

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: P241512

Luminaire Tested: **FVS8M-4-LD4-50-2HI-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-4-LD4-50-2HI-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

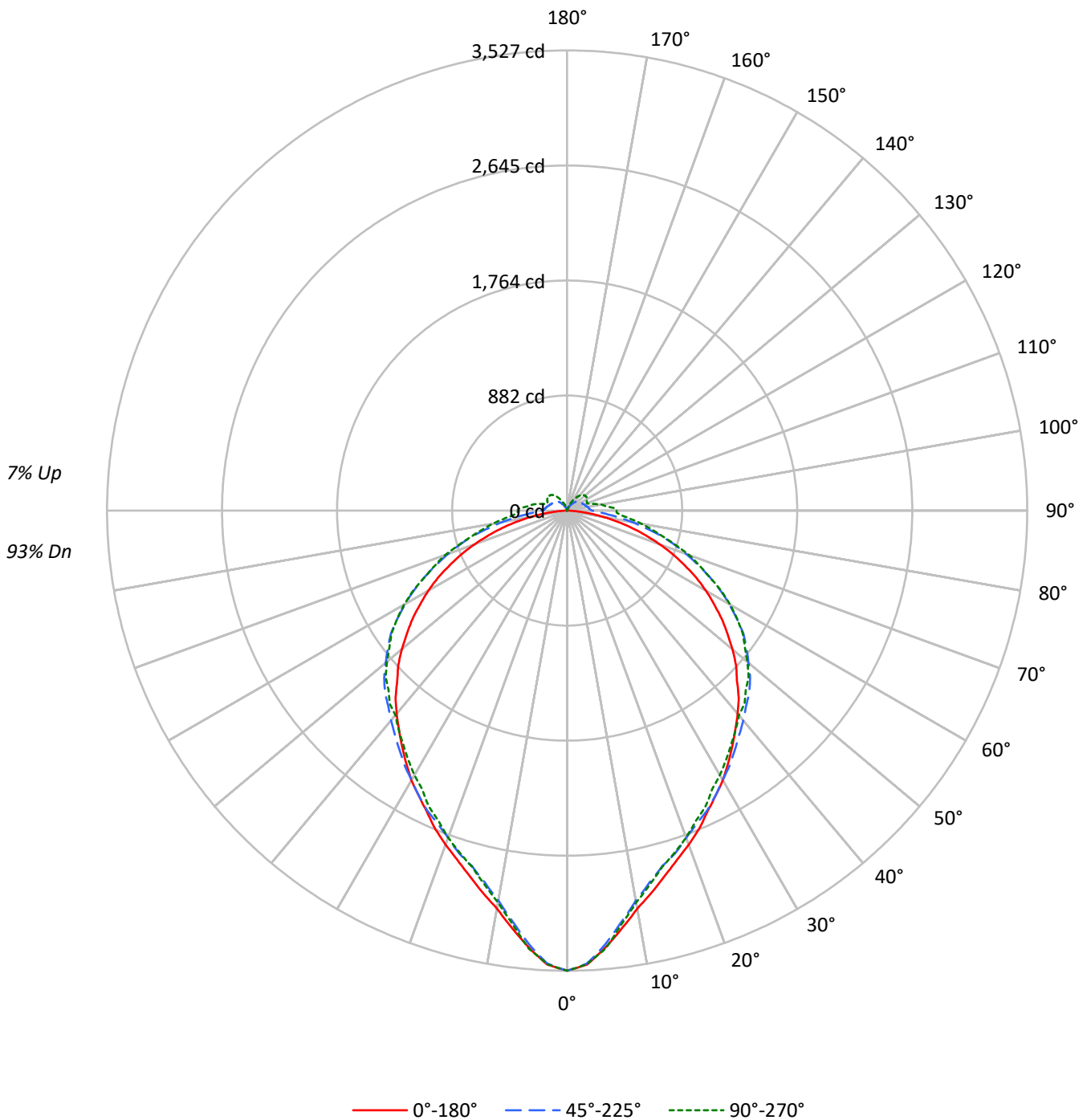
Lumens per Lamp: N/A
Luminaire Lumens: 9439.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.99 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 85.4
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	101	97	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	79	73	80	75	70	76	72	68	72	68	65	63
3	88	77	68	61	84	74	67	60	70	64	58	67	61	57	63	59	55	52
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	44
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	38	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°	15761	15761	15761
5°	15038	14736	14824
10°	13959	13337	13313
15°	13263	12427	12324
20°	12773	11878	11719
25°	12325	11508	11182
30°	12046	11106	10688
35°	11714	10805	10318
40°	11485	10587	10044
45°	11197	10508	9990
50°	10985	10315	9874
55°	10676	10140	9676
60°	10282	9672	9269
65°	9700	9086	8574
70°	8885	8362	8017
75°	7711	7547	7056
80°	5981	6256	6514
85°	3133	4924	5957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.6	3.3
10°-20°	805.2	8.5
20°-30°	1169.2	12.4
30°-40°	1395.9	14.8
40°-50°	1494.9	15.8
50°-60°	1420.7	15.1
60°-70°	1143.0	12.1
70°-80°	731.8	7.8
80°-90°	321.7	3.4
90°-100°	179.7	1.9
100°-110°	135.5	1.4
110°-120°	108.4	1.1
120°-130°	95.8	1.0
130°-140°	70.4	0.7
140°-150°	38.7	0.4
150°-160°	14.6	0.2
160°-170°	2.9	0.0
170°-180°	0.0	0.0
0°-30°	2284.9	24.2
0°-40°	3680.8	39.0
0°-60°	6596.3	69.9
0°-90°	8792.9	93.2
90°-120°	423.6	4.5
90°-150°	628.5	6.7
90°-180°	646.0	6.8
0°-180°	9439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3527	3527	3527	3527	3527	
5°	3363	3352	3338	3353	3370	313
15°	2896	2876	2820	2829	2825	817
25°	2545	2548	2538	2519	2506	1176
35°	2206	2257	2240	2235	2190	1382
45°	1841	1916	1974	1974	1938	1426
55°	1447	1530	1649	1646	1642	1290
65°	994	1091	1204	1219	1203	985
75°	512	609	743	786	753	543
85°	88	177	302	378	416	116
90°	1	82	190	268	379	4
95°	1	75	171	253	324	1
105°	1	66	147	197	197	1
115°	1	58	129	162	166	1
125°	1	49	120	172	180	1
135°	2	35	96	150	170	1
145°	2	18	61	103	123	1
155°	2	6	29	54	63	1
165°	3	2	7	15	20	1
175°	0	0	0	0	0	0
180°	0	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°	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6
2.5°	3484.0	3493.4	3486.1	3484.0	3483.0	3489.2	3488.2	3490.2	3489.2	3478.8	3475.7
5°	3363.4	3368.6	3362.3	3363.4	3354.0	3351.9	3356.1	3363.4	3356.1	3357.1	3338.4
7.5°	3228.2	3230.2	3218.8	3207.4	3205.3	3214.6	3212.6	3205.3	3199.0	3184.5	3181.4
10°	3097.1	3104.4	3089.8	3077.4	3072.2	3073.2	3070.1	3055.5	3054.5	3045.1	3035.8
12.5°	2997.3	3003.5	2987.9	2974.4	2969.2	2965.0	2971.3	2950.5	2946.3	2937.0	2919.3
15°	2896.4	2892.2	2894.3	2876.6	2876.6	2875.6	2870.4	2859.0	2848.6	2836.1	2820.5
17.5°	2804.9	2810.1	2799.7	2786.2	2785.1	2787.2	2786.2	2784.1	2775.8	2760.2	2755.0
20°	2723.8	2719.6	2708.2	2712.3	2710.2	2709.2	2711.3	2699.8	2687.4	2682.2	2667.6
22.5°	2641.6	2634.3	2627.0	2631.2	2631.2	2620.8	2625.0	2620.8	2611.4	2609.4	2595.8
25°	2544.9	2557.4	2551.1	2541.8	2544.9	2548.0	2557.4	2556.3	2552.2	2551.1	2537.6
27.5°	2464.8	2470.0	2461.7	2461.7	2481.4	2486.6	2485.6	2475.2	2476.2	2455.4	2461.7
30°	2386.8	2381.6	2386.8	2397.2	2399.3	2400.3	2398.2	2403.4	2394.1	2393.0	2384.7
32.5°	2296.3	2297.4	2304.6	2300.5	2318.2	2323.4	2326.5	2341.0	2339.0	2327.5	2317.1
35°	2205.8	2218.3	2213.1	2214.2	2257.8	2256.8	2258.9	2259.9	2245.4	2229.8	2240.2
37.5°	2117.4	2126.8	2123.7	2147.6	2160.1	2159.0	2158.0	2167.4	2174.6	2167.4	2167.4
40°	2033.2	2023.8	2037.4	2058.2	2065.4	2080.0	2097.7	2110.2	2109.1	2100.8	2099.8
42.5°	1946.9	1942.7	1952.1	1962.5	1995.8	2012.4	2022.8	2024.9	2014.5	2025.9	2030.1
45°	1840.8	1854.3	1846.0	1883.4	1907.4	1915.7	1921.9	1938.6	1954.2	1960.4	1973.9
47.5°	1755.5	1758.6	1760.7	1793.0	1808.6	1824.2	1835.6	1863.7	1886.6	1897.0	1902.2
50°	1653.6	1647.4	1667.1	1686.9	1722.2	1741.0	1756.6	1770.1	1790.9	1808.6	1814.8
52.5°	1547.5	1550.6	1563.1	1586.0	1628.6	1645.3	1651.5	1673.4	1697.3	1716.0	1732.6
55°	1446.6	1450.8	1458.1	1494.5	1517.4	1529.8	1550.6	1583.9	1611.0	1624.5	1649.4
57.5°	1334.3	1341.6	1355.1	1380.1	1410.2	1432.1	1448.7	1482.0	1510.1	1524.6	1541.3
60°	1228.2	1222.0	1253.2	1269.8	1307.3	1331.2	1339.5	1366.6	1396.7	1419.6	1433.1
62.5°	1117.0	1114.9	1131.5	1161.7	1193.9	1207.4	1218.9	1259.4	1281.3	1307.3	1325.0
65°	994.2	1004.6	1015.0	1048.3	1075.4	1091.0	1109.7	1144.0	1173.1	1196.0	1204.3
67.5°	878.8	885.0	907.9	930.8	958.9	972.4	996.3	1027.5	1056.6	1076.4	1084.7
70°	753.0	762.3	787.3	813.3	844.5	855.9	872.6	906.9	933.9	959.9	969.3
72.5°	631.3	638.6	664.6	686.4	722.8	741.5	756.1	787.3	811.2	835.1	857.0
75°	511.7	525.2	546.0	566.8	603.2	609.4	625.0	660.4	689.5	716.6	742.6
77.5°	399.4	407.7	420.2	455.5	477.4	491.9	506.5	540.8	574.1	593.8	614.6
80°	283.9	295.4	308.9	330.7	363.0	377.5	390.0	422.2	453.4	477.4	501.3
82.5°	182.0	186.2	204.9	225.7	260.0	268.3	280.8	313.0	341.1	369.2	393.1
85°	88.4	98.8	114.4	138.3	164.3	176.8	189.3	221.5	250.6	277.7	301.6
87.5°	29.1	35.4	52.0	72.8	98.8	113.4	124.8	153.9	181.0	209.0	234.0
90°	1.0	8.3	23.9	44.7	69.7	82.2	95.7	121.7	147.7	171.6	190.3
92.5°	1.0	6.2	20.8	41.6	65.5	78.0	90.5	115.4	139.4	158.1	176.8
95°	1.0	5.2	19.8	40.6	62.4	74.9	87.4	110.2	131.0	151.8	170.6
97.5°	1.0	5.2	18.7	38.5	60.3	72.8	83.2	105.0	125.8	145.6	165.4
100°	1.0	5.2	17.7	37.4	58.2	69.7	80.1	100.9	121.7	140.4	159.1
102.5°	1.0	4.2	17.7	36.4	56.2	66.6	77.0	97.8	117.5	135.2	152.9
105°	1.0	4.2	16.6	34.3	55.1	65.5	74.9	94.6	113.4	131.0	146.6
107.5°	1.0	3.1	15.6	33.3	53.0	63.4	73.8	92.6	110.2	126.9	141.4
110°	1.0	3.1	15.6	32.2	52.0	62.4	71.8	90.5	108.2	123.8	136.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	3.1	14.6	31.2	49.9	60.3	69.7	88.4	105.0	119.6	132.1
115°	1.0	2.1	13.5	30.2	48.9	58.2	67.6	86.3	103.0	116.5	129.0
117.5°	1.0	2.1	12.5	29.1	46.8	56.2	65.5	83.2	99.8	114.4	126.9
120°	1.0	2.1	11.4	27.0	44.7	54.1	63.4	81.1	97.8	111.3	124.8
122.5°	1.0	2.1	10.4	25.0	42.6	52.0	61.4	78.0	94.6	109.2	122.7
125°	1.0	1.0	9.4	23.9	40.6	48.9	58.2	74.9	91.5	106.1	119.6
127.5°	1.0	1.0	8.3	21.8	37.4	46.8	55.1	71.8	87.4	101.9	115.4
130°	1.0	1.0	7.3	19.8	35.4	43.7	51.0	67.6	83.2	96.7	110.2
132.5°	1.0	1.0	6.2	16.6	31.2	38.5	46.8	62.4	78.0	90.5	103.0
135°	2.1	1.0	4.2	14.6	28.1	35.4	41.6	56.2	70.7	83.2	95.7
137.5°	2.1	1.0	3.1	12.5	23.9	30.2	36.4	49.9	63.4	75.9	88.4
140°	2.1	2.1	3.1	9.4	19.8	26.0	32.2	43.7	56.2	67.6	79.0
142.5°	2.1	2.1	2.1	7.3	16.6	21.8	26.0	37.4	48.9	59.3	69.7
145°	2.1	2.1	2.1	6.2	13.5	17.7	21.8	31.2	41.6	51.0	61.4
147.5°	2.1	2.1	2.1	4.2	10.4	14.6	17.7	26.0	34.3	43.7	52.0
150°	2.1	2.1	2.1	3.1	8.3	11.4	14.6	21.8	29.1	36.4	43.7
152.5°	2.1	2.1	2.1	2.1	6.2	8.3	11.4	16.6	22.9	30.2	36.4
155°	2.1	2.1	2.1	2.1	4.2	6.2	8.3	13.5	18.7	23.9	29.1
157.5°	3.1	2.1	2.1	2.1	3.1	4.2	6.2	9.4	13.5	18.7	22.9
160°	3.1	2.1	2.1	2.1	2.1	3.1	4.2	7.3	10.4	13.5	16.6
162.5°	3.1	3.1	2.1	2.1	2.1	2.1	2.1	4.2	6.2	9.4	11.4
165°	3.1	3.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	5.2	7.3
167.5°	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	2.1	2.1	3.1
170°	3.1	3.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0
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°	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6	3526.6
2.5°	3472.6	3477.8	3481.9	3479.8	3480.9	3489.2	3475.7	3480.9	3483.0	3479.8
5°	3340.5	3343.6	3354.0	3357.1	3353.0	3356.1	3357.1	3362.3	3370.6	3369.6
7.5°	3178.2	3186.6	3184.5	3191.8	3194.9	3197.0	3198.0	3199.0	3198.0	3198.0
10°	3027.4	3036.8	3042.0	3051.4	3048.2	3050.3	3045.1	3052.4	3047.2	3050.3
12.5°	2928.6	2929.7	2912.0	2920.3	2918.2	2920.3	2929.7	2921.4	2929.7	2933.8
15°	2817.4	2819.4	2830.9	2834.0	2828.8	2825.7	2830.9	2835.0	2833.0	2824.6
17.5°	2752.9	2749.8	2752.9	2757.0	2757.0	2760.2	2756.0	2761.2	2748.7	2746.6
20°	2678.0	2681.1	2689.4	2686.3	2672.8	2665.5	2665.5	2661.4	2659.3	2666.6
22.5°	2605.2	2608.3	2600.0	2600.0	2606.2	2603.1	2599.0	2588.6	2574.0	2575.0
25°	2539.7	2535.5	2542.8	2535.5	2518.9	2519.9	2509.5	2512.6	2509.5	2506.4
27.5°	2448.2	2463.8	2458.6	2457.5	2456.5	2464.8	2446.1	2437.8	2425.3	2407.6
30°	2384.7	2375.4	2386.8	2379.5	2373.3	2357.7	2351.4	2336.9	2340.0	2341.0
32.5°	2321.3	2320.2	2313.0	2288.0	2289.0	2288.0	2288.0	2278.6	2266.2	2266.2
35°	2230.8	2238.1	2220.4	2237.0	2235.0	2216.2	2202.7	2196.5	2196.5	2190.2
37.5°	2170.5	2153.8	2157.0	2147.6	2143.4	2147.6	2148.6	2134.1	2134.1	2120.6
40°	2102.9	2105.0	2092.5	2097.7	2105.0	2088.3	2083.1	2055.0	2045.7	2047.8
42.5°	2034.2	2042.6	2056.1	2046.7	2032.2	2020.7	2011.4	2014.5	2008.2	2011.4
45°	1978.1	1981.2	1984.3	1962.5	1973.9	1977.0	1961.4	1947.9	1944.8	1937.5
47.5°	1914.6	1927.1	1902.2	1908.4	1899.0	1884.5	1883.4	1882.4	1890.7	1885.5
50°	1828.3	1834.6	1833.5	1816.9	1813.8	1816.9	1829.4	1815.8	1805.4	1802.3
52.5°	1739.9	1736.8	1738.9	1744.1	1748.2	1743.0	1724.3	1715.0	1711.8	1717.0
55°	1660.9	1656.7	1648.4	1654.6	1646.3	1644.2	1645.3	1647.4	1646.3	1642.2
57.5°	1550.6	1557.9	1574.6	1545.4	1548.6	1556.9	1560.0	1547.5	1541.3	1544.4
60°	1438.3	1446.6	1444.6	1455.0	1452.9	1441.4	1440.4	1440.4	1443.5	1442.5
62.5°	1328.1	1335.4	1328.1	1334.3	1328.1	1328.1	1326.0	1332.2	1327.0	1330.2
65°	1216.8	1217.8	1229.3	1222.0	1218.9	1225.1	1207.4	1198.1	1199.1	1203.3
67.5°	1097.2	1106.6	1108.6	1110.7	1104.5	1099.3	1088.9	1088.9	1095.1	1094.1
70°	979.7	993.2	996.3	992.2	985.9	983.8	989.0	1000.5	1007.8	994.2
72.5°	867.4	884.0	886.1	883.0	891.3	896.5	888.2	872.6	862.2	865.3
75°	753.0	765.4	775.8	783.1	786.2	779.0	765.4	756.1	748.8	753.0
77.5°	637.5	653.1	663.5	663.5	664.6	667.7	664.6	664.6	661.4	662.5
80°	523.1	543.9	543.9	560.6	565.8	562.6	573.0	574.1	576.2	577.2
82.5°	422.2	436.8	446.2	460.7	470.1	471.1	481.5	483.6	487.8	491.9
85°	325.5	341.1	358.8	371.3	377.5	384.8	397.3	400.4	413.9	416.0
87.5°	250.6	267.3	285.0	302.6	309.9	314.1	325.5	340.1	364.0	378.6
90°	208.0	227.8	246.5	261.0	268.3	275.6	293.3	316.2	353.6	378.6
92.5°	197.6	216.3	230.9	247.5	257.9	267.3	292.2	323.4	356.7	369.2
95°	190.3	208.0	224.6	243.4	252.7	263.1	285.0	304.7	320.3	324.5
97.5°	182.0	198.6	215.3	233.0	242.3	249.6	264.2	274.6	283.9	287.0
100°	174.7	190.3	207.0	221.5	227.8	234.0	245.4	257.9	265.2	267.3
102.5°	167.4	182.0	195.5	207.0	213.2	218.4	227.8	231.9	231.9	230.9
105°	161.2	173.7	184.1	193.4	196.6	200.7	203.8	200.7	197.6	196.6
107.5°	153.9	164.3	172.6	178.9	181.0	182.0	181.0	177.8	175.8	174.7
110°	147.7	157.0	163.3	167.4	168.5	168.5	167.4	165.4	163.3	162.2



TEST NUMBER: P241512

CATALOG NUMBER: FVS8M-4-LD4-50-2HI-PA187-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	142.5	150.8	157.0	160.2	161.2	162.2	164.3	163.3	162.2	162.2
115°	139.4	147.7	155.0	160.2	162.2	164.3	167.4	167.4	167.4	166.4
117.5°	137.3	147.7	156.0	162.2	166.4	169.5	173.7	174.7	172.6	171.6
120°	137.3	147.7	157.0	166.4	169.5	173.7	177.8	178.9	176.8	175.8
122.5°	135.2	147.7	158.1	167.4	172.6	176.8	181.0	181.0	179.9	178.9
125°	133.1	145.6	156.0	166.4	171.6	175.8	181.0	182.0	181.0	179.9
127.5°	129.0	141.4	152.9	163.3	167.4	171.6	177.8	181.0	181.0	179.9
130°	123.8	137.3	147.7	158.1	163.3	167.4	174.7	177.8	177.8	177.8
132.5°	116.5	130.0	140.4	151.8	157.0	162.2	169.5	172.6	174.7	174.7
135°	109.2	120.6	133.1	143.5	149.8	155.0	163.3	166.4	168.5	169.5
137.5°	100.9	111.3	122.7	134.2	140.4	145.6	155.0	158.1	161.2	162.2
140°	91.5	101.9	113.4	123.8	129.0	134.2	142.5	146.6	150.8	150.8
142.5°	81.1	92.6	103.0	112.3	116.5	121.7	129.0	133.1	136.2	137.3
145°	71.8	82.2	90.5	99.8	103.0	107.1	113.4	117.5	121.7	122.7
147.5°	62.4	71.8	80.1	87.4	90.5	93.6	97.8	101.9	105.0	106.1
150°	52.0	59.3	67.6	74.9	78.0	80.1	84.2	86.3	89.4	90.5
152.5°	42.6	49.9	56.2	63.4	65.5	67.6	70.7	73.8	74.9	75.9
155°	34.3	39.5	45.8	52.0	54.1	56.2	59.3	61.4	62.4	63.4
157.5°	27.0	31.2	35.4	40.6	43.7	45.8	47.8	49.9	51.0	52.0
160°	19.8	23.9	27.0	30.2	33.3	34.3	38.5	39.5	39.5	40.6
162.5°	14.6	16.6	19.8	21.8	22.9	25.0	28.1	28.1	30.2	29.1
165°	8.3	10.4	12.5	13.5	14.6	15.6	18.7	19.8	19.8	19.8
167.5°	4.2	5.2	6.2	7.3	7.3	8.3	9.4	11.4	11.4	11.4
170°	1.0	1.0	2.1	2.1	2.1	2.1	3.1	4.2	4.2	4.2
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)