

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: P241485

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-30)
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-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH PA187 LENS
Light Source: (252) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

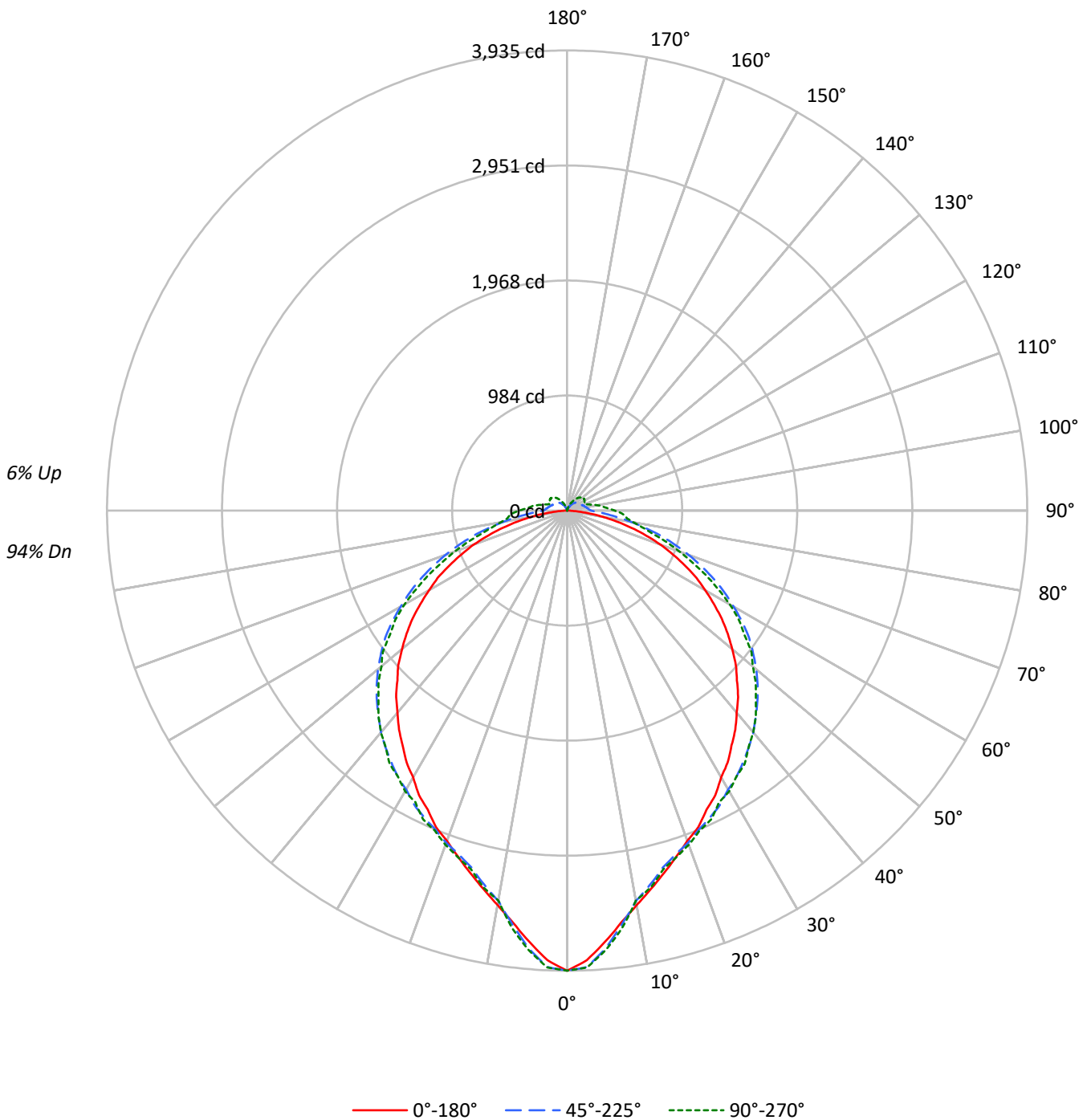
Lumens per Lamp: N/A
Luminaire Lumens: 10636.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

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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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	107	101	97	93	103	99	94	91	93	90	87	88	85	83	84	81	79	77
2	97	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	51	44	56	49	43	54	47	42	51	46	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	41	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°	22976	22976	22976
5°	21607	21657	21694
10°	20123	19427	19318
15°	19121	18152	18100
20°	18339	17541	17461
25°	17758	17093	16991
30°	17250	16684	16535
35°	16872	16446	16287
40°	16489	16216	15867
45°	16129	15898	15369
50°	15776	15557	14836
55°	15323	15114	14241
60°	14623	14354	13502
65°	13813	13455	12216
70°	12708	12250	10765
75°	10776	10807	9218
80°	8210	8837	8455
85°	4137	6884	9269



TEST NUMBER: P241485

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.7	3.3
10°-20°	900.0	8.5
20°-30°	1329.9	12.5
30°-40°	1622.0	15.3
40°-50°	1726.8	16.2
50°-60°	1623.2	15.3
60°-70°	1285.5	12.1
70°-80°	799.5	7.5
80°-90°	352.5	3.3
90°-100°	187.4	1.8
100°-110°	138.1	1.3
110°-120°	107.6	1.0
120°-130°	93.4	0.9
130°-140°	67.3	0.6
140°-150°	37.8	0.4
150°-160°	14.9	0.1
160°-170°	3.0	0.0
170°-180°	0.1	0.0
0°-30°	2576.6	24.2
0°-40°	4198.7	39.5
0°-60°	7548.7	71.0
0°-90°	9986.3	93.9
90°-120°	433.1	4.1
90°-150°	631.7	5.9
90°-180°	650.0	6.1
0°-180°	10636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3935	3935	3935	3935	3935	
5°	3702	3729	3758	3779	3774	345
15°	3206	3190	3160	3162	3175	904
25°	2822	2859	2895	2902	2915	1304
35°	2451	2551	2623	2648	2646	1536
45°	2053	2177	2302	2299	2281	1588
55°	1615	1748	1900	1886	1850	1440
65°	1109	1239	1383	1368	1312	1099
75°	569	695	829	824	753	604
85°	98	209	333	401	495	128
90°	2	96	205	293	407	5
95°	1	80	180	260	320	1
105°	1	68	150	201	199	1
115°	1	58	129	161	164	1
125°	1	49	118	164	176	1
135°	2	36	94	139	158	1
145°	3	19	64	99	114	2
155°	3	8	31	54	63	1
165°	4	2	8	15	20	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241485

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7
2.5°	3849.2	3856.7	3863.3	3867.0	3870.8	3881.1	3888.6	3889.6	3900.9	3909.3	3906.5
5°	3702.5	3709.1	3722.3	3728.8	3724.1	3728.8	3739.2	3742.9	3745.8	3749.5	3758.0
7.5°	3552.1	3548.4	3559.6	3556.8	3561.5	3558.7	3560.6	3559.6	3569.0	3570.9	3571.9
10°	3424.3	3428.1	3429.9	3422.4	3421.5	3424.3	3418.7	3413.0	3410.2	3396.1	3389.5
12.5°	3313.4	3313.4	3314.3	3300.2	3293.6	3288.9	3295.5	3293.6	3281.4	3269.2	3276.7
15°	3206.2	3209.0	3210.9	3200.6	3192.1	3190.2	3193.1	3174.3	3176.1	3182.7	3160.2
17.5°	3103.8	3115.0	3110.3	3098.1	3098.1	3098.1	3095.3	3091.5	3095.3	3088.7	3082.1
20°	3006.0	3008.8	3007.9	3013.5	3013.5	3012.6	3011.6	3013.5	3021.0	3006.0	3023.9
22.5°	2929.9	2932.7	2937.4	2927.0	2924.2	2920.5	2928.0	2949.6	2943.0	2954.3	2949.6
25°	2821.8	2822.7	2821.8	2832.1	2849.0	2859.4	2866.9	2868.8	2874.4	2891.3	2895.1
27.5°	2743.8	2744.7	2756.9	2761.6	2771.0	2782.3	2784.2	2799.2	2814.3	2820.8	2834.9
30°	2633.8	2646.9	2648.8	2673.3	2698.6	2707.1	2712.7	2728.7	2740.0	2757.9	2754.1
32.5°	2554.8	2562.3	2580.2	2595.2	2613.1	2619.7	2634.7	2659.2	2676.1	2693.9	2696.8
35°	2451.4	2455.2	2473.0	2498.4	2537.0	2551.1	2568.0	2572.7	2598.1	2617.8	2623.4
37.5°	2362.1	2368.7	2392.2	2414.8	2436.4	2456.1	2478.7	2503.1	2523.8	2539.8	2552.0
40°	2255.9	2260.6	2287.9	2317.0	2358.4	2378.1	2385.6	2422.3	2444.8	2458.9	2476.8
42.5°	2164.7	2169.4	2193.9	2223.0	2253.1	2281.3	2299.2	2333.9	2357.4	2374.4	2387.5
45°	2052.9	2063.2	2085.8	2125.3	2166.6	2177.0	2196.7	2230.5	2262.5	2291.6	2302.0
47.5°	1957.9	1961.7	1989.0	2016.2	2057.6	2080.1	2103.6	2132.8	2171.3	2191.1	2208.9
50°	1842.3	1854.5	1877.1	1912.8	1950.4	1971.1	1998.4	2036.0	2067.0	2094.2	2112.1
52.5°	1731.4	1738.0	1764.3	1801.9	1844.2	1868.6	1888.4	1926.9	1969.2	1993.7	2004.9
55°	1614.9	1622.4	1651.5	1688.2	1728.6	1748.3	1772.8	1815.1	1857.4	1879.9	1899.7
57.5°	1488.0	1503.9	1530.3	1569.7	1605.5	1625.2	1651.5	1699.5	1736.1	1760.6	1775.6
60°	1362.9	1374.2	1402.4	1437.2	1488.0	1510.5	1531.2	1573.5	1604.5	1631.8	1645.9
62.5°	1248.3	1253.9	1279.3	1312.2	1354.5	1375.2	1398.7	1444.7	1476.7	1500.2	1517.1
65°	1109.2	1124.2	1147.7	1178.7	1219.1	1238.9	1262.4	1308.4	1343.2	1371.4	1382.7
67.5°	979.4	983.2	1013.3	1049.0	1089.4	1108.2	1128.0	1172.1	1206.0	1228.5	1242.6
70°	848.8	850.7	882.6	908.9	953.1	973.8	990.7	1029.3	1068.7	1087.5	1103.5
72.5°	705.9	714.4	747.3	775.5	811.2	830.0	855.4	893.0	924.9	948.4	960.6
75°	568.7	576.2	599.7	637.3	674.0	694.6	719.1	754.8	781.1	810.2	829.0
77.5°	436.1	456.8	469.0	501.9	543.3	567.7	584.7	617.6	643.9	667.4	682.4
80°	314.9	319.6	345.0	375.0	414.5	430.5	449.3	485.0	511.3	537.7	554.6
82.5°	197.4	206.8	232.2	260.4	294.2	310.2	328.0	361.9	391.0	411.7	434.3
85°	97.8	107.2	130.7	157.0	193.6	208.7	225.6	256.6	283.9	306.4	332.7
87.5°	32.9	40.4	61.1	87.4	118.4	132.5	147.6	175.8	200.2	227.5	249.1
90°	1.9	9.4	28.2	53.6	81.8	95.9	110.0	132.5	157.9	181.4	204.9
92.5°	0.9	7.5	24.4	47.9	74.3	86.5	97.8	121.3	145.7	167.3	188.9
95°	0.9	6.6	22.6	44.2	67.7	79.9	92.1	115.6	139.1	160.7	180.5
97.5°	0.9	5.6	20.7	41.4	63.9	76.1	87.4	110.9	132.5	153.2	172.0
100°	0.9	5.6	19.7	39.5	61.1	72.4	83.7	106.2	126.9	145.7	163.6
102.5°	0.9	5.6	18.8	37.6	59.2	69.6	80.8	101.5	121.3	139.1	157.0
105°	0.9	4.7	17.9	36.7	57.3	67.7	77.1	97.8	115.6	133.5	150.4
107.5°	0.9	4.7	16.9	34.8	54.5	64.9	75.2	94.0	111.9	128.8	143.8
110°	0.9	3.8	16.0	33.8	52.6	63.0	72.4	91.2	108.1	124.1	137.2



TEST NUMBER: P241485

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	3.8	15.0	32.0	50.8	61.1	70.5	88.4	105.3	119.4	132.5
115°	0.9	2.8	14.1	30.1	48.9	58.3	67.7	85.5	101.5	115.6	128.8
117.5°	0.9	2.8	13.2	29.1	47.0	56.4	64.9	82.7	98.7	113.7	126.0
120°	0.9	2.8	12.2	27.3	45.1	53.6	63.0	79.9	96.8	110.9	124.1
122.5°	0.9	1.9	11.3	25.4	42.3	50.8	60.2	77.1	93.1	108.1	122.2
125°	0.9	1.9	10.3	24.4	40.4	48.9	57.3	73.3	90.2	104.3	118.4
127.5°	1.9	1.9	9.4	22.6	37.6	46.1	53.6	70.5	85.5	99.6	113.7
130°	1.9	1.9	8.5	19.7	34.8	43.2	50.8	65.8	80.8	94.0	108.1
132.5°	1.9	1.9	7.5	17.9	32.0	39.5	47.0	61.1	75.2	88.4	101.5
135°	1.9	1.9	5.6	16.0	28.2	35.7	42.3	56.4	69.6	81.8	94.0
137.5°	1.9	1.9	4.7	13.2	24.4	31.0	37.6	50.8	63.9	75.2	87.4
140°	1.9	1.9	3.8	11.3	21.6	27.3	32.9	45.1	57.3	68.6	79.9
142.5°	2.8	1.9	3.8	9.4	17.9	23.5	28.2	38.5	49.8	61.1	71.4
145°	2.8	1.9	2.8	7.5	15.0	18.8	23.5	32.9	43.2	53.6	63.9
147.5°	2.8	2.8	2.8	5.6	12.2	16.0	19.7	28.2	36.7	46.1	54.5
150°	2.8	2.8	1.9	4.7	9.4	12.2	16.0	22.6	30.1	38.5	46.1
152.5°	2.8	2.8	1.9	3.8	7.5	9.4	12.2	18.8	24.4	31.0	38.5
155°	2.8	2.8	2.8	2.8	5.6	7.5	9.4	14.1	19.7	24.4	31.0
157.5°	2.8	2.8	2.8	2.8	3.8	5.6	6.6	10.3	14.1	18.8	23.5
160°	3.8	2.8	2.8	1.9	2.8	3.8	4.7	7.5	10.3	14.1	16.9
162.5°	3.8	3.8	2.8	2.8	1.9	2.8	3.8	4.7	6.6	9.4	11.3
165°	3.8	3.8	2.8	2.8	1.9	1.9	2.8	2.8	4.7	5.6	7.5
167.5°	3.8	3.8	2.8	2.8	1.9	1.9	1.9	1.9	2.8	2.8	3.8
170°	3.8	3.8	2.8	2.8	1.9	1.9	1.9	1.9	0.9	0.9	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



TEST NUMBER: P241485

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7	3934.7
2.5°	3912.1	3905.6	3909.3	3910.3	3913.1	3916.8	3907.4	3906.5	3909.3	3909.3
5°	3758.9	3767.4	3766.4	3774.0	3778.7	3774.9	3775.8	3778.7	3782.4	3774.0
7.5°	3564.3	3570.0	3580.3	3572.8	3582.2	3577.5	3591.6	3583.1	3599.1	3601.9
10°	3389.5	3390.5	3402.7	3407.4	3418.7	3401.7	3397.0	3393.3	3382.9	3387.6
12.5°	3261.7	3243.8	3229.7	3238.2	3252.3	3262.6	3281.4	3293.6	3299.3	3301.2
15°	3151.7	3169.6	3178.0	3177.1	3162.0	3157.3	3154.5	3158.3	3168.6	3175.2
17.5°	3102.8	3089.7	3077.4	3105.6	3122.6	3132.9	3133.8	3127.3	3123.5	3106.6
20°	3007.9	3034.2	3059.6	3038.0	3022.9	3018.2	3013.5	3029.5	3039.8	3040.8
22.5°	2968.4	2986.3	2951.5	2984.4	3001.3	3006.0	2994.7	2980.6	2970.3	2961.8
25°	2902.6	2895.1	2931.7	2911.1	2901.7	2892.3	2906.4	2912.9	2911.1	2914.8
27.5°	2821.8	2850.0	2823.7	2843.4	2863.1	2870.7	2848.1	2829.3	2815.2	2811.4
30°	2775.7	2755.0	2802.0	2789.8	2772.9	2764.4	2761.6	2768.2	2770.1	2772.0
32.5°	2701.5	2723.1	2702.4	2695.8	2714.6	2722.1	2725.9	2709.0	2704.3	2694.9
35°	2631.9	2636.6	2632.8	2661.0	2647.9	2641.3	2637.5	2644.1	2647.9	2646.0
37.5°	2578.3	2553.9	2591.5	2566.1	2576.4	2581.1	2585.8	2568.0	2562.3	2548.2
40°	2479.6	2499.4	2480.6	2501.2	2501.2	2489.0	2469.3	2465.5	2469.3	2475.9
42.5°	2398.8	2400.7	2427.0	2395.0	2387.5	2386.6	2398.8	2396.0	2381.9	2388.4
45°	2316.1	2324.5	2298.2	2292.6	2299.2	2293.5	2275.7	2272.8	2280.4	2281.3
47.5°	2215.5	2226.8	2199.5	2197.6	2189.2	2180.7	2191.1	2197.6	2189.2	2187.3
50°	2121.5	2099.9	2107.4	2093.3	2097.1	2103.6	2082.0	2068.9	2068.9	2072.6
52.5°	2009.6	2016.2	2001.2	2018.1	2004.0	1991.8	1992.7	1988.0	1987.1	1987.1
55°	1898.7	1906.2	1916.6	1887.4	1885.6	1883.7	1877.1	1862.1	1851.7	1849.9
57.5°	1785.9	1786.9	1789.7	1780.3	1784.1	1775.6	1747.4	1751.2	1748.3	1742.7
60°	1656.2	1667.5	1650.6	1644.0	1639.3	1636.5	1633.7	1618.6	1608.3	1608.3
62.5°	1521.8	1513.3	1517.1	1503.0	1508.6	1509.6	1482.3	1471.0	1458.8	1455.1
65°	1387.4	1376.1	1373.3	1375.2	1367.6	1346.0	1336.6	1330.0	1316.0	1312.2
67.5°	1245.5	1247.3	1241.7	1227.6	1216.3	1210.7	1192.8	1175.9	1163.7	1159.9
70°	1103.5	1101.6	1104.5	1087.5	1092.2	1081.0	1058.4	1038.7	1033.0	1021.7
72.5°	965.3	968.2	967.2	966.3	956.9	943.7	928.7	913.6	905.2	885.4
75°	834.7	846.0	837.5	830.0	824.3	816.8	808.4	779.2	763.3	752.9
77.5°	697.5	710.6	715.3	705.0	702.2	702.2	686.2	666.4	659.9	657.0
80°	564.0	579.0	590.3	591.2	590.3	585.6	581.8	579.0	576.2	573.4
82.5°	451.2	469.0	476.6	480.3	486.9	486.0	495.4	502.9	511.3	516.0
85°	348.7	364.7	380.7	393.8	401.4	410.8	422.0	440.8	470.0	495.4
87.5°	270.7	289.5	311.1	329.0	335.6	344.0	364.7	395.7	434.3	459.6
90°	226.5	247.2	267.9	285.7	293.3	304.5	328.0	356.2	390.1	407.0
92.5°	208.7	228.4	247.2	265.1	275.4	285.7	305.5	325.2	345.9	357.2
95°	199.3	217.1	235.0	251.9	260.4	269.8	282.9	299.8	313.9	320.5
97.5°	189.9	206.8	222.8	238.8	246.3	253.8	268.8	283.9	298.0	297.0
100°	181.4	197.4	211.5	225.6	232.2	238.8	251.0	257.6	261.3	262.3
102.5°	173.9	187.1	200.2	211.5	216.2	222.8	231.2	232.2	232.2	227.5
105°	164.5	177.7	188.9	196.5	201.2	204.0	205.9	204.9	201.2	199.3
107.5°	157.0	167.3	176.7	182.4	184.2	184.2	181.4	179.5	175.8	176.7
110°	149.5	158.9	165.4	168.3	169.2	169.2	167.3	164.5	162.6	162.6



TEST NUMBER: P241485

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	143.8	152.3	157.9	160.7	161.7	161.7	161.7	160.7	159.8	158.9
115°	139.1	148.5	154.2	158.9	160.7	161.7	163.6	164.5	163.6	163.6
117.5°	138.2	146.6	155.1	160.7	163.6	165.4	168.3	170.1	169.2	168.3
120°	136.3	146.6	155.1	162.6	165.4	168.3	172.0	173.9	173.0	172.0
122.5°	135.4	145.7	155.1	163.6	166.4	169.2	173.9	175.8	174.8	174.8
125°	131.6	142.9	153.2	161.7	164.5	167.3	173.0	174.8	175.8	175.8
127.5°	126.9	138.2	148.5	157.0	160.7	164.5	169.2	172.0	173.9	173.9
130°	120.3	132.5	142.9	151.3	155.1	158.9	163.6	168.3	170.1	171.1
132.5°	113.7	125.0	135.4	144.8	148.5	152.3	157.9	161.7	164.5	165.4
135°	106.2	116.6	126.9	135.4	139.1	143.8	149.5	154.2	157.0	157.9
137.5°	97.8	108.1	117.5	126.0	129.7	133.5	141.0	145.7	148.5	149.5
140°	89.3	99.6	108.1	116.6	120.3	124.1	130.7	135.4	138.2	139.1
142.5°	81.8	90.2	98.7	106.2	110.0	113.7	119.4	124.1	126.0	127.8
145°	72.4	80.8	88.4	95.9	98.7	101.5	107.2	110.9	112.8	113.7
147.5°	63.9	71.4	79.0	84.6	87.4	90.2	94.9	97.8	100.6	100.6
150°	54.5	62.0	68.6	74.3	77.1	79.0	82.7	85.5	86.5	87.4
152.5°	45.1	51.7	58.3	63.0	64.9	67.7	70.5	73.3	74.3	75.2
155°	35.7	42.3	47.9	52.6	54.5	56.4	58.3	61.1	62.0	63.0
157.5°	28.2	32.9	37.6	42.3	43.2	45.1	47.0	48.9	49.8	49.8
160°	20.7	24.4	28.2	32.0	33.8	34.8	37.6	37.6	39.5	39.5
162.5°	14.1	16.9	19.7	22.6	23.5	25.4	27.3	28.2	29.1	29.1
165°	9.4	10.3	13.2	15.0	15.0	16.0	18.8	18.8	18.8	19.7
167.5°	4.7	5.6	6.6	8.5	8.5	9.4	10.3	11.3	11.3	11.3
170°	1.9	1.9	2.8	2.8	2.8	3.8	3.8	4.7	4.7	4.7
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)