

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: P241484

Luminaire Tested: **FVS8M-3-LD4-50-3STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241484
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-LD4-50-3STD-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH PA187 LENS
Light Source: (252) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

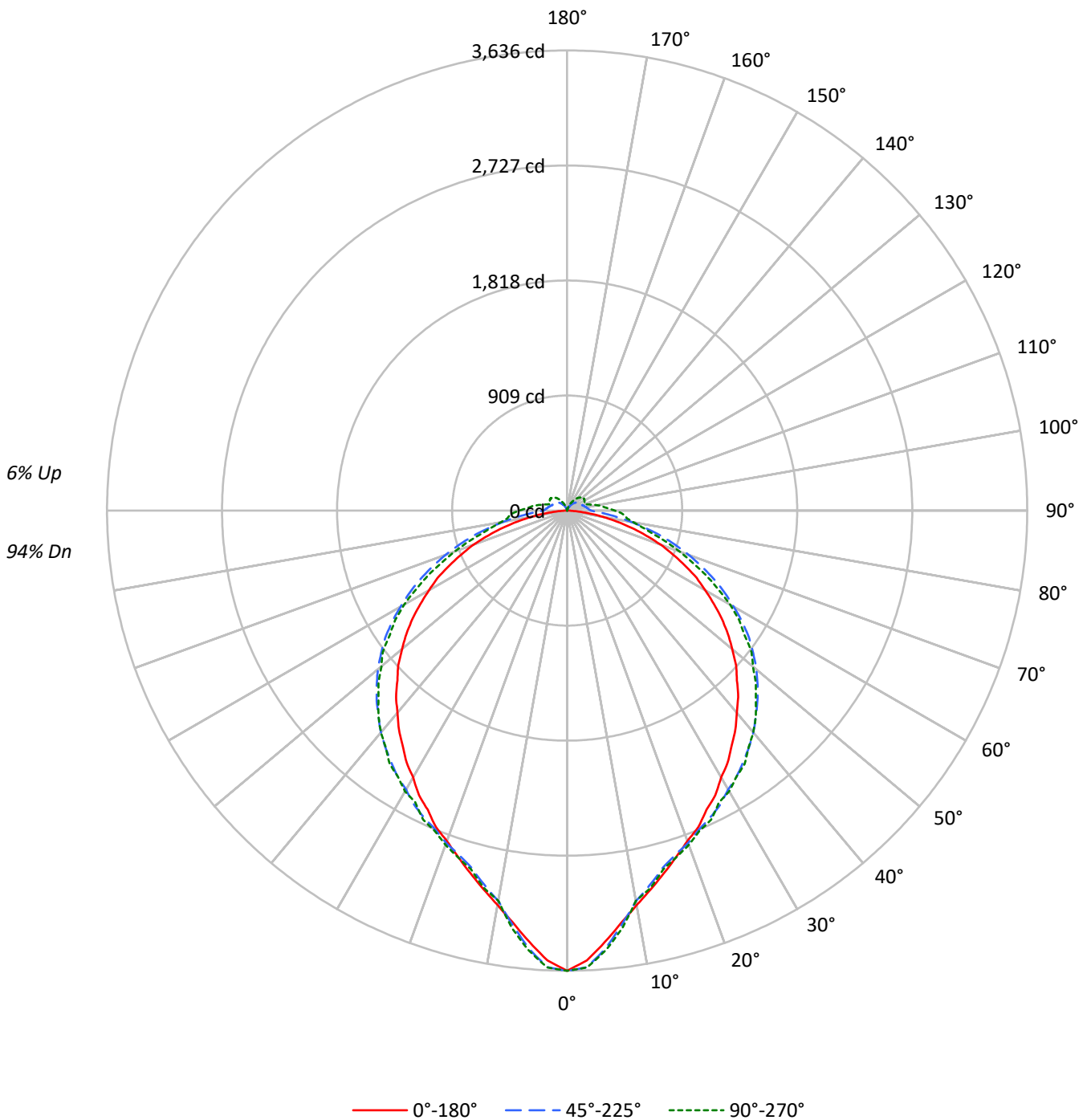
Lumens per Lamp: N/A
Luminaire Lumens: 9830.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

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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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°	21235	21235	21235
5°	19969	20016	20050
10°	18598	17955	17854
15°	17672	16777	16729
20°	16949	16211	16138
25°	16412	15797	15704
30°	15943	15420	15282
35°	15593	15200	15053
40°	15240	14987	14664
45°	14907	14693	14204
50°	14580	14378	13712
55°	14161	13968	13162
60°	13516	13267	12479
65°	12765	12436	11290
70°	11745	11322	9950
75°	9959	9988	8520
80°	7587	8168	7813
85°	3819	6363	8565



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	3.3
10°-20°	831.8	8.5
20°-30°	1229.1	12.5
30°-40°	1499.1	15.3
40°-50°	1595.9	16.2
50°-60°	1500.2	15.3
60°-70°	1188.1	12.1
70°-80°	738.9	7.5
80°-90°	325.8	3.3
90°-100°	173.2	1.8
100°-110°	127.6	1.3
110°-120°	99.5	1.0
120°-130°	86.4	0.9
130°-140°	62.2	0.6
140°-150°	35.0	0.4
150°-160°	13.8	0.1
160°-170°	2.8	0.0
170°-180°	0.1	0.0
0°-30°	2381.4	24.2
0°-40°	3880.5	39.5
0°-60°	6976.6	71.0
0°-90°	9229.5	93.9
90°-120°	400.3	4.1
90°-150°	583.9	5.9
90°-180°	600.0	6.1
0°-180°	9830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3636	3636	3636	3636	3636	
5°	3422	3446	3473	3492	3488	319
15°	2963	2948	2921	2922	2935	835
25°	2608	2643	2676	2682	2694	1205
35°	2266	2358	2425	2447	2446	1420
45°	1897	2012	2128	2125	2108	1468
55°	1492	1616	1756	1743	1710	1331
65°	1025	1145	1278	1264	1213	1016
75°	526	642	766	762	696	558
85°	90	193	308	371	458	118
90°	2	89	189	271	376	5
95°	1	74	167	241	296	1
105°	1	62	139	186	184	1
115°	1	54	119	149	151	1
125°	1	45	110	152	162	1
135°	2	33	87	129	146	1
145°	3	17	59	91	105	2
155°	3	7	29	50	58	1
165°	4	2	7	14	18	1
175°	0	0	0	0	0	0
180°	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°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3557.5	3564.4	3570.5	3574.0	3577.4	3587.0	3594.0	3594.8	3605.2	3613.1	3610.5
5°	3421.9	3428.0	3440.2	3446.3	3441.9	3446.3	3455.8	3459.3	3461.9	3465.4	3473.2
7.5°	3282.9	3279.5	3289.9	3287.3	3291.6	3289.0	3290.8	3289.9	3298.6	3300.3	3301.2
10°	3164.8	3168.3	3170.0	3163.1	3162.2	3164.8	3159.6	3154.4	3151.8	3138.7	3132.7
12.5°	3062.3	3062.3	3063.2	3050.1	3044.0	3039.7	3045.8	3044.0	3032.7	3021.5	3028.4
15°	2963.3	2965.9	2967.6	2958.0	2950.2	2948.5	2951.1	2933.7	2935.5	2941.5	2920.7
17.5°	2868.6	2879.0	2874.6	2863.3	2863.3	2863.3	2860.7	2857.3	2860.7	2854.7	2848.6
20°	2778.2	2780.8	2779.9	2785.2	2785.2	2784.3	2783.4	2785.2	2792.1	2778.2	2794.7
22.5°	2707.8	2710.4	2714.8	2705.2	2702.6	2699.2	2706.1	2726.1	2720.0	2730.4	2726.1
25°	2607.9	2608.8	2607.9	2617.5	2633.1	2642.7	2649.6	2651.4	2656.6	2672.2	2675.7
27.5°	2535.8	2536.7	2548.0	2552.3	2561.0	2571.5	2573.2	2587.1	2601.0	2607.1	2620.1
30°	2434.2	2446.4	2448.1	2470.7	2494.1	2502.0	2507.2	2521.9	2532.4	2548.9	2545.4
32.5°	2361.2	2368.2	2384.7	2398.6	2415.1	2421.2	2435.1	2457.6	2473.3	2489.8	2492.4
35°	2265.7	2269.1	2285.6	2309.1	2344.7	2357.7	2373.4	2377.7	2401.2	2419.4	2424.6
37.5°	2183.1	2189.2	2210.9	2231.8	2251.8	2270.0	2290.9	2313.4	2332.5	2347.3	2358.6
40°	2085.0	2089.3	2114.5	2141.4	2179.7	2197.9	2204.8	2238.7	2259.6	2272.6	2289.1
42.5°	2000.7	2005.0	2027.6	2054.6	2082.4	2108.4	2124.9	2157.1	2178.8	2194.4	2206.6
45°	1897.3	1906.9	1927.7	1964.2	2002.4	2012.0	2030.2	2061.5	2091.0	2118.0	2127.5
47.5°	1809.6	1813.0	1838.2	1863.4	1901.7	1922.5	1944.2	1971.2	2006.8	2025.0	2041.5
50°	1702.7	1714.0	1734.9	1767.9	1802.6	1821.7	1846.9	1881.7	1910.3	1935.5	1952.0
52.5°	1600.2	1606.3	1630.6	1665.4	1704.5	1727.0	1745.3	1780.9	1820.0	1842.6	1853.0
55°	1492.5	1499.4	1526.4	1560.2	1597.6	1615.8	1638.4	1677.5	1716.6	1737.5	1755.7
57.5°	1375.2	1390.0	1414.3	1450.8	1483.8	1502.0	1526.4	1570.7	1604.6	1627.1	1641.0
60°	1259.7	1270.1	1296.2	1328.3	1375.2	1396.1	1415.2	1454.3	1482.9	1508.1	1521.2
62.5°	1153.7	1158.9	1182.3	1212.8	1251.8	1271.0	1292.7	1335.2	1364.8	1386.5	1402.1
65°	1025.1	1039.0	1060.7	1089.4	1126.7	1145.0	1166.7	1209.3	1241.4	1267.5	1277.9
67.5°	905.2	908.7	936.5	969.5	1006.9	1024.2	1042.5	1083.3	1114.6	1135.4	1148.5
70°	784.5	786.2	815.7	840.1	880.9	900.0	915.6	951.3	987.8	1005.1	1019.9
72.5°	652.4	660.2	690.6	716.7	749.7	767.1	790.5	825.3	854.8	876.6	887.8
75°	525.6	532.5	554.3	589.0	622.9	642.0	664.6	697.6	721.9	748.8	766.2
77.5°	403.1	422.2	433.5	463.9	502.1	524.7	540.4	570.8	595.1	616.8	630.7
80°	291.0	295.4	318.8	346.6	383.1	397.9	415.3	448.3	472.6	496.9	512.6
82.5°	182.4	191.1	214.6	240.6	271.9	286.7	303.2	334.5	361.4	380.5	401.4
85°	90.3	99.0	120.8	145.1	179.0	192.9	208.5	237.2	262.4	283.2	307.5
87.5°	30.4	37.4	56.5	80.8	109.5	122.5	136.4	162.5	185.0	210.2	230.2
90°	1.7	8.7	26.1	49.5	75.6	88.6	101.6	122.5	145.9	167.7	189.4
92.5°	0.9	6.9	22.6	44.3	68.6	79.9	90.3	112.1	134.7	154.6	174.6
95°	0.9	6.1	20.8	40.8	62.5	73.8	85.1	106.9	128.6	148.6	166.8
97.5°	0.9	5.2	19.1	38.2	59.1	70.4	80.8	102.5	122.5	141.6	159.0
100°	0.9	5.2	18.2	36.5	56.5	66.9	77.3	98.2	117.3	134.7	151.2
102.5°	0.9	5.2	17.4	34.7	54.7	64.3	74.7	93.8	112.1	128.6	145.1
105°	0.9	4.3	16.5	33.9	53.0	62.5	71.2	90.3	106.9	123.4	139.0
107.5°	0.9	4.3	15.6	32.1	50.4	59.9	69.5	86.9	103.4	119.0	132.9
110°	0.9	3.5	14.8	31.3	48.6	58.2	66.9	84.3	99.9	114.7	126.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	3.5	13.9	29.5	46.9	56.5	65.2	81.7	97.3	110.3	122.5
115°	0.9	2.6	13.0	27.8	45.2	53.9	62.5	79.1	93.8	106.9	119.0
117.5°	0.9	2.6	12.2	26.9	43.4	52.1	59.9	76.4	91.2	105.1	116.4
120°	0.9	2.6	11.3	25.2	41.7	49.5	58.2	73.8	89.5	102.5	114.7
122.5°	0.9	1.7	10.4	23.5	39.1	46.9	55.6	71.2	86.0	99.9	112.9
125°	0.9	1.7	9.6	22.6	37.4	45.2	53.0	67.8	83.4	96.4	109.5
127.5°	1.7	1.7	8.7	20.8	34.7	42.6	49.5	65.2	79.1	92.1	105.1
130°	1.7	1.7	7.8	18.2	32.1	40.0	46.9	60.8	74.7	86.9	99.9
132.5°	1.7	1.7	6.9	16.5	29.5	36.5	43.4	56.5	69.5	81.7	93.8
135°	1.7	1.7	5.2	14.8	26.1	33.0	39.1	52.1	64.3	75.6	86.9
137.5°	1.7	1.7	4.3	12.2	22.6	28.7	34.7	46.9	59.1	69.5	80.8
140°	1.7	1.7	3.5	10.4	20.0	25.2	30.4	41.7	53.0	63.4	73.8
142.5°	2.6	1.7	3.5	8.7	16.5	21.7	26.1	35.6	46.0	56.5	66.0
145°	2.6	1.7	2.6	6.9	13.9	17.4	21.7	30.4	40.0	49.5	59.1
147.5°	2.6	2.6	2.6	5.2	11.3	14.8	18.2	26.1	33.9	42.6	50.4
150°	2.6	2.6	1.7	4.3	8.7	11.3	14.8	20.8	27.8	35.6	42.6
152.5°	2.6	2.6	1.7	3.5	6.9	8.7	11.3	17.4	22.6	28.7	35.6
155°	2.6	2.6	2.6	2.6	5.2	6.9	8.7	13.0	18.2	22.6	28.7
157.5°	2.6	2.6	2.6	2.6	3.5	5.2	6.1	9.6	13.0	17.4	21.7
160°	3.5	2.6	2.6	1.7	2.6	3.5	4.3	6.9	9.6	13.0	15.6
162.5°	3.5	3.5	2.6	2.6	1.7	2.6	3.5	4.3	6.1	8.7	10.4
165°	3.5	3.5	2.6	2.6	1.7	1.7	2.6	2.6	4.3	5.2	6.9
167.5°	3.5	3.5	2.6	2.6	1.7	1.7	1.7	1.7	2.6	2.6	3.5
170°	3.5	3.5	2.6	2.6	1.7	1.7	1.7	1.7	0.9	0.9	1.7
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°	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5	3636.5
2.5°	3615.7	3609.6	3613.1	3613.9	3616.5	3620.0	3611.3	3610.5	3613.1	3613.1
5°	3474.1	3481.9	3481.0	3488.0	3492.3	3488.8	3489.7	3492.3	3495.8	3488.0
7.5°	3294.2	3299.5	3309.0	3302.1	3310.7	3306.4	3319.4	3311.6	3326.4	3329.0
10°	3132.7	3133.5	3144.8	3149.2	3159.6	3143.9	3139.6	3136.1	3126.6	3130.9
12.5°	3014.5	2998.0	2985.0	2992.8	3005.8	3015.4	3032.7	3044.0	3049.3	3051.0
15°	2912.9	2929.4	2937.2	2936.3	2922.4	2918.1	2915.5	2918.9	2928.5	2934.6
17.5°	2867.7	2855.5	2844.2	2870.3	2885.9	2895.5	2896.4	2890.3	2886.8	2871.2
20°	2779.9	2804.3	2827.7	2807.7	2793.8	2789.5	2785.2	2799.9	2809.5	2810.4
22.5°	2743.5	2760.0	2727.8	2758.2	2773.9	2778.2	2767.8	2754.8	2745.2	2737.4
25°	2682.6	2675.7	2709.6	2690.5	2681.8	2673.1	2686.1	2692.2	2690.5	2693.9
27.5°	2607.9	2634.0	2609.7	2627.9	2646.2	2653.1	2632.3	2614.9	2601.9	2598.4
30°	2565.4	2546.3	2589.7	2578.4	2562.8	2554.9	2552.3	2558.4	2560.2	2561.9
32.5°	2496.7	2516.7	2497.6	2491.5	2508.9	2515.9	2519.3	2503.7	2499.3	2490.7
35°	2432.5	2436.8	2433.3	2459.4	2447.2	2441.1	2437.7	2443.7	2447.2	2445.5
37.5°	2382.9	2360.3	2395.1	2371.6	2381.2	2385.5	2389.9	2373.4	2368.2	2355.1
40°	2291.7	2310.0	2292.6	2311.7	2311.7	2300.4	2282.2	2278.7	2282.2	2288.2
42.5°	2217.0	2218.7	2243.1	2213.5	2206.6	2205.7	2217.0	2214.4	2201.4	2207.5
45°	2140.6	2148.4	2124.1	2118.8	2124.9	2119.7	2103.2	2100.6	2107.5	2108.4
47.5°	2047.6	2058.0	2032.8	2031.1	2023.3	2015.5	2025.0	2031.1	2023.3	2021.5
50°	1960.7	1940.8	1947.7	1934.7	1938.1	1944.2	1924.2	1912.1	1912.1	1915.6
52.5°	1857.4	1863.4	1849.5	1865.2	1852.1	1840.8	1841.7	1837.4	1836.5	1836.5
55°	1754.8	1761.8	1771.3	1744.4	1742.7	1740.9	1734.9	1721.0	1711.4	1709.7
57.5°	1650.6	1651.5	1654.1	1645.4	1648.9	1641.0	1615.0	1618.5	1615.8	1610.6
60°	1530.7	1541.1	1525.5	1519.4	1515.1	1512.5	1509.9	1496.0	1486.4	1486.4
62.5°	1406.5	1398.7	1402.1	1389.1	1394.3	1395.2	1370.0	1359.6	1348.3	1344.8
65°	1282.3	1271.8	1269.2	1271.0	1264.0	1244.0	1235.3	1229.3	1216.2	1212.8
67.5°	1151.1	1152.8	1147.6	1134.6	1124.1	1118.9	1102.4	1086.8	1075.5	1072.0
70°	1019.9	1018.2	1020.8	1005.1	1009.5	999.0	978.2	960.0	954.7	944.3
72.5°	892.2	894.8	893.9	893.1	884.4	872.2	858.3	844.4	836.6	818.3
75°	771.4	781.9	774.0	767.1	761.9	754.9	747.1	720.2	705.4	695.9
77.5°	644.6	656.8	661.1	651.6	648.9	648.9	634.2	615.9	609.9	607.2
80°	521.2	535.1	545.6	546.4	545.6	541.2	537.7	535.1	532.5	529.9
82.5°	417.0	433.5	440.4	443.9	450.0	449.1	457.8	464.8	472.6	476.9
85°	322.3	337.1	351.8	364.0	370.9	379.6	390.1	407.4	434.4	457.8
87.5°	250.2	267.6	287.6	304.1	310.1	318.0	337.1	365.7	401.4	424.8
90°	209.4	228.5	247.6	264.1	271.0	281.5	303.2	329.3	360.5	376.2
92.5°	192.9	211.1	228.5	245.0	254.5	264.1	282.3	300.6	319.7	330.1
95°	184.2	200.7	217.2	232.8	240.6	249.3	261.5	277.1	290.2	296.2
97.5°	175.5	191.1	205.9	220.7	227.6	234.6	248.5	262.4	275.4	274.5
100°	167.7	182.4	195.5	208.5	214.6	220.7	232.0	238.0	241.5	242.4
102.5°	160.7	172.9	185.0	195.5	199.8	205.9	213.7	214.6	214.6	210.2
105°	152.0	164.2	174.6	181.6	185.9	188.5	190.3	189.4	185.9	184.2
107.5°	145.1	154.6	163.3	168.5	170.3	170.3	167.7	165.9	162.5	163.3
110°	138.1	146.8	152.9	155.5	156.4	156.4	154.6	152.0	150.3	150.3



TEST NUMBER: P241484

CATALOG NUMBER: FVS8M-3-LD4-50-3STD-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	132.9	140.7	145.9	148.6	149.4	149.4	149.4	148.6	147.7	146.8
115°	128.6	137.3	142.5	146.8	148.6	149.4	151.2	152.0	151.2	151.2
117.5°	127.7	135.5	143.3	148.6	151.2	152.9	155.5	157.2	156.4	155.5
120°	126.0	135.5	143.3	150.3	152.9	155.5	159.0	160.7	159.8	159.0
122.5°	125.1	134.7	143.3	151.2	153.8	156.4	160.7	162.5	161.6	161.6
125°	121.6	132.0	141.6	149.4	152.0	154.6	159.8	161.6	162.5	162.5
127.5°	117.3	127.7	137.3	145.1	148.6	152.0	156.4	159.0	160.7	160.7
130°	111.2	122.5	132.0	139.9	143.3	146.8	151.2	155.5	157.2	158.1
132.5°	105.1	115.5	125.1	133.8	137.3	140.7	145.9	149.4	152.0	152.9
135°	98.2	107.7	117.3	125.1	128.6	132.9	138.1	142.5	145.1	145.9
137.5°	90.3	99.9	108.6	116.4	119.9	123.4	130.3	134.7	137.3	138.1
140°	82.5	92.1	99.9	107.7	111.2	114.7	120.8	125.1	127.7	128.6
142.5°	75.6	83.4	91.2	98.2	101.6	105.1	110.3	114.7	116.4	118.1
145°	66.9	74.7	81.7	88.6	91.2	93.8	99.0	102.5	104.2	105.1
147.5°	59.1	66.0	73.0	78.2	80.8	83.4	87.7	90.3	93.0	93.0
150°	50.4	57.3	63.4	68.6	71.2	73.0	76.4	79.1	79.9	80.8
152.5°	41.7	47.8	53.9	58.2	59.9	62.5	65.2	67.8	68.6	69.5
155°	33.0	39.1	44.3	48.6	50.4	52.1	53.9	56.5	57.3	58.2
157.5°	26.1	30.4	34.7	39.1	40.0	41.7	43.4	45.2	46.0	46.0
160°	19.1	22.6	26.1	29.5	31.3	32.1	34.7	34.7	36.5	36.5
162.5°	13.0	15.6	18.2	20.8	21.7	23.5	25.2	26.1	26.9	26.9
165°	8.7	9.6	12.2	13.9	13.9	14.8	17.4	17.4	17.4	18.2
167.5°	4.3	5.2	6.1	7.8	7.8	8.7	9.6	10.4	10.4	10.4
170°	1.7	1.7	2.6	2.6	2.6	3.5	3.5	4.3	4.3	4.3
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)