

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: P241380

Luminaire Tested: **FVS8M-3-LD4-50-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-28)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-3-LD4-50-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
3FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (252) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

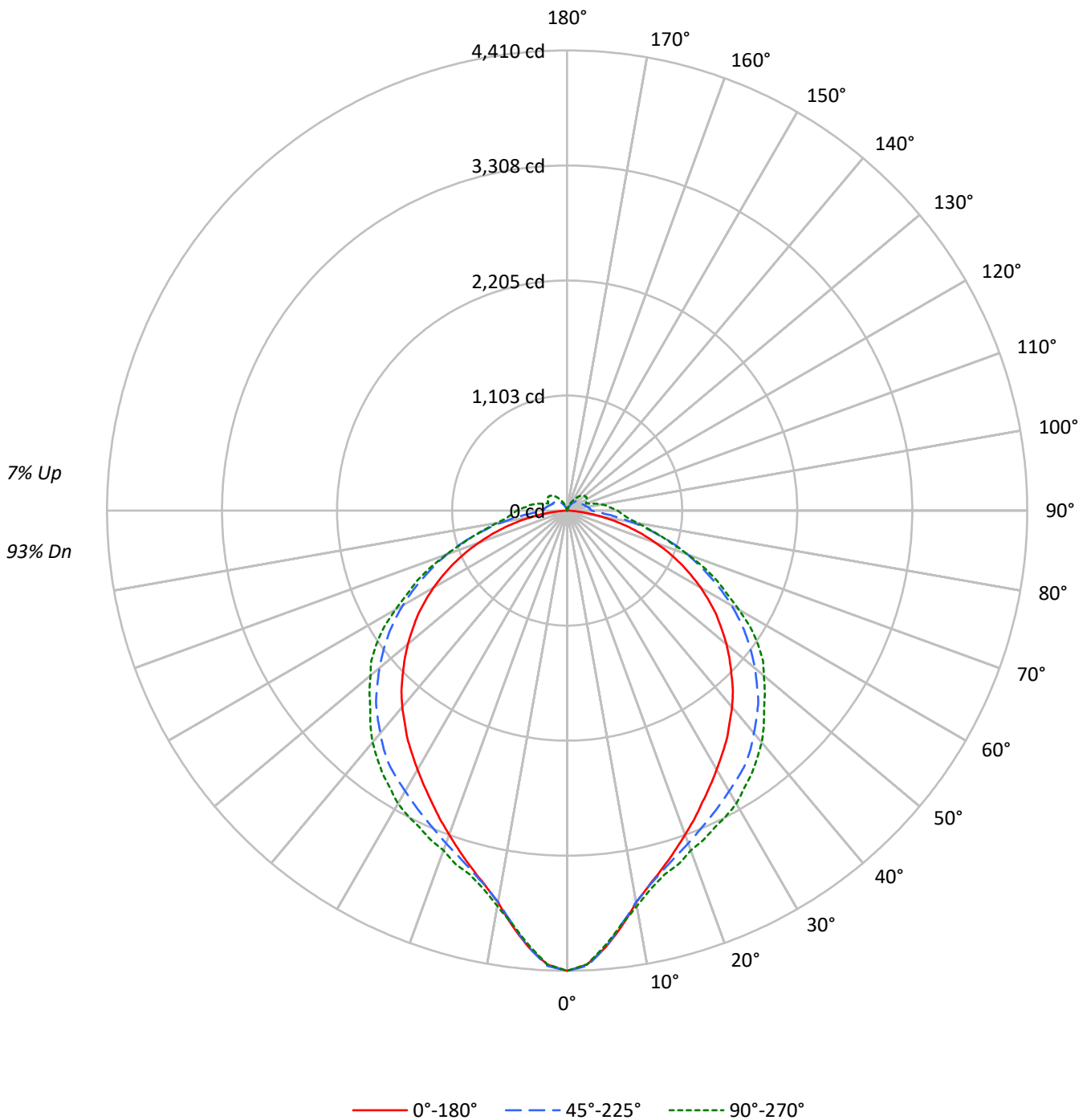
Lumens per Lamp: N/A  
Luminaire Lumens: 12018.0 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 105  
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-3-LD4-50-3HI-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	93	103	98	94	90	93	90	86	88	85	83	83	81	79	76
2	96	88	81	75	93	85	79	73	81	75	71	76	72	68	72	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	53	48	57	51	47	45
5	74	61	51	45	71	59	50	44	56	49	43	53	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	32	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21

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

	0°	45°	90°
0°	25755	25755	25755
5°	24530	24225	24043
10°	22404	21828	21948
15°	21137	20471	20577
20°	20163	19684	19897
25°	19359	19157	19526
30°	18772	18806	19348
35°	18366	18646	18961
40°	17970	18227	18587
45°	17510	17890	17971
50°	17071	17304	17613
55°	16588	16689	17172
60°	15867	15863	15951
65°	14906	14786	14745
70°	13468	13622	12963
75°	11606	11889	11205
80°	8622	9860	10028
85°	4441	7532	10292



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	388.2	3.2
10°-20°	1010.1	8.4
20°-30°	1495.0	12.4
30°-40°	1830.0	15.2
40°-50°	1945.9	16.2
50°-60°	1824.3	15.2
60°-70°	1436.4	12.0
70°-80°	891.1	7.4
80°-90°	396.2	3.3
90°-100°	224.9	1.9
100°-110°	168.9	1.4
110°-120°	128.9	1.1
120°-130°	115.4	1.0
130°-140°	87.5	0.7
140°-150°	50.6	0.4
150°-160°	20.0	0.2
160°-170°	4.4	0.0
170°-180°	0.1	0.0
0°-30°	2893.3	24.1
0°-40°	4723.3	39.3
0°-60°	8493.5	70.7
0°-90°	11217.2	93.3
90°-120°	522.8	4.3
90°-150°	776.3	6.5
90°-180°	801.0	6.7
0°-180°	12018.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4410	4410	4410	4410	4410	
5°	4204	4207	4204	4185	4183	389
15°	3544	3535	3564	3602	3610	999
25°	3076	3154	3245	3336	3350	1420
35°	2668	2790	2974	3070	3080	1668
45°	2229	2391	2590	2656	2668	1721
55°	1748	1902	2098	2193	2231	1558
65°	1197	1331	1519	1562	1584	1182
75°	612	737	912	943	915	647
85°	105	222	364	463	550	135
90°	2	107	235	339	482	5
95°	1	98	218	309	395	1
105°	1	83	181	243	257	1
115°	1	73	154	184	202	1
125°	1	63	146	198	224	1
135°	2	50	126	177	203	2
145°	3	30	89	128	145	2
155°	3	12	43	71	79	1
165°	4	4	12	23	27	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241380

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5
2.5°	4354.3	4361.6	4361.6	4362.6	4360.5	4366.8	4364.7	4365.7	4367.8	4370.9	4367.8
5°	4203.5	4207.7	4203.5	4207.7	4204.5	4206.6	4208.7	4203.5	4206.6	4198.3	4203.5
7.5°	4015.3	4011.1	4002.8	3995.5	3994.5	3994.5	3996.6	4001.8	4004.9	4001.8	3998.6
10°	3812.5	3818.7	3817.7	3812.5	3812.5	3812.5	3817.7	3815.6	3807.3	3809.4	3808.3
12.5°	3666.9	3670.0	3663.8	3660.7	3653.4	3660.7	3655.5	3652.3	3665.9	3672.1	3671.1
15°	3544.2	3540.0	3540.0	3534.8	3531.7	3534.8	3536.9	3540.0	3548.3	3557.7	3563.9
17.5°	3422.5	3425.6	3423.5	3423.5	3427.7	3425.6	3435.0	3447.5	3462.0	3469.3	3471.4
20°	3305.0	3307.1	3314.3	3314.3	3323.7	3331.0	3339.3	3353.9	3364.3	3381.9	3393.4
22.5°	3192.7	3192.7	3202.0	3216.6	3228.0	3239.5	3251.9	3271.7	3280.0	3299.8	3315.4
25°	3076.2	3082.4	3098.0	3114.7	3136.5	3154.2	3166.7	3183.3	3209.3	3223.9	3244.7
27.5°	2970.1	2983.6	2993.0	3020.0	3046.0	3062.7	3078.3	3102.2	3125.1	3150.0	3174.0
30°	2866.1	2874.4	2890.0	2921.2	2957.6	2975.3	2983.6	3019.0	3042.9	3080.4	3104.3
32.5°	2764.2	2774.6	2795.4	2820.4	2863.0	2880.7	2898.4	2937.9	2968.0	3004.4	3039.8
35°	2668.5	2669.6	2698.7	2730.9	2769.4	2790.2	2807.9	2848.4	2891.1	2930.6	2974.3
37.5°	2557.3	2571.8	2592.6	2630.1	2668.5	2695.6	2718.4	2759.0	2812.0	2854.7	2885.9
40°	2458.5	2469.9	2490.7	2526.1	2566.6	2594.7	2619.7	2672.7	2721.6	2762.1	2784.0
42.5°	2351.3	2354.5	2384.6	2425.2	2467.8	2492.8	2520.9	2576.0	2618.6	2654.0	2689.3
45°	2228.6	2245.3	2275.4	2314.9	2366.9	2390.9	2420.0	2472.0	2519.8	2555.2	2590.5
47.5°	2111.1	2127.8	2157.9	2202.6	2254.6	2277.5	2306.6	2351.3	2409.6	2444.9	2465.7
50°	1993.6	2011.3	2042.5	2084.1	2136.1	2156.9	2181.8	2241.1	2285.8	2320.1	2349.3
52.5°	1866.7	1886.5	1915.6	1963.4	2011.3	2036.2	2053.9	2110.1	2155.8	2201.6	2223.4
55°	1748.2	1752.3	1787.7	1832.4	1877.1	1902.1	1925.0	1977.0	2025.8	2063.3	2097.6
57.5°	1613.0	1621.3	1650.4	1701.4	1741.9	1766.9	1788.7	1842.8	1881.3	1926.0	1962.4
60°	1478.8	1487.1	1514.2	1551.6	1595.3	1623.4	1646.3	1699.3	1743.0	1784.6	1818.9
62.5°	1338.4	1351.9	1375.9	1410.2	1453.9	1480.9	1502.7	1551.6	1597.4	1629.6	1671.2
65°	1197.0	1201.2	1230.3	1268.7	1308.3	1331.1	1357.1	1400.8	1443.5	1484.0	1519.4
67.5°	1051.4	1058.7	1079.5	1119.0	1160.6	1186.6	1208.4	1251.1	1299.9	1336.3	1369.6
70°	899.6	912.0	934.9	973.4	1014.0	1038.9	1051.4	1097.2	1139.8	1188.7	1227.1
72.5°	757.1	767.5	794.5	820.5	864.2	884.0	906.8	947.4	992.1	1032.7	1075.3
75°	612.5	626.1	641.7	674.9	712.4	737.3	764.4	795.6	843.4	881.9	912.0
77.5°	471.1	476.3	502.3	537.7	572.0	594.9	608.4	648.9	695.7	738.4	766.4
80°	330.7	341.1	369.2	401.4	429.5	455.5	470.1	508.5	556.4	595.9	618.8
82.5°	208.0	218.4	245.4	273.5	307.8	330.7	345.3	386.9	429.5	463.8	485.7
85°	105.0	117.5	140.4	165.4	204.9	221.5	238.2	273.5	316.1	339.0	364.0
87.5°	34.3	43.7	66.6	92.6	124.8	143.5	158.1	196.6	226.7	254.8	277.7
90°	2.1	11.4	32.2	60.3	91.5	107.1	124.8	157.0	186.2	212.2	235.0
92.5°	1.0	9.4	29.1	56.2	86.3	101.9	117.5	147.7	173.7	198.6	224.6
95°	1.0	8.3	28.1	54.1	83.2	97.8	112.3	140.4	167.4	193.4	218.4
97.5°	1.0	7.3	26.0	52.0	80.1	93.6	107.1	134.2	161.2	186.2	209.0
100°	1.0	7.3	25.0	49.9	75.9	89.4	103.0	130.0	153.9	177.8	199.7
102.5°	1.0	7.3	23.9	47.8	72.8	85.3	98.8	123.8	147.7	170.6	190.3
105°	1.0	6.2	22.9	44.7	69.7	83.2	94.6	118.6	141.4	161.2	181.0
107.5°	1.0	6.2	21.8	43.7	67.6	79.0	91.5	114.4	135.2	155.0	172.6
110°	1.0	5.2	20.8	41.6	65.5	77.0	88.4	110.2	131.0	148.7	164.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	5.2	19.8	39.5	63.4	74.9	86.3	108.2	126.9	144.6	159.1
115°	1.0	5.2	18.7	38.5	61.4	72.8	84.2	105.0	123.8	140.4	153.9
117.5°	1.0	4.2	17.7	37.4	59.3	70.7	82.2	101.9	121.7	137.3	150.8
120°	1.0	4.2	16.6	35.4	57.2	68.6	79.0	99.8	119.6	135.2	148.7
122.5°	1.0	4.2	15.6	34.3	55.1	65.5	77.0	97.8	116.5	134.2	147.7
125°	1.0	3.1	15.6	33.3	53.0	63.4	74.9	94.6	114.4	131.0	145.6
127.5°	2.1	3.1	14.6	31.2	51.0	60.3	70.7	91.5	110.2	127.9	141.4
130°	2.1	3.1	12.5	29.1	47.8	57.2	67.6	87.4	106.1	122.7	137.3
132.5°	2.1	2.1	11.4	27.0	44.7	54.1	63.4	83.2	100.9	117.5	132.1
135°	2.1	2.1	10.4	23.9	41.6	49.9	59.3	78.0	95.7	111.3	125.8
137.5°	2.1	2.1	8.3	21.8	36.4	44.7	54.1	71.8	88.4	103.0	118.6
140°	2.1	2.1	7.3	18.7	32.2	39.5	47.8	64.5	81.1	95.7	109.2
142.5°	2.1	2.1	6.2	15.6	28.1	34.3	41.6	57.2	72.8	86.3	99.8
145°	3.1	2.1	5.2	13.5	23.9	30.2	35.4	49.9	63.4	75.9	89.4
147.5°	3.1	2.1	4.2	10.4	19.8	25.0	30.2	42.6	54.1	65.5	78.0
150°	3.1	3.1	3.1	8.3	15.6	19.8	25.0	35.4	44.7	55.1	65.5
152.5°	3.1	3.1	3.1	7.3	12.5	16.6	19.8	28.1	37.4	45.8	54.1
155°	3.1	3.1	3.1	5.2	9.4	12.5	15.6	21.8	29.1	36.4	42.6
157.5°	3.1	3.1	3.1	4.2	7.3	9.4	11.4	16.6	22.9	28.1	33.3
160°	4.2	3.1	3.1	3.1	5.2	7.3	9.4	12.5	16.6	20.8	25.0
162.5°	4.2	3.1	3.1	3.1	4.2	5.2	6.2	9.4	12.5	15.6	18.7
165°	4.2	4.2	3.1	2.1	3.1	4.2	4.2	6.2	8.3	10.4	12.5
167.5°	4.2	4.2	3.1	3.1	2.1	2.1	3.1	4.2	5.2	6.2	7.3
170°	4.2	4.2	3.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	4.2
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°	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5	4410.5
2.5°	4361.6	4359.5	4355.3	4355.3	4355.3	4352.2	4351.2	4346.0	4347.0	4352.2
5°	4190.0	4196.2	4183.7	4186.9	4184.8	4186.9	4186.9	4187.9	4180.6	4182.7
7.5°	3991.4	3991.4	3988.2	3995.5	3988.2	3990.3	3994.5	3994.5	3995.5	3999.7
10°	3811.4	3814.6	3818.7	3827.0	3830.2	3834.3	3832.2	3844.7	3845.8	3848.9
12.5°	3678.3	3688.7	3688.7	3699.1	3701.2	3701.2	3712.6	3713.7	3715.8	3709.5
15°	3570.2	3581.6	3591.0	3602.4	3602.4	3611.8	3628.4	3611.8	3620.1	3609.7
17.5°	3487.0	3497.4	3510.9	3515.1	3520.3	3527.5	3540.0	3544.2	3549.4	3553.5
20°	3406.9	3420.4	3436.0	3454.7	3464.1	3461.0	3453.7	3470.3	3461.0	3465.1
22.5°	3334.1	3358.0	3365.3	3376.7	3389.2	3397.5	3407.9	3417.3	3418.3	3416.3
25°	3264.4	3284.2	3311.2	3334.1	3336.2	3338.3	3338.3	3341.4	3346.6	3349.7
27.5°	3197.9	3232.2	3248.8	3271.7	3283.1	3296.7	3315.4	3309.1	3307.1	3299.8
30°	3137.6	3168.8	3203.1	3234.3	3236.3	3237.4	3231.1	3235.3	3235.3	3243.6
32.5°	3076.2	3113.6	3137.6	3142.8	3151.1	3162.5	3166.7	3160.4	3158.4	3155.2
35°	3001.3	3032.5	3037.7	3062.7	3070.0	3066.8	3060.6	3063.7	3070.0	3080.4
37.5°	2910.8	2928.5	2967.0	2970.1	2977.4	2985.7	3001.3	2997.2	2995.1	2990.9
40°	2815.2	2845.3	2865.1	2888.0	2894.2	2892.1	2882.8	2889.0	2896.3	2900.4
42.5°	2717.4	2741.3	2766.3	2772.5	2774.6	2779.8	2789.2	2800.6	2794.4	2790.2
45°	2611.3	2629.0	2637.3	2650.9	2656.1	2657.1	2656.1	2657.1	2664.4	2667.5
47.5°	2490.7	2511.5	2515.7	2529.2	2529.2	2535.4	2548.9	2558.3	2563.5	2569.7
50°	2366.9	2381.5	2406.5	2413.7	2425.2	2438.7	2438.7	2443.9	2452.2	2460.5
52.5°	2252.5	2270.2	2286.9	2311.8	2311.8	2316.0	2329.5	2349.3	2359.7	2365.9
55°	2118.4	2143.4	2172.5	2189.1	2193.3	2206.8	2219.3	2222.4	2224.5	2230.7
57.5°	1982.2	2012.3	2037.3	2066.4	2066.4	2066.4	2076.8	2084.1	2090.3	2083.0
60°	1849.0	1873.0	1892.7	1910.4	1901.0	1910.4	1912.5	1903.1	1899.0	1900.0
62.5°	1702.4	1725.3	1737.8	1734.6	1733.6	1733.6	1728.4	1720.1	1723.2	1724.2
65°	1558.9	1565.1	1570.3	1572.4	1562.0	1558.9	1562.0	1570.3	1571.4	1583.9
67.5°	1399.8	1410.2	1407.1	1411.2	1408.1	1408.1	1402.9	1401.9	1390.4	1410.2
70°	1246.9	1253.1	1261.5	1260.4	1255.2	1246.9	1231.3	1229.2	1220.9	1230.3
72.5°	1086.8	1105.5	1104.4	1102.4	1098.2	1090.9	1073.2	1067.0	1057.6	1055.6
75°	934.9	945.3	950.5	950.5	943.2	941.2	930.8	921.4	918.3	915.2
77.5°	785.2	799.7	804.9	807.0	801.8	804.9	796.6	788.3	784.1	791.4
80°	644.8	653.1	664.5	673.9	679.1	677.0	677.0	679.1	676.0	680.1
82.5°	506.5	523.1	542.9	550.1	561.6	565.7	575.1	586.5	594.9	598.0
85°	387.9	409.7	431.6	450.3	462.8	475.3	497.1	521.0	539.7	550.1
87.5°	304.7	327.6	353.6	378.5	387.9	396.2	413.9	446.1	486.7	512.7
90°	262.1	290.1	308.9	326.5	339.0	349.4	377.5	412.9	458.6	481.5
92.5°	250.6	269.3	290.1	310.9	324.5	336.9	361.9	391.0	421.2	439.9
95°	238.2	260.0	282.9	299.5	308.9	319.3	339.0	360.9	384.8	395.2
97.5°	230.9	251.7	268.3	284.9	294.3	304.7	323.4	345.3	365.0	374.4
100°	219.4	237.1	253.7	270.4	279.7	288.1	306.8	323.4	332.8	335.9
102.5°	208.0	224.6	241.3	255.8	263.1	270.4	282.9	293.3	295.3	298.5
105°	198.6	213.2	225.7	238.2	243.4	248.5	256.9	257.9	257.9	256.9
107.5°	188.2	200.7	211.1	218.4	220.5	222.6	224.6	222.6	221.5	221.5
110°	178.9	188.2	195.5	199.7	200.7	201.8	200.7	200.7	201.8	200.7





TEST NUMBER: P241380

CATALOG NUMBER: FVS8M-3-LD4-50-3HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	170.6	178.9	184.1	186.2	187.2	188.2	190.3	192.4	194.5	195.5
115°	164.3	171.6	176.8	182.0	184.1	186.2	191.4	196.6	200.7	201.8
117.5°	161.2	169.5	177.8	184.1	188.2	191.4	198.6	205.9	210.1	211.1
120°	161.2	171.6	181.0	189.3	193.4	197.6	205.9	213.2	217.4	219.4
122.5°	160.2	172.6	183.0	192.4	196.6	200.7	209.0	216.3	221.5	223.6
125°	159.1	171.6	183.0	193.4	197.6	201.8	210.1	216.3	221.5	223.6
127.5°	155.0	168.5	179.9	190.3	195.5	200.7	208.0	214.2	219.4	221.5
130°	150.8	163.3	174.7	186.2	191.4	196.6	204.9	211.1	216.3	218.4
132.5°	144.6	158.1	169.5	179.9	185.1	190.3	198.6	205.9	210.1	212.2
135°	138.3	151.8	162.2	171.6	176.8	182.0	190.3	196.6	201.8	202.8
137.5°	131.0	142.5	153.9	163.3	167.4	171.6	178.9	186.2	189.3	191.4
140°	121.7	133.1	143.5	151.8	156.0	160.2	166.4	171.6	175.8	177.8
142.5°	112.3	122.7	131.0	139.4	143.5	145.6	151.8	157.0	160.2	161.2
145°	100.9	110.2	118.6	125.8	127.9	131.0	136.2	140.4	142.5	144.6
147.5°	88.4	96.7	105.0	111.3	114.4	116.5	121.7	124.8	126.9	127.9
150°	75.9	84.2	91.5	96.7	98.8	101.9	105.0	109.2	110.2	111.3
152.5°	62.4	70.7	77.0	83.2	85.3	86.3	90.5	92.6	94.6	94.6
155°	51.0	57.2	63.4	68.6	70.7	71.8	74.9	77.0	78.0	79.0
157.5°	39.5	44.7	51.0	56.2	57.2	58.2	61.4	62.4	63.4	64.5
160°	30.2	34.3	38.5	42.6	44.7	46.8	48.9	49.9	51.0	49.9
162.5°	21.8	25.0	28.1	31.2	33.3	35.4	37.4	38.5	38.5	38.5
165°	14.6	17.7	19.8	21.8	22.9	23.9	27.0	27.0	27.0	27.0
167.5°	9.4	10.4	11.4	13.5	13.5	14.6	16.6	17.7	17.7	17.7
170°	4.2	5.2	6.2	6.2	7.3	7.3	8.3	9.4	9.4	8.3
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)