

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: P241482

Luminaire Tested: **FVS8M-3-LD4-35-3STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241482
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-LD4-35-3STD-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH PA187 LENS
Light Source: (252) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

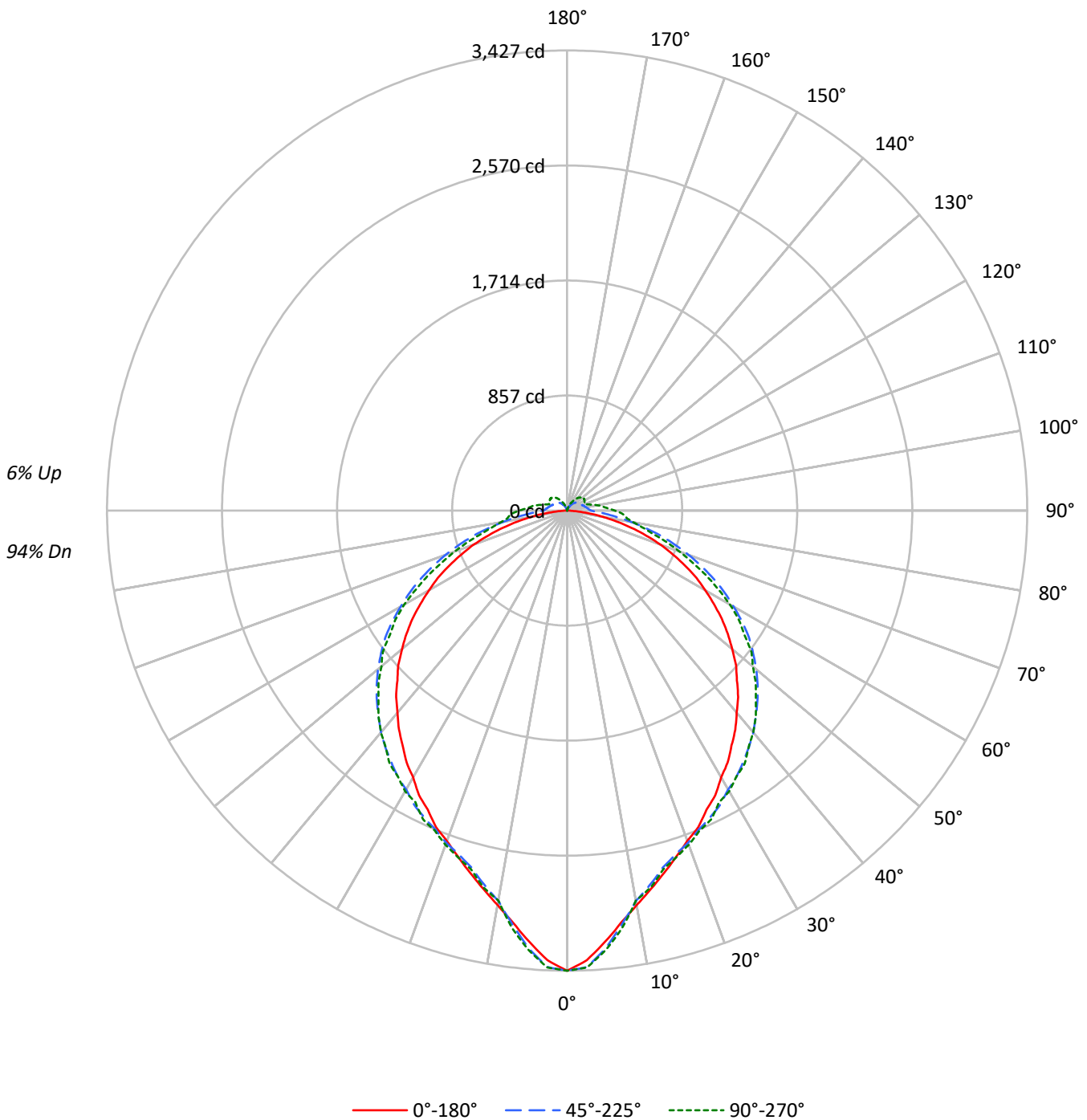
Lumens per Lamp: N/A
Luminaire Lumens: 9263.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 82.9
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-LD4-35-3STD-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	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°	20011	20011	20011
5°	18818	18862	18893
10°	17525	16920	16824
15°	16653	15809	15764
20°	15972	15276	15207
25°	15465	14886	14798
30°	15023	14531	14400
35°	14694	14324	14184
40°	14361	14123	13819
45°	14047	13845	13385
50°	13740	13549	12921
55°	13344	13162	12403
60°	12736	12501	11759
65°	12029	11718	10639
70°	11067	10670	9375
75°	9385	9412	8028
80°	7149	7696	7364
85°	3600	5997	8071



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	3.3
10°-20°	783.9	8.5
20°-30°	1158.2	12.5
30°-40°	1412.6	15.3
40°-50°	1503.9	16.2
50°-60°	1413.7	15.3
60°-70°	1119.6	12.1
70°-80°	696.3	7.5
80°-90°	307.0	3.3
90°-100°	163.2	1.8
100°-110°	120.2	1.3
110°-120°	93.8	1.0
120°-130°	81.4	0.9
130°-140°	58.6	0.6
140°-150°	33.0	0.4
150°-160°	13.0	0.1
160°-170°	2.6	0.0
170°-180°	0.0	0.0
0°-30°	2244.0	24.2
0°-40°	3656.7	39.5
0°-60°	6574.2	71.0
0°-90°	8697.1	93.9
90°-120°	377.2	4.1
90°-150°	550.2	5.9
90°-180°	566.0	6.1
0°-180°	9263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3427	3427	3427	3427	3427	
5°	3225	3248	3273	3291	3287	300
15°	2792	2778	2752	2754	2765	787
25°	2458	2490	2521	2527	2539	1136
35°	2135	2222	2285	2306	2304	1338
45°	1788	1896	2005	2002	1987	1383
55°	1406	1523	1654	1642	1611	1254
65°	966	1079	1204	1191	1143	957
75°	495	605	722	718	656	526
85°	85	182	290	350	431	111
90°	2	84	178	255	354	4
95°	1	70	157	227	279	1
105°	1	59	131	175	174	1
115°	1	51	112	140	142	1
125°	1	43	103	143	153	1
135°	2	31	82	121	138	1
145°	2	16	56	86	99	1
155°	2	6	27	48	55	1
165°	3	2	6	13	17	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241482

CATALOG NUMBER: FVS8M-3-LD4-35-3STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8
2.5°	3352.3	3358.8	3364.5	3367.8	3371.1	3380.1	3386.6	3387.5	3397.3	3404.7	3402.2
5°	3224.6	3230.3	3241.8	3247.5	3243.4	3247.5	3256.5	3259.8	3262.2	3265.5	3272.9
7.5°	3093.6	3090.3	3100.1	3097.7	3101.8	3099.3	3100.9	3100.1	3108.3	3110.0	3110.8
10°	2982.2	2985.5	2987.2	2980.6	2979.8	2982.2	2977.3	2972.4	2970.0	2957.7	2952.0
12.5°	2885.7	2885.7	2886.5	2874.2	2868.5	2864.4	2870.1	2868.5	2857.8	2847.2	2853.7
15°	2792.3	2794.8	2796.4	2787.4	2780.0	2778.4	2780.9	2764.5	2766.1	2771.9	2752.2
17.5°	2703.1	2712.9	2708.8	2698.2	2698.2	2698.2	2695.7	2692.5	2695.7	2690.0	2684.3
20°	2618.0	2620.4	2619.6	2624.5	2624.5	2623.7	2622.9	2624.5	2631.1	2618.0	2633.5
22.5°	2551.7	2554.1	2558.2	2549.2	2546.7	2543.5	2550.0	2568.8	2563.1	2572.9	2568.8
25°	2457.5	2458.3	2457.5	2466.5	2481.3	2490.3	2496.8	2498.4	2503.4	2518.1	2521.4
27.5°	2389.6	2390.4	2401.0	2405.1	2413.3	2423.1	2424.8	2437.9	2451.0	2456.7	2469.0
30°	2293.8	2305.2	2306.9	2328.2	2350.3	2357.6	2362.6	2376.5	2386.3	2401.8	2398.6
32.5°	2225.0	2231.6	2247.1	2260.2	2275.8	2281.5	2294.6	2315.9	2330.6	2346.2	2348.6
35°	2135.0	2138.2	2153.8	2175.9	2209.5	2221.7	2236.5	2240.6	2262.7	2279.9	2284.8
37.5°	2057.2	2062.9	2083.4	2103.0	2121.9	2139.1	2158.7	2180.0	2198.0	2211.9	2222.6
40°	1964.7	1968.8	1992.5	2017.9	2053.9	2071.1	2077.7	2109.6	2129.2	2141.5	2157.1
42.5°	1885.3	1889.4	1910.7	1936.0	1962.2	1986.8	2002.4	2032.6	2053.1	2067.8	2079.3
45°	1787.9	1796.9	1816.5	1850.9	1886.9	1895.9	1913.1	1942.6	1970.4	1995.8	2004.8
47.5°	1705.2	1708.5	1732.2	1755.9	1792.0	1811.6	1832.1	1857.5	1891.0	1908.2	1923.8
50°	1604.5	1615.1	1634.8	1665.9	1698.6	1716.7	1740.4	1773.1	1800.2	1823.9	1839.4
52.5°	1507.9	1513.6	1536.6	1569.3	1606.1	1627.4	1644.6	1678.2	1715.0	1736.3	1746.1
55°	1406.4	1412.9	1438.3	1470.2	1505.5	1522.6	1543.9	1580.8	1617.6	1637.2	1654.4
57.5°	1295.9	1309.8	1332.7	1367.1	1398.2	1415.4	1438.3	1480.1	1512.0	1533.3	1546.4
60°	1187.0	1196.8	1221.4	1251.7	1295.9	1315.5	1333.5	1370.4	1397.4	1421.1	1433.4
62.5°	1087.1	1092.0	1114.1	1142.8	1179.6	1197.6	1218.1	1258.2	1286.1	1306.5	1321.3
65°	966.0	979.1	999.5	1026.6	1061.8	1078.9	1099.4	1139.5	1169.8	1194.4	1204.2
67.5°	853.0	856.3	882.5	913.6	948.8	965.2	982.3	1020.8	1050.3	1069.9	1082.2
70°	739.2	740.9	768.7	791.6	830.1	848.1	862.8	896.4	930.8	947.1	961.1
72.5°	614.8	622.2	650.8	675.4	706.5	722.8	744.9	777.7	805.5	826.0	836.6
75°	495.3	501.8	522.3	555.0	587.0	605.0	626.2	657.4	680.3	705.7	722.0
77.5°	379.8	397.9	408.5	437.1	473.2	494.4	509.2	537.8	560.8	581.2	594.3
80°	274.2	278.3	300.4	326.6	361.0	374.9	391.3	422.4	445.3	468.3	483.0
82.5°	171.9	180.1	202.2	226.8	256.2	270.1	285.7	315.2	340.5	358.6	378.2
85°	85.1	93.3	113.8	136.7	168.6	181.7	196.5	223.5	247.2	266.9	289.8
87.5°	28.7	35.2	53.2	76.1	103.1	115.4	128.5	153.1	174.4	198.1	216.9
90°	1.6	8.2	24.6	46.7	71.2	83.5	95.8	115.4	137.5	158.0	178.5
92.5°	0.8	6.5	21.3	41.7	64.7	75.3	85.1	105.6	126.9	145.7	164.5
95°	0.8	5.7	19.6	38.5	58.9	69.6	80.2	100.7	121.2	140.0	157.2
97.5°	0.8	4.9	18.0	36.0	55.7	66.3	76.1	96.6	115.4	133.4	149.8
100°	0.8	4.9	17.2	34.4	53.2	63.0	72.9	92.5	110.5	126.9	142.4
102.5°	0.8	4.9	16.4	32.7	51.6	60.6	70.4	88.4	105.6	121.2	136.7
105°	0.8	4.1	15.6	31.9	49.9	58.9	67.1	85.1	100.7	116.2	131.0
107.5°	0.8	4.1	14.7	30.3	47.5	56.5	65.5	81.9	97.4	112.2	125.2
110°	0.8	3.3	13.9	29.5	45.8	54.8	63.0	79.4	94.1	108.1	119.5



TEST NUMBER: P241482

CATALOG NUMBER: FVS8M-3-LD4-35-3STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	3.3	13.1	27.8	44.2	53.2	61.4	77.0	91.7	104.0	115.4
115°	0.8	2.5	12.3	26.2	42.6	50.8	58.9	74.5	88.4	100.7	112.2
117.5°	0.8	2.5	11.5	25.4	40.9	49.1	56.5	72.0	86.0	99.1	109.7
120°	0.8	2.5	10.6	23.7	39.3	46.7	54.8	69.6	84.3	96.6	108.1
122.5°	0.8	1.6	9.8	22.1	36.8	44.2	52.4	67.1	81.0	94.1	106.4
125°	0.8	1.6	9.0	21.3	35.2	42.6	49.9	63.9	78.6	90.9	103.1
127.5°	1.6	1.6	8.2	19.6	32.7	40.1	46.7	61.4	74.5	86.8	99.1
130°	1.6	1.6	7.4	17.2	30.3	37.7	44.2	57.3	70.4	81.9	94.1
132.5°	1.6	1.6	6.5	15.6	27.8	34.4	40.9	53.2	65.5	77.0	88.4
135°	1.6	1.6	4.9	13.9	24.6	31.1	36.8	49.1	60.6	71.2	81.9
137.5°	1.6	1.6	4.1	11.5	21.3	27.0	32.7	44.2	55.7	65.5	76.1
140°	1.6	1.6	3.3	9.8	18.8	23.7	28.7	39.3	49.9	59.8	69.6
142.5°	2.5	1.6	3.3	8.2	15.6	20.5	24.6	33.6	43.4	53.2	62.2
145°	2.5	1.6	2.5	6.5	13.1	16.4	20.5	28.7	37.7	46.7	55.7
147.5°	2.5	2.5	2.5	4.9	10.6	13.9	17.2	24.6	31.9	40.1	47.5
150°	2.5	2.5	1.6	4.1	8.2	10.6	13.9	19.6	26.2	33.6	40.1
152.5°	2.5	2.5	1.6	3.3	6.5	8.2	10.6	16.4	21.3	27.0	33.6
155°	2.5	2.5	2.5	2.5	4.9	6.5	8.2	12.3	17.2	21.3	27.0
157.5°	2.5	2.5	2.5	2.5	3.3	4.9	5.7	9.0	12.3	16.4	20.5
160°	3.3	2.5	2.5	1.6	2.5	3.3	4.1	6.5	9.0	12.3	14.7
162.5°	3.3	3.3	2.5	2.5	1.6	2.5	3.3	4.1	5.7	8.2	9.8
165°	3.3	3.3	2.5	2.5	1.6	1.6	2.5	2.5	4.1	4.9	6.5
167.5°	3.3	3.3	2.5	2.5	1.6	1.6	1.6	1.6	2.5	2.5	3.3
170°	3.3	3.3	2.5	2.5	1.6	1.6	1.6	1.6	0.8	0.8	1.6
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: P241482

CATALOG NUMBER: FVS8M-3-LD4-35-3STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8	3426.8
2.5°	3407.1	3401.4	3404.7	3405.5	3407.9	3411.2	3403.0	3402.2	3404.7	3404.7
5°	3273.7	3281.0	3280.2	3286.8	3290.9	3287.6	3288.4	3290.9	3294.1	3286.8
7.5°	3104.2	3109.1	3118.1	3111.6	3119.8	3115.7	3128.0	3120.6	3134.5	3137.0
10°	2952.0	2952.8	2963.4	2967.5	2977.3	2962.6	2958.5	2955.2	2946.2	2950.3
12.5°	2840.6	2825.1	2812.8	2820.2	2832.4	2841.4	2857.8	2868.5	2873.4	2875.0
15°	2744.8	2760.4	2767.8	2767.0	2753.9	2749.8	2747.3	2750.6	2759.6	2765.3
17.5°	2702.3	2690.8	2680.2	2704.7	2719.5	2728.5	2729.3	2723.6	2720.3	2705.6
20°	2619.6	2642.5	2664.6	2645.8	2632.7	2628.6	2624.5	2638.4	2647.4	2648.3
22.5°	2585.2	2600.8	2570.5	2599.1	2613.9	2618.0	2608.1	2595.9	2586.9	2579.5
25°	2527.9	2521.4	2553.3	2535.3	2527.1	2518.9	2531.2	2536.9	2535.3	2538.6
27.5°	2457.5	2482.1	2459.1	2476.3	2493.5	2500.1	2480.4	2464.1	2451.8	2448.5
30°	2417.4	2399.4	2440.3	2429.7	2414.9	2407.6	2405.1	2410.8	2412.5	2414.1
32.5°	2352.7	2371.6	2353.5	2347.8	2364.2	2370.7	2374.0	2359.3	2355.2	2347.0
35°	2292.1	2296.2	2293.0	2317.5	2306.1	2300.3	2297.1	2302.8	2306.1	2304.4
37.5°	2245.5	2224.2	2256.9	2234.8	2243.8	2247.9	2252.0	2236.5	2231.6	2219.3
40°	2159.5	2176.7	2160.4	2178.4	2178.4	2167.7	2150.5	2147.3	2150.5	2156.3
42.5°	2089.1	2090.8	2113.7	2085.9	2079.3	2078.5	2089.1	2086.7	2074.4	2080.1
45°	2017.1	2024.5	2001.5	1996.6	2002.4	1997.4	1981.9	1979.4	1986.0	1986.8
47.5°	1929.5	1939.3	1915.6	1913.9	1906.6	1899.2	1908.2	1913.9	1906.6	1904.9
50°	1847.6	1828.8	1835.4	1823.1	1826.4	1832.1	1813.3	1801.8	1801.8	1805.1
52.5°	1750.2	1755.9	1742.9	1757.6	1745.3	1734.7	1735.5	1731.4	1730.6	1730.6
55°	1653.6	1660.2	1669.2	1643.8	1642.2	1640.5	1634.8	1621.7	1612.7	1611.1
57.5°	1555.4	1556.2	1558.7	1550.5	1553.7	1546.4	1521.8	1525.1	1522.6	1517.7
60°	1442.4	1452.2	1437.5	1431.8	1427.7	1425.2	1422.8	1409.7	1400.7	1400.7
62.5°	1325.4	1318.0	1321.3	1309.0	1313.9	1314.7	1291.0	1281.1	1270.5	1267.2
65°	1208.3	1198.5	1196.0	1197.6	1191.1	1172.3	1164.1	1158.4	1146.1	1142.8
67.5°	1084.7	1086.3	1081.4	1069.1	1059.3	1054.4	1038.8	1024.1	1013.5	1010.2
70°	961.1	959.4	961.9	947.1	951.2	941.4	921.8	904.6	899.7	889.8
72.5°	840.7	843.2	842.4	841.5	833.4	821.9	808.8	795.7	788.3	771.1
75°	726.9	736.8	729.4	722.8	717.9	711.4	704.0	678.6	664.7	655.7
77.5°	607.4	618.9	623.0	614.0	611.5	611.5	597.6	580.4	574.7	572.2
80°	491.2	504.3	514.1	514.9	514.1	510.0	506.7	504.3	501.8	499.4
82.5°	392.9	408.5	415.0	418.3	424.0	423.2	431.4	438.0	445.3	449.4
85°	303.7	317.6	331.5	343.0	349.6	357.7	367.6	383.9	409.3	431.4
87.5°	235.8	252.1	271.0	286.5	292.2	299.6	317.6	344.6	378.2	400.3
90°	197.3	215.3	233.3	248.9	255.4	265.2	285.7	310.3	339.7	354.5
92.5°	181.7	198.9	215.3	230.9	239.9	248.9	266.1	283.2	301.3	311.1
95°	173.5	189.1	204.7	219.4	226.8	234.9	246.4	261.1	273.4	279.2
97.5°	165.4	180.1	194.0	207.9	214.5	221.0	234.1	247.2	259.5	258.7
100°	158.0	171.9	184.2	196.5	202.2	207.9	218.6	224.3	227.6	228.4
102.5°	151.4	162.9	174.4	184.2	188.3	194.0	201.4	202.2	202.2	198.1
105°	143.3	154.7	164.5	171.1	175.2	177.6	179.3	178.5	175.2	173.5
107.5°	136.7	145.7	153.9	158.8	160.5	160.5	158.0	156.4	153.1	153.9
110°	130.2	138.3	144.1	146.5	147.4	147.4	145.7	143.3	141.6	141.6



TEST NUMBER: P241482

CATALOG NUMBER: FVS8M-3-LD4-35-3STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	125.2	132.6	137.5	140.0	140.8	140.8	140.8	140.0	139.2	138.3
115°	121.2	129.3	134.3	138.3	140.0	140.8	142.4	143.3	142.4	142.4
117.5°	120.3	127.7	135.1	140.0	142.4	144.1	146.5	148.2	147.4	146.5
120°	118.7	127.7	135.1	141.6	144.1	146.5	149.8	151.4	150.6	149.8
122.5°	117.9	126.9	135.1	142.4	144.9	147.4	151.4	153.1	152.3	152.3
125°	114.6	124.4	133.4	140.8	143.3	145.7	150.6	152.3	153.1	153.1
127.5°	110.5	120.3	129.3	136.7	140.0	143.3	147.4	149.8	151.4	151.4
130°	104.8	115.4	124.4	131.8	135.1	138.3	142.4	146.5	148.2	149.0
132.5°	99.1	108.9	117.9	126.1	129.3	132.6	137.5	140.8	143.3	144.1
135°	92.5	101.5	110.5	117.9	121.2	125.2	130.2	134.3	136.7	137.5
137.5°	85.1	94.1	102.3	109.7	113.0	116.2	122.8	126.9	129.3	130.2
140°	77.8	86.8	94.1	101.5	104.8	108.1	113.8	117.9	120.3	121.2
142.5°	71.2	78.6	86.0	92.5	95.8	99.1	104.0	108.1	109.7	111.3
145°	63.0	70.4	77.0	83.5	86.0	88.4	93.3	96.6	98.2	99.1
147.5°	55.7	62.2	68.8	73.7	76.1	78.6	82.7	85.1	87.6	87.6
150°	47.5	54.0	59.8	64.7	67.1	68.8	72.0	74.5	75.3	76.1
152.5°	39.3	45.0	50.8	54.8	56.5	58.9	61.4	63.9	64.7	65.5
155°	31.1	36.8	41.7	45.8	47.5	49.1	50.8	53.2	54.0	54.8
157.5°	24.6	28.7	32.7	36.8	37.7	39.3	40.9	42.6	43.4	43.4
160°	18.0	21.3	24.6	27.8	29.5	30.3	32.7	32.7	34.4	34.4
162.5°	12.3	14.7	17.2	19.6	20.5	22.1	23.7	24.6	25.4	25.4
165°	8.2	9.0	11.5	13.1	13.1	13.9	16.4	16.4	16.4	17.2
167.5°	4.1	4.9	5.7	7.4	7.4	8.2	9.0	9.8	9.8	9.8
170°	1.6	1.6	2.5	2.5	2.5	3.3	3.3	4.1	4.1	4.1
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)