512.1	525.7	530.6	539.4	554.6	567.5	581.9	593.2
60°	449.5	452.7	459.1	472.0	482.4	487.2	496.8	511.3	524.1	537.8	548.2
62.5°	410.2	410.2	415.8	428.6	439.1	445.5	453.5	465.5	480.8	492.8	506.5
65°	362.0	366.8	374.8	383.7	395.7	402.9	408.5	421.4	434.2	447.9	460.7
67.5°	320.3	323.5	329.1	339.5	353.2	356.4	365.2	378.0	389.3	401.3	413.4
70°	275.3	277.7	284.9	295.4	306.6	310.6	318.7	330.7	342.7	356.4	369.2
72.5°	232.8	234.4	242.4	250.4	261.7	268.9	273.7	284.1	297.8	312.2	324.3
75°	187.0	190.2	196.6	205.5	216.7	222.3	228.8	240.0	252.8	265.7	278.5
77.5°	146.9	146.9	153.3	162.9	172.6	179.0	184.6	196.6	209.5	220.7	232.0
80°	102.7	106.8	111.6	120.4	130.8	138.1	141.3	152.5	165.3	176.6	189.4
82.5°	66.6	69.0	74.6	83.5	93.1	97.1	102.7	114.0	126.0	138.9	149.3
85°	33.7	36.9	42.5	50.6	60.2	65.0	69.8	81.9	91.5	102.7	114.0
87.5°	12.8	14.4	20.1	28.1	36.9	41.7	45.8	56.2	65.8	77.1	88.3
90°	0.0	3.2	8.8	16.1	24.9	28.9	33.7	43.3	52.2	62.6	73.0
92.5°	0.0	2.4	7.2	14.4	22.5	27.3	31.3	40.1	49.0	58.6	65.8
95°	0.0	2.4	7.2	14.4	22.5	26.5	30.5	39.3	48.2	56.2	61.8
97.5°	0.0	1.6	7.2	14.4	21.7	25.7	29.7	38.5	46.6	53.8	60.2
100°	0.0	1.6	6.4	13.6	20.9	24.9	29.7	37.7	44.1	51.4	58.6
102.5°	0.0	1.6	6.4	12.8	20.9	24.9	28.9	36.1	42.5	49.8	56.2
105°	0.0	1.6	5.6	12.8	20.1	24.1	27.3	34.5	41.7	48.2	53.8
107.5°	0.0	1.6	5.6	12.0	19.3	22.5	26.5	33.7	40.1	45.8	51.4
110°	0.0	1.6	5.6	11.2	18.5	22.5	25.7	32.9	38.5	44.1	49.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.8	4.8	10.4	18.5	21.7	24.9	31.3	37.7	42.5	47.4
115°	0.0	0.8	4.8	10.4	17.7	20.9	24.1	30.5	36.1	41.7	45.8
117.5°	0.0	0.8	4.8	10.4	16.9	20.1	24.1	29.7	35.3	40.9	44.9
120°	0.0	0.8	4.0	9.6	16.1	19.3	23.3	29.7	35.3	40.1	44.1
122.5°	0.0	0.8	4.0	9.6	15.3	18.5	22.5	28.9	34.5	40.1	44.1
125°	0.0	0.8	4.0	8.8	15.3	17.7	21.7	28.1	34.5	39.3	44.1
127.5°	0.0	0.8	3.2	8.8	14.4	17.7	20.9	27.3	32.9	38.5	43.3
130°	0.0	0.8	3.2	8.0	13.6	16.9	20.1	25.7	32.1	37.7	42.5
132.5°	0.0	0.8	3.2	7.2	12.8	16.1	18.5	24.1	29.7	36.1	40.9
135°	0.0	0.8	2.4	6.4	12.0	14.4	17.7	23.3	28.1	33.7	38.5
137.5°	0.0	0.8	2.4	6.4	11.2	13.6	16.9	21.7	26.5	31.3	36.1
140°	0.0	0.0	1.6	5.6	9.6	12.0	15.3	20.1	24.9	29.7	33.7
142.5°	0.8	0.0	1.6	4.8	8.8	11.2	13.6	18.5	23.3	27.3	31.3
145°	0.8	0.0	0.8	4.0	7.2	9.6	11.2	16.1	20.9	24.9	28.1
147.5°	0.8	0.0	0.8	3.2	6.4	8.0	9.6	13.6	17.7	21.7	25.7
150°	0.8	0.0	0.8	2.4	4.8	6.4	8.0	11.2	15.3	19.3	22.5
152.5°	0.8	0.8	0.8	1.6	4.0	4.8	6.4	9.6	12.8	16.1	18.5
155°	0.8	0.8	0.8	0.8	2.4	4.0	4.8	7.2	10.4	12.8	15.3
157.5°	0.8	0.8	0.0	0.8	1.6	2.4	3.2	5.6	8.0	9.6	12.0
160°	0.8	0.8	0.0	0.8	1.6	1.6	2.4	4.0	5.6	7.2	8.8
162.5°	0.8	0.8	0.0	0.8	0.8	0.8	1.6	2.4	4.0	4.8	6.4
165°	0.8	0.8	0.8	0.0	0.8	0.8	0.8	1.6	2.4	3.2	4.0
167.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	1.6	2.4
170°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0	1338.0
2.5°	1331.6	1330.8	1330.8	1330.0	1330.8	1330.0	1330.0	1330.8	1330.0	1329.2
5°	1289.9	1290.7	1291.5	1289.9	1290.7	1289.9	1289.9	1289.1	1289.9	1289.1
7.5°	1232.9	1235.3	1236.9	1236.1	1238.5	1237.7	1239.3	1240.9	1241.7	1241.7
10°	1176.7	1178.3	1180.7	1183.9	1185.5	1187.1	1189.5	1192.7	1193.5	1194.3
12.5°	1131.7	1135.0	1135.8	1137.4	1139.0	1138.2	1143.8	1146.2	1150.2	1149.4
15°	1094.0	1098.8	1100.4	1105.3	1106.1	1107.7	1112.5	1108.5	1107.7	1105.3
17.5°	1064.3	1069.1	1069.9	1069.9	1070.7	1073.1	1078.0	1078.8	1080.4	1081.2
20°	1035.4	1038.6	1041.8	1044.3	1045.9	1046.7	1049.1	1045.9	1046.7	1047.5
22.5°	1007.3	1010.5	1015.4	1017.8	1021.0	1023.4	1023.4	1022.6	1021.0	1025.8
25°	984.1	986.5	991.3	991.3	992.9	995.3	992.1	994.5	992.9	991.3
27.5°	956.0	962.4	964.0	965.6	967.2	966.4	966.4	965.6	965.6	964.8
30°	930.3	932.7	937.5	938.3	939.9	941.5	941.5	943.1	938.3	939.1
32.5°	903.8	907.0	912.6	914.2	915.0	915.0	912.6	907.8	908.6	907.8
35°	872.5	879.7	885.3	885.3	884.5	885.3	883.7	882.9	880.5	879.7
37.5°	843.6	850.0	856.4	858.8	858.0	859.6	857.2	855.6	855.6	856.4
40°	819.5	824.3	830.7	835.6	835.6	837.2	837.2	837.2	838.8	838.0
42.5°	795.4	804.3	812.3	820.3	822.7	822.7	821.9	822.7	824.3	825.1
45°	775.4	785.0	793.0	799.4	801.8	801.8	803.5	805.9	805.1	805.9
47.5°	750.5	756.1	764.9	769.7	771.3	773.8	776.2	776.2	777.8	780.2
50°	716.0	723.2	730.4	738.4	740.8	740.8	744.9	747.3	748.1	749.7
52.5°	679.0	689.5	695.9	702.3	703.9	705.5	707.9	709.5	710.3	712.8
55°	640.5	651.8	656.6	663.8	667.0	671.0	668.6	675.0	675.8	677.4
57.5°	603.6	611.6	620.5	624.5	624.5	627.7	633.3	634.9	638.1	638.9
60°	557.8	567.5	575.5	577.1	580.3	581.1	585.1	589.1	593.2	595.6
62.5°	512.9	521.7	528.9	531.4	533.0	534.6	539.4	543.4	547.4	546.6
65°	467.9	476.8	482.4	483.2	483.2	488.0	491.2	492.0	497.6	497.6
67.5°	423.8	432.6	435.8	440.7	441.5	440.7	443.1	447.1	451.1	447.9
70°	378.9	386.1	391.7	398.1	396.5	396.5	398.1	401.3	402.9	405.3
72.5°	333.1	341.1	347.5	352.4	354.0	356.4	357.2	358.8	359.6	361.2
75°	289.0	296.2	305.0	311.4	312.2	314.6	317.0	318.7	318.7	321.1
77.5°	244.0	255.2	261.7	269.7	269.7	272.9	280.1	281.7	286.5	288.2
80°	200.7	210.3	221.5	228.8	232.8	236.8	237.6	237.6	240.0	242.4
82.5°	161.3	171.0	183.8	189.4	191.8	192.6	199.1	201.5	204.7	206.3
85°	126.8	139.7	145.3	150.9	153.3	154.9	160.5	164.5	170.2	172.6
87.5°	101.1	106.8	112.4	118.0	120.4	122.8	130.0	135.6	145.3	150.1
90°	80.3	85.1	90.7	97.9	100.3	104.3	111.6	119.6	130.8	137.3
92.5°	71.4	77.1	82.7	89.9	93.9	97.1	105.1	115.6	130.0	137.3
95°	68.2	74.6	81.1	86.7	89.9	93.9	102.7	114.8	126.0	130.0
97.5°	67.4	73.0	77.9	84.3	87.5	91.5	100.3	107.6	112.4	114.8
100°	64.2	69.8	75.4	81.1	85.1	87.5	93.1	98.7	101.9	103.5
102.5°	61.8	66.6	72.2	77.1	79.5	81.9	86.7	90.7	92.3	92.3
105°	59.4	63.4	68.2	71.4	73.8	75.4	77.9	78.7	78.7	78.7
107.5°	56.2	60.2	63.4	65.8	66.6	67.4	67.4	67.4	66.6	65.8
110°	53.0	57.0	58.6	59.4	59.4	59.4	59.4	59.4	59.4	58.6





TEST NUMBER: P241326

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	50.6	53.0	54.6	55.4	54.6	55.4	55.4	56.2	56.2	56.2
115°	49.0	51.4	52.2	53.0	53.8	53.8	55.4	56.2	57.0	57.0
117.5°	48.2	50.6	52.2	54.6	54.6	55.4	57.0	58.6	59.4	59.4
120°	48.2	50.6	53.8	56.2	57.0	57.8	59.4	61.0	61.8	61.8
122.5°	48.2	51.4	54.6	57.0	58.6	59.4	61.0	62.6	63.4	64.2
125°	48.2	51.4	55.4	57.8	58.6	60.2	61.8	63.4	64.2	65.0
127.5°	47.4	51.4	54.6	57.8	58.6	59.4	61.8	63.4	64.2	65.0
130°	46.6	50.6	53.8	56.2	57.8	58.6	61.0	62.6	63.4	64.2
132.5°	44.9	49.0	52.2	55.4	56.2	57.8	60.2	61.8	62.6	63.4
135°	43.3	47.4	50.6	53.8	54.6	56.2	58.6	60.2	61.8	61.8
137.5°	40.9	44.9	48.2	51.4	53.0	53.8	56.2	58.6	59.4	60.2
140°	38.5	41.7	45.8	48.2	49.8	51.4	53.0	55.4	56.2	57.0
142.5°	35.3	38.5	41.7	44.9	46.6	47.4	49.8	51.4	53.0	53.0
145°	32.1	34.5	37.7	40.9	41.7	42.5	44.9	46.6	47.4	48.2
147.5°	28.9	31.3	34.5	36.1	36.9	38.5	40.1	41.7	41.7	42.5
150°	24.9	27.3	29.7	31.3	32.9	33.7	35.3	36.1	36.9	36.9
152.5°	21.7	23.3	25.7	27.3	28.1	28.9	29.7	31.3	31.3	32.1
155°	17.7	20.1	21.7	23.3	24.1	24.9	25.7	26.5	26.5	27.3
157.5°	14.4	16.1	17.7	19.3	20.1	20.1	21.7	21.7	22.5	21.7
160°	11.2	12.8	14.4	15.3	16.1	16.1	16.9	17.7	17.7	17.7
162.5°	8.0	9.6	10.4	12.0	12.0	12.0	12.8	13.6	13.6	13.6
165°	5.6	6.4	7.2	8.0	8.8	8.8	8.8	9.6	9.6	9.6
167.5°	3.2	3.2	4.0	4.8	4.8	5.6	5.6	5.6	6.4	6.4
170°	0.8	1.6	1.6	2.4	2.4	2.4	2.4	2.4	3.2	3.2
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)