

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: P241377

Luminaire Tested: **FVS8M-3-LD4-30-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241377  
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-LD4-30-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
3FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (252) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

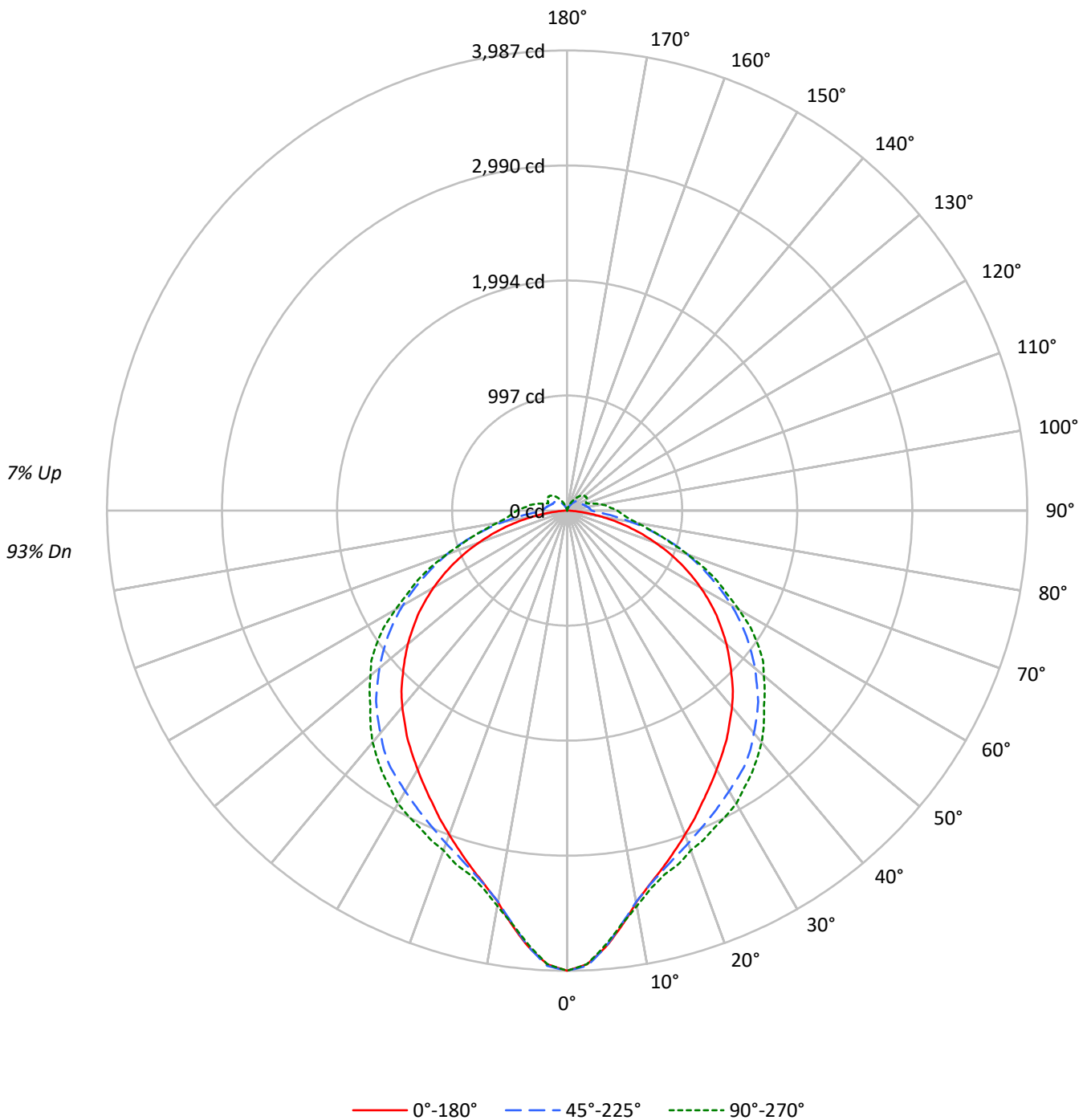
Lumens per Lamp: N/A  
Luminaire Lumens: 10863.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')  
CIE Type: Direct

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-LD4-30-3HI-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	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					93			
1	106	101	97	93	103	98	94	90	93	90	86	88	85	83	83	81	79	76					76			
2	96	88	81	75	93	85	79	73	81	75	71	76	72	68	72	69	66	63					63			
3	88	77	68	62	85	75	67	61	71	64	59	67	62	57	64	59	55	53					53			
4	80	68	59	52	77	66	58	51	63	56	50	60	53	48	57	51	47	45					45			
5	74	61	51	45	71	59	50	44	56	49	43	53	47	42	51	45	41	39					39			
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34					34			
7	63	49	40	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30					30			
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	28	26					26			
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24					24			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21					21			

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

	0°	45°	90°
0°	23279	23279	23279
5°	22173	21897	21732
10°	20251	19730	19839
15°	19106	18504	18600
20°	18225	17793	17985
25°	17499	17315	17650
30°	16968	16998	17489
35°	16601	16854	17138
40°	16243	16475	16801
45°	15827	16171	16243
50°	15431	15641	15921
55°	14994	15085	15522
60°	14342	14339	14418
65°	13474	13365	13327
70°	12173	12314	11717
75°	10492	10747	10128
80°	7793	8912	9065
85°	4014	6808	9304



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	350.9	3.2
10°-20°	913.0	8.4
20°-30°	1351.3	12.4
30°-40°	1654.1	15.2
40°-50°	1758.8	16.2
50°-60°	1648.9	15.2
60°-70°	1298.4	12.0
70°-80°	805.5	7.4
80°-90°	358.1	3.3
90°-100°	203.3	1.9
100°-110°	152.7	1.4
110°-120°	116.5	1.1
120°-130°	104.3	1.0
130°-140°	79.1	0.7
140°-150°	45.7	0.4
150°-160°	18.1	0.2
160°-170°	4.0	0.0
170°-180°	0.1	0.0
0°-30°	2615.3	24.1
0°-40°	4269.4	39.3
0°-60°	7677.2	70.7
0°-90°	10139.2	93.3
90°-120°	472.5	4.3
90°-150°	701.6	6.5
90°-180°	724.0	6.7
0°-180°	10863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3987	3987	3987	3987	3987	
5°	3800	3802	3800	3783	3781	351
15°	3204	3195	3221	3256	3263	903
25°	2781	2851	2933	3016	3028	1284
35°	2412	2522	2688	2775	2784	1508
45°	2014	2161	2342	2401	2411	1556
55°	1580	1719	1896	1982	2016	1408
65°	1082	1203	1373	1412	1432	1068
75°	554	666	824	853	827	585
85°	95	200	329	418	497	122
90°	2	97	212	306	435	5
95°	1	88	197	279	357	1
105°	1	75	164	220	232	1
115°	1	66	139	166	182	1
125°	1	57	132	179	202	1
135°	2	45	114	160	183	1
145°	3	27	81	116	131	2
155°	3	11	38	64	71	1
165°	4	4	11	21	24	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241377

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6
2.5°	3935.8	3942.4	3942.4	3943.3	3941.5	3947.1	3945.2	3946.2	3948.0	3950.9	3948.0
5°	3799.5	3803.3	3799.5	3803.3	3800.5	3802.3	3804.2	3799.5	3802.3	3794.8	3799.5
7.5°	3629.4	3625.6	3618.1	3611.5	3610.6	3610.6	3612.5	3617.2	3620.0	3617.2	3614.3
10°	3446.1	3451.7	3450.8	3446.1	3446.1	3446.1	3450.8	3448.9	3441.4	3443.3	3442.3
12.5°	3314.5	3317.3	3311.7	3308.8	3302.3	3308.8	3304.1	3301.3	3313.5	3319.2	3318.2
15°	3203.6	3199.8	3199.8	3195.1	3192.3	3195.1	3197.0	3199.8	3207.3	3215.8	3221.4
17.5°	3093.6	3096.4	3094.5	3094.5	3098.3	3096.4	3104.9	3116.1	3129.3	3135.9	3137.8
20°	2987.4	2989.2	2995.8	2995.8	3004.3	3010.9	3018.4	3031.5	3040.9	3056.9	3067.3
22.5°	2885.8	2885.8	2894.3	2907.5	2917.8	2928.1	2939.4	2957.3	2964.8	2982.7	2996.8
25°	2780.6	2786.2	2800.3	2815.3	2835.1	2851.1	2862.3	2877.4	2900.9	2914.0	2932.8
27.5°	2684.7	2696.9	2705.4	2729.8	2753.3	2768.3	2782.4	2804.1	2824.7	2847.3	2868.9
30°	2590.7	2598.2	2612.3	2640.5	2673.4	2689.4	2696.9	2728.9	2750.5	2784.3	2805.9
32.5°	2498.6	2508.0	2526.8	2549.3	2587.9	2603.8	2619.8	2655.5	2682.8	2715.7	2747.7
35°	2412.1	2413.0	2439.3	2468.5	2503.3	2522.1	2538.0	2574.7	2613.2	2649.0	2688.4
37.5°	2311.5	2324.6	2343.4	2377.3	2412.1	2436.5	2457.2	2493.9	2541.8	2580.3	2608.5
40°	2222.2	2232.5	2251.3	2283.3	2319.9	2345.3	2367.9	2415.8	2460.0	2496.7	2516.4
42.5°	2125.4	2128.2	2155.4	2192.1	2230.6	2253.2	2278.6	2328.4	2366.9	2398.9	2430.9
45°	2014.4	2029.5	2056.7	2092.5	2139.5	2161.1	2187.4	2234.4	2277.6	2309.6	2341.6
47.5°	1908.2	1923.3	1950.5	1990.9	2037.9	2058.6	2084.9	2125.4	2178.0	2210.0	2228.8
50°	1802.0	1818.0	1846.2	1883.8	1930.8	1949.6	1972.1	2025.7	2066.1	2097.2	2123.5
52.5°	1687.3	1705.2	1731.5	1774.7	1818.0	1840.5	1856.5	1907.3	1948.6	1990.0	2009.7
55°	1580.2	1583.9	1615.9	1656.3	1696.7	1719.3	1740.0	1787.0	1831.1	1865.0	1896.0
57.5°	1458.0	1465.5	1491.8	1537.9	1574.5	1597.1	1616.8	1665.7	1700.5	1740.9	1773.8
60°	1336.7	1344.2	1368.7	1402.5	1442.0	1467.4	1488.0	1536.0	1575.5	1613.1	1644.1
62.5°	1209.8	1222.0	1243.6	1274.7	1314.1	1338.6	1358.3	1402.5	1443.9	1473.0	1510.6
65°	1082.0	1085.7	1112.0	1146.8	1182.5	1203.2	1226.7	1266.2	1304.7	1341.4	1373.4
67.5°	950.4	956.9	975.7	1011.5	1049.1	1072.6	1092.3	1130.8	1175.0	1207.9	1238.0
70°	813.1	824.4	845.1	879.9	916.5	939.1	950.4	991.7	1030.3	1074.4	1109.2
72.5°	684.3	693.7	718.2	741.7	781.1	799.0	819.7	856.4	896.8	933.4	972.0
75°	553.7	565.9	580.0	610.1	643.9	666.5	690.9	719.1	762.3	797.1	824.4
77.5°	425.8	430.5	454.0	486.0	517.0	537.7	549.9	586.6	628.9	667.4	692.8
80°	298.9	308.3	333.7	362.8	388.2	411.7	424.9	459.7	502.9	538.6	559.3
82.5°	188.0	197.4	221.8	247.2	278.2	298.9	312.1	349.7	388.2	419.2	439.0
85°	94.9	106.2	126.9	149.5	185.2	200.2	215.3	247.2	285.8	306.4	329.0
87.5°	31.0	39.5	60.2	83.7	112.8	129.7	142.9	177.7	204.9	230.3	251.0
90°	1.9	10.3	29.1	54.5	82.7	96.8	112.8	141.9	168.3	191.8	212.4
92.5°	0.9	8.5	26.3	50.8	78.0	92.1	106.2	133.5	157.0	179.5	203.0
95°	0.9	7.5	25.4	48.9	75.2	88.4	101.5	126.9	151.3	174.8	197.4
97.5°	0.9	6.6	23.5	47.0	72.4	84.6	96.8	121.3	145.7	168.3	188.9
100°	0.9	6.6	22.6	45.1	68.6	80.8	93.1	117.5	139.1	160.7	180.5
102.5°	0.9	6.6	21.6	43.2	65.8	77.1	89.3	111.9	133.5	154.2	172.0
105°	0.9	5.6	20.7	40.4	63.0	75.2	85.5	107.2	127.8	145.7	163.6
107.5°	0.9	5.6	19.7	39.5	61.1	71.4	82.7	103.4	122.2	140.1	156.0
110°	0.9	4.7	18.8	37.6	59.2	69.6	79.9	99.6	118.4	134.4	148.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	4.7	17.9	35.7	57.3	67.7	78.0	97.8	114.7	130.7	143.8
115°	0.9	4.7	16.9	34.8	55.5	65.8	76.1	94.9	111.9	126.9	139.1
117.5°	0.9	3.8	16.0	33.8	53.6	63.9	74.3	92.1	110.0	124.1	136.3
120°	0.9	3.8	15.0	32.0	51.7	62.0	71.4	90.2	108.1	122.2	134.4
122.5°	0.9	3.8	14.1	31.0	49.8	59.2	69.6	88.4	105.3	121.3	133.5
125°	0.9	2.8	14.1	30.1	47.9	57.3	67.7	85.5	103.4	118.4	131.6
127.5°	1.9	2.8	13.2	28.2	46.1	54.5	63.9	82.7	99.6	115.6	127.8
130°	1.9	2.8	11.3	26.3	43.2	51.7	61.1	79.0	95.9	110.9	124.1
132.5°	1.9	1.9	10.3	24.4	40.4	48.9	57.3	75.2	91.2	106.2	119.4
135°	1.9	1.9	9.4	21.6	37.6	45.1	53.6	70.5	86.5	100.6	113.7
137.5°	1.9	1.9	7.5	19.7	32.9	40.4	48.9	64.9	79.9	93.1	107.2
140°	1.9	1.9	6.6	16.9	29.1	35.7	43.2	58.3	73.3	86.5	98.7
142.5°	1.9	1.9	5.6	14.1	25.4	31.0	37.6	51.7	65.8	78.0	90.2
145°	2.8	1.9	4.7	12.2	21.6	27.3	32.0	45.1	57.3	68.6	80.8
147.5°	2.8	1.9	3.8	9.4	17.9	22.6	27.3	38.5	48.9	59.2	70.5
150°	2.8	2.8	2.8	7.5	14.1	17.9	22.6	32.0	40.4	49.8	59.2
152.5°	2.8	2.8	2.8	6.6	11.3	15.0	17.9	25.4	33.8	41.4	48.9
155°	2.8	2.8	2.8	4.7	8.5	11.3	14.1	19.7	26.3	32.9	38.5
157.5°	2.8	2.8	2.8	3.8	6.6	8.5	10.3	15.0	20.7	25.4	30.1
160°	3.8	2.8	2.8	2.8	4.7	6.6	8.5	11.3	15.0	18.8	22.6
162.5°	3.8	2.8	2.8	2.8	3.8	4.7	5.6	8.5	11.3	14.1	16.9
165°	3.8	3.8	2.8	1.9	2.8	3.8	3.8	5.6	7.5	9.4	11.3
167.5°	3.8	3.8	2.8	2.8	1.9	1.9	2.8	3.8	4.7	5.6	6.6
170°	3.8	3.8	2.8	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.8
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6	3986.6
2.5°	3942.4	3940.5	3936.8	3936.8	3936.8	3933.9	3933.0	3928.3	3929.2	3933.9
5°	3787.3	3792.9	3781.7	3784.5	3782.6	3784.5	3784.5	3785.4	3778.8	3780.7
7.5°	3607.8	3607.8	3604.9	3611.5	3604.9	3606.8	3610.6	3610.6	3611.5	3615.3
10°	3445.1	3448.0	3451.7	3459.2	3462.1	3465.8	3463.9	3475.2	3476.2	3479.0
12.5°	3324.8	3334.2	3334.2	3343.6	3345.5	3345.5	3355.8	3356.8	3358.7	3353.0
15°	3227.1	3237.4	3245.9	3256.2	3256.2	3264.7	3279.7	3264.7	3272.2	3262.8
17.5°	3151.9	3161.3	3173.5	3177.2	3181.9	3188.5	3199.8	3203.6	3208.3	3212.0
20°	3079.5	3091.7	3105.8	3122.7	3131.2	3128.4	3121.8	3136.8	3128.4	3132.1
22.5°	3013.7	3035.3	3041.9	3052.2	3063.5	3071.0	3080.4	3088.9	3089.8	3087.9
25°	2950.7	2968.6	2993.0	3013.7	3015.6	3017.4	3017.4	3020.3	3025.0	3027.8
27.5°	2890.5	2921.6	2936.6	2957.3	2967.6	2979.8	2996.8	2991.1	2989.2	2982.7
30°	2836.0	2864.2	2895.2	2923.4	2925.3	2926.3	2920.6	2924.4	2924.4	2931.9
32.5°	2780.6	2814.4	2836.0	2840.7	2848.2	2858.6	2862.3	2856.7	2854.8	2852.0
35°	2712.9	2741.1	2745.8	2768.3	2774.9	2772.1	2766.5	2769.3	2774.9	2784.3
37.5°	2631.1	2647.1	2681.9	2684.7	2691.3	2698.8	2712.9	2709.1	2707.2	2703.5
40°	2544.6	2571.9	2589.7	2610.4	2616.1	2614.2	2605.7	2611.4	2617.9	2621.7
42.5°	2456.3	2477.9	2500.4	2506.1	2508.0	2512.7	2521.1	2531.5	2525.8	2522.1
45°	2360.4	2376.3	2383.9	2396.1	2400.8	2401.7	2400.8	2401.7	2408.3	2411.1
47.5°	2251.3	2270.1	2273.9	2286.1	2286.1	2291.7	2304.0	2312.4	2317.1	2322.8
50°	2139.5	2152.6	2175.2	2181.8	2192.1	2204.3	2204.3	2209.0	2216.5	2224.1
52.5°	2036.1	2052.0	2067.1	2089.6	2089.6	2093.4	2105.6	2123.5	2132.9	2138.5
55°	1914.8	1937.4	1963.7	1978.7	1982.5	1994.7	2006.0	2008.8	2010.7	2016.3
57.5°	1791.7	1818.9	1841.5	1867.8	1867.8	1867.8	1877.2	1883.8	1889.4	1882.8
60°	1671.3	1693.0	1710.8	1726.8	1718.3	1726.8	1728.7	1720.2	1716.5	1717.4
62.5°	1538.8	1559.5	1570.8	1567.9	1567.0	1567.0	1562.3	1554.8	1557.6	1558.5
65°	1409.1	1414.7	1419.4	1421.3	1411.9	1409.1	1411.9	1419.4	1420.4	1431.6
67.5°	1265.3	1274.7	1271.8	1275.6	1272.8	1272.8	1268.1	1267.1	1256.8	1274.7
70°	1127.1	1132.7	1140.2	1139.3	1134.6	1127.1	1113.0	1111.1	1103.6	1112.0
72.5°	982.3	999.2	998.3	996.4	992.7	986.1	970.1	964.5	956.0	954.1
75°	845.1	854.5	859.2	859.2	852.6	850.7	841.3	832.9	830.0	827.2
77.5°	709.7	722.9	727.6	729.4	724.7	727.6	720.0	712.5	708.8	715.3
80°	582.8	590.3	600.7	609.1	613.8	611.9	611.9	613.8	611.0	614.8
82.5°	457.8	472.8	490.7	497.3	507.6	511.4	519.8	530.2	537.7	540.5
85°	350.6	370.4	390.1	407.0	418.3	429.6	449.3	470.9	487.9	497.3
87.5°	275.4	296.1	319.6	342.2	350.6	358.1	374.1	403.3	439.9	463.4
90°	236.9	262.3	279.2	295.2	306.4	315.8	341.2	373.2	414.5	435.2
92.5°	226.5	243.5	262.3	281.1	293.3	304.6	327.1	353.4	380.7	397.6
95°	215.3	235.0	255.7	270.7	279.2	288.6	306.4	326.2	347.8	357.2
97.5°	208.7	227.5	242.5	257.6	266.0	275.4	292.3	312.1	329.9	338.4
100°	198.3	214.3	229.4	244.4	252.9	260.4	277.3	292.3	300.8	303.6
102.5°	188.0	203.0	218.1	231.2	237.8	244.4	255.7	265.1	267.0	269.8
105°	179.5	192.7	204.0	215.3	220.0	224.7	232.2	233.1	233.1	232.2
107.5°	170.1	181.4	190.8	197.4	199.3	201.2	203.0	201.2	200.2	200.2
110°	161.7	170.1	176.7	180.5	181.4	182.4	181.4	181.4	182.4	181.4





TEST NUMBER: P241377

CATALOG NUMBER: FVS8M-3-LD4-30-3HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	154.2	161.7	166.4	168.3	169.2	170.1	172.0	173.9	175.8	176.7
115°	148.5	155.1	159.8	164.5	166.4	168.3	173.0	177.7	181.4	182.4
117.5°	145.7	153.2	160.7	166.4	170.1	173.0	179.5	186.1	189.9	190.8
120°	145.7	155.1	163.6	171.1	174.8	178.6	186.1	192.7	196.5	198.3
122.5°	144.8	156.0	165.4	173.9	177.7	181.4	188.9	195.5	200.2	202.1
125°	143.8	155.1	165.4	174.8	178.6	182.4	189.9	195.5	200.2	202.1
127.5°	140.1	152.3	162.6	172.0	176.7	181.4	188.0	193.6	198.3	200.2
130°	136.3	147.6	157.9	168.3	173.0	177.7	185.2	190.8	195.5	197.4
132.5°	130.7	142.9	153.2	162.6	167.3	172.0	179.5	186.1	189.9	191.8
135°	125.0	137.2	146.6	155.1	159.8	164.5	172.0	177.7	182.4	183.3
137.5°	118.4	128.8	139.1	147.6	151.3	155.1	161.7	168.3	171.1	173.0
140°	110.0	120.3	129.7	137.2	141.0	144.8	150.4	155.1	158.9	160.7
142.5°	101.5	110.9	118.4	126.0	129.7	131.6	137.2	141.9	144.8	145.7
145°	91.2	99.6	107.2	113.7	115.6	118.4	123.1	126.9	128.8	130.7
147.5°	79.9	87.4	94.9	100.6	103.4	105.3	110.0	112.8	114.7	115.6
150°	68.6	76.1	82.7	87.4	89.3	92.1	94.9	98.7	99.6	100.6
152.5°	56.4	63.9	69.6	75.2	77.1	78.0	81.8	83.7	85.5	85.5
155°	46.1	51.7	57.3	62.0	63.9	64.9	67.7	69.6	70.5	71.4
157.5°	35.7	40.4	46.1	50.8	51.7	52.6	55.5	56.4	57.3	58.3
160°	27.3	31.0	34.8	38.5	40.4	42.3	44.2	45.1	46.1	45.1
162.5°	19.7	22.6	25.4	28.2	30.1	32.0	33.8	34.8	34.8	34.8
165°	13.2	16.0	17.9	19.7	20.7	21.6	24.4	24.4	24.4	24.4
167.5°	8.5	9.4	10.3	12.2	12.2	13.2	15.0	16.0	16.0	16.0
170°	3.8	4.7	5.6	5.6	6.6	6.6	7.5	8.5	8.5	7.5
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)