

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: P241521

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241521  
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-LD4-30-3HI-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

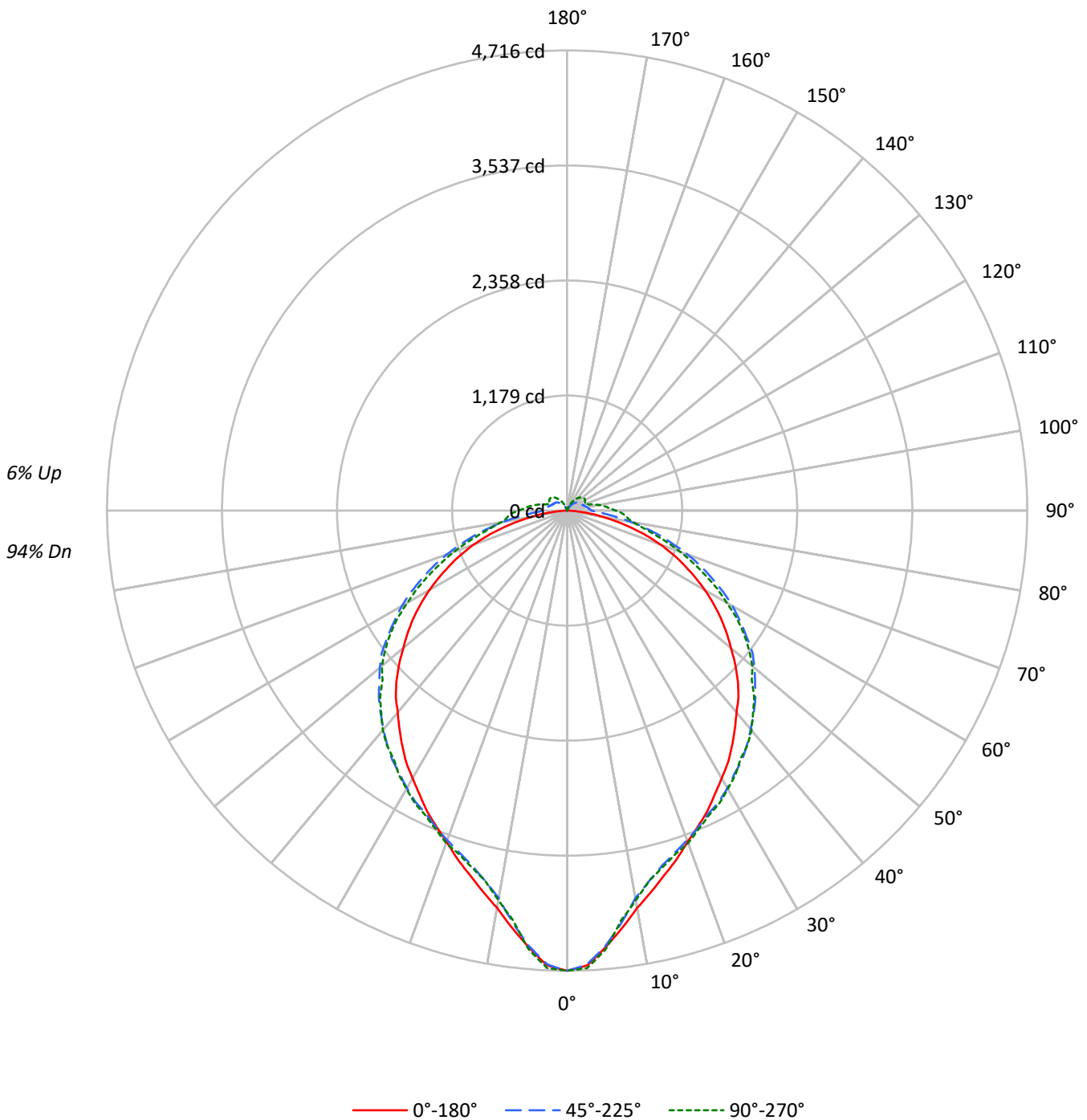
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12691.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 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): 129.5  
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-LD4-30-3HI-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°	21077	21077	21077
5°	20094	19771	19863
10°	18633	17712	17690
15°	17690	16583	16503
20°	16931	16005	15938
25°	16466	15535	15358
30°	15983	15296	15038
35°	15645	15062	14610
40°	15250	14758	14408
45°	15049	14526	13973
50°	14563	14245	13570
55°	14194	13770	13043
60°	13653	13208	12147
65°	12932	12333	11098
70°	12001	11305	9930
75°	10298	9964	8509
80°	7803	8270	7712
85°	4132	6414	8588



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.0	3.3
10°-20°	1074.6	8.5
20°-30°	1586.7	12.5
30°-40°	1930.8	15.2
40°-50°	2055.2	16.2
50°-60°	1932.6	15.2
60°-70°	1528.7	12.0
70°-80°	954.0	7.5
80°-90°	423.6	3.3
90°-100°	233.4	1.8
100°-110°	170.4	1.3
110°-120°	131.7	1.0
120°-130°	113.0	0.9
130°-140°	79.6	0.6
140°-150°	42.9	0.3
150°-160°	15.8	0.1
160°-170°	2.9	0.0
170°-180°	0.1	0.0
0°-30°	3076.3	24.2
0°-40°	5007.2	39.5
0°-60°	8994.9	70.9
0°-90°	11901.2	93.8
90°-120°	535.4	4.2
90°-150°	771.0	6.1
90°-180°	790.0	6.2
0°-180°	12691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4716	4716	4716	4716	4716	
5°	4494	4490	4479	4521	4515	418
15°	3863	3836	3764	3756	3783	1089
25°	3400	3424	3425	3464	3442	1564
35°	2946	3034	3123	3152	3101	1842
45°	2474	2610	2729	2726	2710	1903
55°	1923	2103	2240	2251	2214	1716
65°	1325	1482	1635	1601	1558	1311
75°	683	833	980	986	908	726
85°	117	252	393	479	600	153
90°	3	119	250	364	498	6
95°	1	101	225	327	408	1
105°	1	84	185	247	242	1
115°	1	70	157	196	202	1
125°	2	57	143	199	215	2
135°	2	40	111	166	190	2
145°	3	20	70	114	132	2
155°	4	8	31	58	68	2
165°	4	3	7	14	19	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°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
2.5°	4666.2	4670.9	4677.5	4668.1	4674.6	4669.9	4676.5	4673.7	4668.1	4666.2	4655.8
5°	4494.2	4508.3	4501.7	4496.0	4499.8	4490.4	4504.5	4496.0	4488.5	4477.2	4479.1
7.5°	4314.6	4308.0	4313.7	4296.8	4293.9	4298.6	4293.0	4291.1	4294.9	4271.4	4261.0
10°	4134.1	4142.6	4126.6	4124.7	4119.1	4121.0	4111.6	4099.4	4077.7	4051.4	4031.7
12.5°	3997.8	3996.9	3996.9	3982.8	3964.9	3968.7	3952.7	3925.5	3908.5	3894.4	3886.9
15°	3863.4	3864.4	3852.1	3839.0	3837.1	3836.2	3832.4	3809.8	3790.1	3778.8	3763.8
17.5°	3741.2	3743.1	3741.2	3734.6	3731.8	3718.7	3720.5	3699.9	3672.6	3669.8	3673.5
20°	3610.6	3624.7	3633.1	3608.7	3609.6	3601.2	3605.9	3597.4	3586.1	3591.8	3594.6
22.5°	3503.4	3516.6	3513.7	3506.2	3510.9	3512.8	3513.7	3516.6	3518.4	3512.8	3514.7
25°	3400.0	3398.1	3400.0	3416.9	3416.9	3423.5	3423.5	3420.7	3419.7	3414.1	3425.4
27.5°	3277.8	3291.0	3303.2	3311.6	3311.6	3318.2	3313.5	3338.0	3347.4	3352.1	3365.2
30°	3166.9	3186.6	3192.3	3199.8	3227.0	3237.4	3244.9	3266.5	3271.2	3274.0	3284.4
32.5°	3065.4	3071.0	3077.6	3115.2	3140.6	3148.1	3155.6	3165.0	3180.0	3181.9	3195.1
35°	2946.0	2948.8	2978.9	3005.2	3023.1	3034.3	3050.3	3077.6	3098.3	3114.2	3122.7
37.5°	2822.8	2846.3	2868.9	2882.1	2920.6	2945.0	2967.6	2998.6	3005.2	3016.5	3027.8
40°	2699.7	2724.1	2734.5	2780.5	2823.8	2842.6	2858.6	2880.2	2891.5	2915.0	2927.2
42.5°	2599.1	2603.8	2621.7	2666.8	2703.5	2717.6	2740.1	2780.5	2810.6	2829.4	2826.6
45°	2474.1	2473.2	2511.7	2534.3	2581.3	2609.5	2637.7	2670.6	2699.7	2725.1	2728.8
47.5°	2336.9	2347.2	2375.4	2408.3	2473.2	2503.2	2521.1	2544.6	2578.4	2596.3	2611.3
50°	2192.1	2223.1	2235.3	2293.6	2342.5	2364.1	2389.5	2429.9	2465.6	2493.8	2506.1
52.5°	2058.6	2074.6	2113.1	2154.5	2202.4	2239.1	2258.8	2312.4	2346.3	2366.9	2394.2
55°	1923.3	1930.8	1975.9	2015.4	2068.0	2102.8	2126.3	2175.2	2197.7	2230.6	2240.0
57.5°	1778.5	1792.6	1827.4	1875.3	1925.1	1949.6	1966.5	2022.9	2056.7	2091.5	2096.2
60°	1630.9	1649.7	1678.9	1733.4	1768.2	1793.5	1818.9	1876.3	1911.0	1940.2	1957.1
62.5°	1475.8	1490.8	1527.5	1572.6	1610.2	1637.5	1669.5	1717.4	1751.2	1784.1	1799.2
65°	1325.4	1341.4	1374.3	1411.9	1457.9	1482.4	1510.6	1550.1	1592.4	1615.9	1634.7
67.5°	1175.0	1182.5	1213.5	1253.0	1301.9	1318.8	1347.0	1385.6	1440.1	1457.9	1475.8
70°	1017.1	1021.8	1047.2	1094.2	1130.8	1158.1	1175.0	1228.6	1266.2	1292.5	1310.4
72.5°	855.4	866.7	882.7	927.8	968.2	990.8	1019.9	1066.9	1102.6	1129.9	1137.4
75°	683.4	696.5	723.8	767.0	806.5	832.8	858.2	892.1	932.5	960.7	980.4
77.5°	521.7	541.4	561.2	597.8	647.7	671.2	691.8	737.0	775.5	802.8	814.0
80°	370.4	385.4	410.8	445.6	494.4	515.1	536.7	578.1	611.9	637.3	662.7
82.5°	241.6	243.5	277.3	309.3	352.5	372.2	392.9	434.3	469.1	492.6	516.1
85°	116.6	129.7	156.0	189.9	231.2	251.9	271.7	306.4	334.6	361.9	392.9
87.5°	36.7	45.1	74.3	107.2	141.9	160.7	177.7	210.6	238.8	267.0	297.0
90°	2.8	11.3	34.8	66.7	101.5	119.4	134.4	163.6	193.6	222.8	250.0
92.5°	0.9	8.5	30.1	60.2	92.1	107.2	122.2	151.3	179.5	208.7	237.8
95°	0.9	7.5	27.3	55.5	86.5	100.6	114.7	143.8	173.0	200.2	224.7
97.5°	0.9	7.5	26.3	52.6	80.8	94.9	109.0	138.2	165.4	191.8	214.3
100°	0.9	6.6	24.4	48.9	77.1	90.2	104.3	131.6	157.9	182.4	204.0
102.5°	0.9	5.6	22.6	47.0	73.3	86.5	100.6	126.0	150.4	173.0	194.6
105°	0.9	5.6	21.6	45.1	70.5	83.7	95.9	121.3	143.8	165.4	185.2
107.5°	0.9	4.7	20.7	42.3	67.7	79.9	92.1	116.6	138.2	158.9	176.7
110°	0.9	4.7	18.8	40.4	64.9	77.1	89.3	111.9	133.5	152.3	169.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	3.8	17.9	38.5	62.0	74.3	85.5	108.1	128.8	146.6	162.6
115°	0.9	3.8	16.9	36.7	59.2	70.5	82.7	104.3	124.1	141.9	157.0
117.5°	1.9	2.8	15.0	34.8	56.4	67.7	79.0	100.6	120.3	138.2	154.2
120°	1.9	2.8	14.1	32.9	53.6	64.9	75.2	96.8	116.6	134.4	151.3
122.5°	1.9	2.8	13.2	30.1	50.8	61.1	72.4	93.1	112.8	131.6	147.6
125°	1.9	2.8	11.3	28.2	47.9	57.3	67.7	88.4	108.1	126.0	142.9
127.5°	1.9	1.9	10.3	25.4	44.2	53.6	63.9	83.7	102.5	119.4	136.3
130°	1.9	1.9	8.5	22.6	40.4	49.8	59.2	79.0	95.9	112.8	128.8
132.5°	1.9	1.9	7.5	19.7	35.7	44.2	53.6	72.4	89.3	105.3	120.3
135°	1.9	1.9	5.6	16.9	32.0	39.5	47.9	64.9	80.8	96.8	110.9
137.5°	2.8	1.9	4.7	14.1	27.3	34.8	41.4	57.3	71.4	87.4	102.5
140°	2.8	2.8	3.8	11.3	22.6	29.1	34.8	48.9	63.0	77.1	91.2
142.5°	2.8	2.8	3.8	9.4	18.8	24.4	30.1	41.4	54.5	67.7	80.8
145°	2.8	2.8	2.8	7.5	15.0	19.7	24.4	35.7	47.0	58.3	69.6
147.5°	2.8	2.8	2.8	5.6	12.2	16.0	19.7	29.1	39.5	49.8	59.2
150°	3.8	2.8	2.8	4.7	9.4	12.2	16.0	23.5	32.0	40.4	48.9
152.5°	3.8	2.8	2.8	3.8	7.5	9.4	12.2	18.8	25.4	32.0	39.5
155°	3.8	2.8	2.8	3.8	5.6	7.5	9.4	14.1	19.7	25.4	31.0
157.5°	3.8	3.8	2.8	2.8	4.7	5.6	6.6	10.3	14.1	18.8	23.5
160°	3.8	3.8	2.8	2.8	3.8	3.8	4.7	7.5	10.3	13.2	16.9
162.5°	3.8	3.8	2.8	2.8	2.8	2.8	3.8	4.7	6.6	8.5	11.3
165°	3.8	3.8	3.8	2.8	2.8	2.8	2.8	2.8	3.8	5.6	6.6
167.5°	3.8	3.8	3.8	2.8	2.8	1.9	1.9	1.9	2.8	2.8	3.8
170°	4.7	3.8	3.8	2.8	2.8	1.9	1.9	1.9	1.9	1.9	1.9
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°	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0	4716.0
2.5°	4659.6	4663.4	4679.3	4683.1	4688.7	4686.9	4689.7	4689.7	4692.5	4693.4
5°	4489.5	4510.1	4521.4	4513.9	4521.4	4517.7	4518.6	4513.9	4512.0	4514.8
7.5°	4235.7	4234.7	4236.6	4234.7	4235.7	4235.7	4243.2	4246.0	4236.6	4235.7
10°	4017.6	4021.3	4029.8	4032.6	4028.9	4024.2	4034.5	4037.3	4046.7	4053.3
12.5°	3875.6	3859.7	3883.2	3899.1	3901.0	3906.7	3906.7	3911.4	3902.0	3885.0
15°	3764.7	3776.0	3775.1	3757.2	3756.3	3757.2	3770.4	3762.8	3771.3	3782.6
17.5°	3667.9	3663.2	3675.4	3688.6	3693.3	3699.9	3696.1	3692.3	3692.3	3690.5
20°	3579.5	3604.9	3618.1	3612.4	3616.2	3624.7	3633.1	3635.0	3631.2	3626.5
22.5°	3520.3	3531.6	3544.8	3573.0	3563.6	3564.5	3546.6	3540.1	3533.5	3528.8
25°	3432.9	3453.6	3481.8	3469.6	3463.9	3463.0	3452.6	3452.6	3444.2	3442.3
27.5°	3369.9	3396.2	3374.6	3386.8	3386.8	3393.4	3389.7	3385.0	3381.2	3381.2
30°	3306.0	3290.0	3303.2	3314.5	3310.7	3306.9	3307.9	3294.7	3298.5	3293.8
32.5°	3204.5	3206.4	3225.2	3231.7	3233.6	3235.5	3228.0	3224.2	3220.5	3210.1
35°	3127.4	3146.2	3136.8	3150.9	3151.8	3127.4	3128.3	3118.0	3109.5	3101.1
37.5°	3039.0	3033.4	3059.7	3051.3	3037.2	3035.3	3026.8	3035.3	3032.5	3034.3
40°	2944.1	2959.1	2948.8	2948.8	2945.0	2953.5	2952.6	2946.0	2942.2	2937.5
42.5°	2852.9	2853.9	2842.6	2849.2	2848.2	2846.3	2836.9	2830.4	2833.2	2818.1
45°	2758.0	2730.7	2751.4	2733.5	2726.0	2734.5	2721.3	2717.6	2706.3	2710.0
47.5°	2623.6	2619.8	2621.7	2607.6	2604.8	2598.2	2579.4	2570.0	2566.2	2567.2
50°	2499.5	2507.0	2502.3	2496.7	2489.1	2478.8	2476.0	2479.7	2488.2	2476.9
52.5°	2390.4	2396.1	2392.3	2376.3	2369.8	2377.3	2383.9	2362.2	2353.8	2351.9
55°	2249.4	2270.1	2252.3	2259.8	2251.3	2251.3	2225.0	2223.1	2220.3	2213.7
57.5°	2112.2	2115.0	2120.7	2131.0	2105.6	2102.8	2100.0	2082.1	2067.1	2064.3
60°	1973.1	1965.6	1973.1	1958.0	1954.3	1952.4	1923.3	1900.7	1885.7	1890.4
62.5°	1811.4	1820.8	1807.6	1788.8	1783.2	1771.9	1740.0	1745.6	1740.0	1734.3
65°	1635.6	1646.0	1630.0	1609.3	1600.8	1593.3	1587.7	1567.0	1567.9	1557.6
67.5°	1477.7	1469.2	1469.2	1445.7	1442.9	1442.9	1419.4	1404.4	1403.4	1394.0
70°	1312.2	1316.9	1304.7	1296.3	1301.0	1285.0	1262.4	1254.0	1233.3	1231.4
72.5°	1148.7	1162.8	1148.7	1147.7	1138.3	1133.6	1109.2	1096.0	1080.1	1067.8
75°	986.1	999.2	996.4	990.8	986.1	976.7	958.8	932.5	916.5	908.0
77.5°	831.9	837.5	849.8	842.2	845.1	835.7	821.6	800.9	784.9	782.1
80°	678.7	691.8	703.1	705.0	705.0	704.1	691.8	685.3	687.1	683.4
82.5°	538.6	553.7	571.5	579.0	584.7	586.6	595.0	604.4	620.4	629.8
85°	414.5	437.1	455.0	470.0	479.4	489.7	510.4	536.7	576.2	599.7
87.5°	322.4	346.9	369.4	395.7	411.7	422.1	446.5	485.0	529.2	557.4
90°	276.4	300.8	329.0	353.4	363.8	377.9	409.8	440.9	478.5	498.2
92.5°	260.4	286.7	309.3	331.8	345.0	356.3	381.6	402.3	428.6	442.7
95°	248.2	269.8	295.2	315.8	327.1	337.5	353.4	373.2	394.8	408.0
97.5°	236.9	259.4	279.2	298.0	307.4	314.0	333.7	352.5	368.5	372.2
100°	225.6	246.3	262.3	278.2	288.6	296.1	312.1	323.4	327.1	328.1
102.5°	214.3	232.2	248.2	261.3	268.8	275.4	283.9	290.5	291.4	288.6
105°	202.1	218.1	232.2	244.4	247.2	251.0	253.8	249.1	245.3	241.6
107.5°	191.8	205.9	217.1	223.7	224.7	225.6	223.7	220.0	216.2	215.3
110°	183.3	195.5	203.0	205.9	206.8	206.8	204.0	201.2	199.3	197.4





TEST NUMBER: P241521

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	175.8	186.1	192.7	196.5	197.4	198.3	198.3	197.4	196.5	195.5
115°	170.1	181.4	188.9	193.6	196.5	198.3	201.2	202.1	202.1	202.1
117.5°	167.3	179.5	188.9	196.5	200.2	203.0	206.8	208.7	208.7	207.7
120°	165.4	178.6	188.9	199.3	203.0	205.9	210.6	213.4	213.4	212.4
122.5°	162.6	176.7	188.0	198.3	203.0	206.8	212.4	215.3	215.3	215.3
125°	157.9	173.0	184.2	195.5	199.3	204.0	209.6	213.4	214.3	215.3
127.5°	151.3	166.4	178.6	189.9	194.6	198.3	204.9	209.6	211.5	212.4
130°	143.8	157.9	170.1	182.4	187.1	191.8	198.3	203.0	205.9	206.8
132.5°	134.4	148.5	160.7	172.0	177.7	181.4	189.9	194.6	198.3	198.3
135°	125.0	138.2	149.5	160.7	166.4	171.1	179.5	185.2	188.9	189.9
137.5°	114.7	126.9	138.2	149.5	154.2	158.9	166.4	173.0	177.7	178.6
140°	104.3	115.6	126.9	137.2	141.9	145.7	153.2	159.8	163.6	164.5
142.5°	93.1	104.3	114.7	124.1	127.8	131.6	139.1	144.8	146.6	148.5
145°	81.8	92.1	101.5	110.0	113.7	117.5	123.1	128.8	130.7	132.5
147.5°	69.6	79.9	88.4	95.9	99.6	102.5	108.1	111.9	115.6	115.6
150°	57.3	66.7	75.2	82.7	85.5	88.4	92.1	95.9	97.8	99.6
152.5°	46.1	53.6	62.0	69.6	71.4	73.3	78.0	79.9	82.7	83.7
155°	36.7	42.3	48.9	55.5	58.3	60.2	63.9	65.8	67.7	67.7
157.5°	28.2	32.9	36.7	42.3	45.1	47.9	50.8	52.6	53.6	53.6
160°	19.7	23.5	27.3	31.0	32.9	34.8	37.6	38.5	40.4	40.4
162.5°	13.2	16.0	18.8	21.6	22.6	23.5	26.3	28.2	29.1	29.1
165°	8.5	9.4	11.3	13.2	14.1	15.0	16.9	17.9	18.8	18.8
167.5°	3.8	4.7	5.6	6.6	6.6	7.5	8.5	10.3	10.3	10.3
170°	1.9	1.9	1.9	1.9	2.8	2.8	2.8	3.8	3.8	3.8
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)