

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: P241404

Luminaire Tested: **FVS8M-4-LD4-50-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-38)
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-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH P125 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

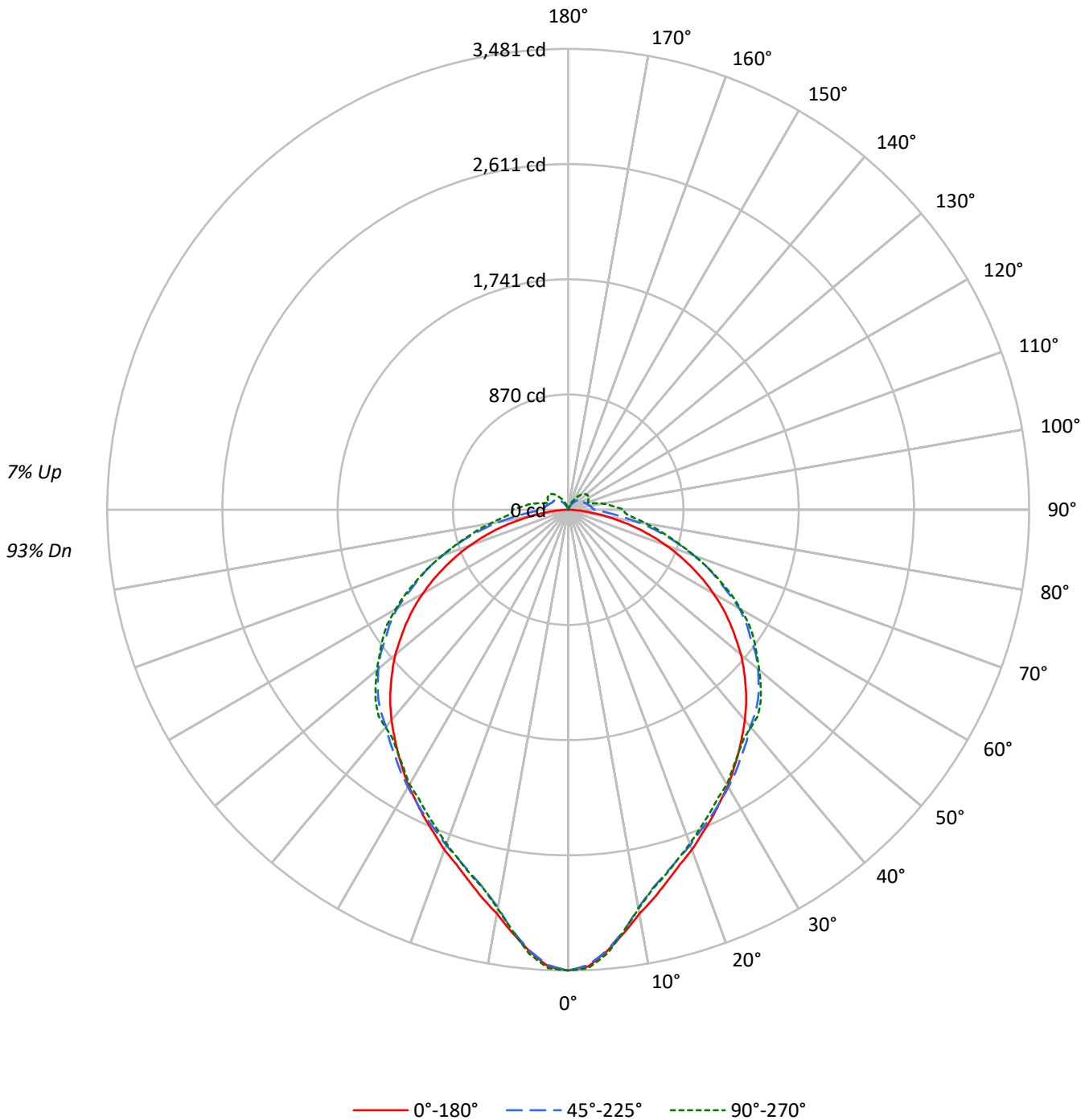
Lumens per Lamp: N/A
Luminaire Lumens: 9667.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.02 / 1.27
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

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

TEST NUMBER: P241404

CATALOG NUMBER: FVS8M-4-LD4-50-2HI-P125-UNV-EDC1

Luminous Intensity Polar Plot





TEST NUMBER: P241404

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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	96	92	103	98	94	90	93	89	86	87	85	82	83	81	79	76
2	96	87	80	74	93	85	78	73	80	75	70	76	71	67	72	68	65	62
3	87	76	68	61	84	74	66	60	70	64	58	67	61	56	63	59	55	52
4	80	67	58	51	77	66	57	51	62	55	49	59	53	48	56	51	47	44
5	73	60	51	44	71	59	50	44	56	48	42	53	46	41	50	45	40	38
6	68	54	45	38	65	53	44	38	50	43	37	48	41	36	46	40	35	33
7	63	49	40	34	60	48	39	33	46	38	33	44	37	32	42	36	31	29
8	58	45	36	30	56	44	35	30	42	34	29	40	33	29	38	32	28	26
9	54	41	33	27	53	40	32	27	38	31	26	37	30	26	35	30	25	23
10	51	38	30	24	49	37	29	24	35	29	24	34	28	23	33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15557	15557	15557
5°	14973	14759	14816
10°	13969	13405	13350
15°	13282	12532	12442
20°	12817	12003	11802
25°	12436	11584	11280
30°	12167	11266	10935
35°	11902	10981	10559
40°	11720	10786	10524
45°	11533	10796	10597
50°	11324	10635	10325
55°	10998	10319	10092
60°	10604	10065	9676
65°	10025	9408	8974
70°	9290	8703	8160
75°	8102	7769	7338
80°	6265	6554	6702
85°	3501	5110	6434



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.7	3.2
10°-20°	809.1	8.4
20°-30°	1180.0	12.2
30°-40°	1421.8	14.7
40°-50°	1542.0	16.0
50°-60°	1469.6	15.2
60°-70°	1184.9	12.3
70°-80°	757.8	7.8
80°-90°	338.8	3.5
90°-100°	188.0	1.9
100°-110°	137.1	1.4
110°-120°	108.0	1.1
120°-130°	95.6	1.0
130°-140°	69.9	0.7
140°-150°	37.9	0.4
150°-160°	13.5	0.1
160°-170°	2.2	0.0
170°-180°	0.0	0.0
0°-30°	2299.8	23.8
0°-40°	3721.6	38.5
0°-60°	6733.2	69.7
0°-90°	9014.8	93.3
90°-120°	433.1	4.5
90°-150°	636.5	6.6
90°-180°	652.0	6.7
0°-180°	9667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3481	3481	3481	3481	3481	
5°	3349	3349	3344	3368	3368	312
15°	2901	2890	2844	2855	2852	819
25°	2568	2571	2554	2549	2528	1184
35°	2241	2274	2277	2267	2241	1404
45°	1896	1954	2028	2061	2055	1463
55°	1490	1589	1679	1716	1713	1332
65°	1028	1143	1247	1260	1260	1018
75°	538	640	764	802	783	568
85°	99	188	313	395	449	123
90°	1	92	200	283	420	5
95°	1	81	180	259	330	1
105°	1	69	154	192	190	1
115°	1	60	131	156	167	1
125°	1	50	124	165	183	1
135°	2	33	101	146	167	2
145°	2	15	63	102	116	1
155°	2	3	26	52	59	1
165°	3	1	3	10	16	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241404

CATALOG NUMBER: FVS8M-4-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9
2.5°	3453.9	3453.9	3453.9	3448.7	3448.7	3454.9	3454.9	3458.1	3452.9	3447.7	3443.5
5°	3348.9	3345.7	3338.5	3339.5	3343.7	3348.9	3347.8	3357.2	3354.1	3347.8	3343.7
7.5°	3224.1	3217.8	3214.7	3214.7	3211.6	3216.8	3213.7	3220.9	3214.7	3209.5	3208.5
10°	3099.3	3099.3	3099.3	3090.9	3092.0	3090.9	3084.7	3080.5	3075.3	3058.7	3051.4
12.5°	3001.5	2999.4	2991.1	2984.9	2984.9	2980.7	2981.7	2973.4	2959.9	2940.1	2931.8
15°	2900.6	2903.7	2900.6	2891.3	2893.3	2890.2	2887.1	2876.7	2870.5	2850.7	2844.5
17.5°	2808.1	2816.4	2810.1	2799.7	2796.6	2794.5	2795.6	2791.4	2778.9	2770.6	2764.4
20°	2733.2	2731.1	2725.9	2717.6	2725.9	2722.8	2722.8	2718.6	2711.3	2702.0	2695.7
22.5°	2645.8	2647.9	2641.6	2641.6	2646.8	2650.0	2643.7	2641.6	2636.4	2625.0	2620.8
25°	2567.8	2569.9	2565.7	2563.6	2567.8	2570.9	2570.9	2570.9	2566.8	2559.5	2554.3
27.5°	2485.6	2492.9	2487.7	2487.7	2496.0	2502.3	2505.4	2500.2	2498.1	2489.8	2486.7
30°	2410.8	2403.5	2406.6	2418.0	2422.2	2429.5	2434.7	2435.7	2425.3	2422.2	2419.1
32.5°	2325.5	2328.6	2322.4	2334.8	2351.5	2359.8	2359.8	2357.7	2354.6	2353.6	2351.5
35°	2241.2	2243.3	2245.4	2261.0	2269.3	2274.5	2282.8	2290.1	2284.9	2279.7	2276.6
37.5°	2157.0	2161.2	2165.3	2176.8	2187.2	2197.6	2206.9	2217.3	2215.2	2208.0	2211.1
40°	2074.8	2080.0	2078.0	2085.2	2114.4	2124.8	2128.9	2138.3	2139.3	2130.0	2139.3
42.5°	1989.6	1989.6	1988.5	2011.4	2029.1	2039.5	2040.5	2061.3	2069.6	2078.0	2088.4
45°	1896.0	1898.0	1907.4	1923.0	1938.6	1954.2	1969.8	1993.7	2003.1	2015.6	2028.0
47.5°	1800.3	1801.3	1816.9	1827.3	1859.6	1877.2	1889.7	1902.2	1917.8	1931.3	1950.0
50°	1704.6	1708.8	1708.8	1742.0	1768.0	1775.3	1786.8	1806.5	1836.7	1855.4	1871.0
52.5°	1594.3	1604.8	1612.0	1639.1	1659.9	1676.5	1696.3	1730.6	1752.4	1769.1	1783.6
55°	1490.3	1485.1	1514.3	1522.6	1566.3	1589.1	1603.7	1627.6	1641.2	1659.9	1678.6
57.5°	1384.3	1383.2	1399.9	1422.7	1469.5	1479.9	1484.1	1513.2	1549.6	1576.7	1594.3
60°	1266.7	1271.9	1282.3	1325.0	1344.7	1355.1	1377.0	1422.7	1448.7	1476.8	1491.4
62.5°	1151.3	1152.3	1181.5	1204.3	1230.3	1256.3	1279.2	1305.2	1319.8	1344.7	1361.4
65°	1027.5	1033.8	1065.0	1080.6	1129.5	1143.0	1151.3	1177.3	1201.2	1231.4	1247.0
67.5°	910.0	916.3	941.2	961.0	1003.6	1007.8	1022.3	1061.9	1099.3	1122.2	1137.8
70°	787.3	798.7	810.2	846.6	869.5	885.1	905.9	949.5	963.1	990.1	1008.8
72.5°	663.5	673.9	686.4	715.5	744.7	762.3	786.3	811.2	826.8	851.8	884.0
75°	537.7	548.1	565.8	589.7	621.9	639.6	652.1	675.0	712.4	741.5	764.4
77.5°	411.8	418.1	443.0	463.8	502.3	513.8	531.4	559.5	594.9	624.0	644.8
80°	297.4	305.8	322.4	347.4	376.5	394.2	407.7	442.0	477.4	498.2	525.2
82.5°	189.3	197.6	217.4	242.3	268.3	283.9	301.6	333.8	364.0	385.8	411.8
85°	98.8	106.1	124.8	150.8	173.7	188.2	205.9	238.2	261.0	288.1	313.0
87.5°	31.2	39.5	58.2	83.2	109.2	122.7	137.3	167.4	190.3	217.4	240.2
90°	1.0	8.3	27.0	51.0	78.0	91.5	105.0	131.0	155.0	177.8	199.7
92.5°	1.0	7.3	25.0	47.8	72.8	85.3	97.8	121.7	145.6	167.4	186.2
95°	1.0	6.2	22.9	45.8	69.7	81.1	93.6	116.5	139.4	160.2	179.9
97.5°	1.0	6.2	21.8	42.6	65.5	77.0	89.4	112.3	134.2	153.9	173.7
100°	1.0	5.2	19.8	40.6	62.4	73.8	85.3	108.2	129.0	148.7	166.4
102.5°	1.0	4.2	18.7	38.5	60.3	70.7	82.2	104.0	123.8	143.5	160.2
105°	1.0	4.2	16.6	36.4	58.2	68.6	80.1	100.9	120.6	138.3	153.9
107.5°	1.0	3.1	15.6	34.3	56.2	66.6	78.0	97.8	116.5	133.1	147.7
110°	1.0	3.1	14.6	33.3	54.1	64.5	74.9	95.7	113.4	129.0	140.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	2.1	13.5	31.2	52.0	62.4	72.8	92.6	110.2	123.8	135.2
115°	1.0	2.1	12.5	30.2	49.9	60.3	70.7	89.4	106.1	120.6	131.0
117.5°	1.0	1.0	11.4	28.1	47.8	57.2	67.6	87.4	104.0	117.5	129.0
120°	1.0	1.0	9.4	26.0	44.7	55.1	65.5	84.2	101.9	116.5	129.0
122.5°	1.0	1.0	8.3	23.9	42.6	53.0	62.4	81.1	98.8	114.4	126.9
125°	1.0	1.0	7.3	21.8	39.5	49.9	59.3	78.0	95.7	111.3	123.8
127.5°	1.0	1.0	6.2	19.8	36.4	45.8	56.2	73.8	91.5	106.1	119.6
130°	1.0	1.0	4.2	16.6	33.3	42.6	52.0	69.7	86.3	100.9	114.4
132.5°	2.1	1.0	3.1	14.6	30.2	38.5	46.8	64.5	81.1	94.6	108.2
135°	2.1	1.0	2.1	11.4	26.0	33.3	41.6	57.2	73.8	88.4	100.9
137.5°	2.1	2.1	2.1	9.4	21.8	28.1	35.4	51.0	65.5	80.1	93.6
140°	2.1	2.1	1.0	7.3	17.7	23.9	30.2	43.7	57.2	70.7	84.2
142.5°	2.1	2.1	1.0	5.2	13.5	18.7	25.0	36.4	49.9	62.4	73.8
145°	2.1	2.1	1.0	3.1	10.4	14.6	19.8	30.2	41.6	52.0	63.4
147.5°	2.1	2.1	1.0	2.1	7.3	11.4	14.6	23.9	33.3	42.6	52.0
150°	2.1	2.1	1.0	2.1	5.2	7.3	11.4	18.7	26.0	34.3	42.6
152.5°	2.1	2.1	2.1	1.0	3.1	5.2	8.3	13.5	20.8	27.0	34.3
155°	2.1	2.1	2.1	1.0	2.1	3.1	5.2	9.4	14.6	20.8	26.0
157.5°	3.1	2.1	2.1	1.0	1.0	2.1	3.1	6.2	10.4	14.6	18.7
160°	3.1	2.1	2.1	1.0	1.0	1.0	2.1	3.1	6.2	9.4	12.5
162.5°	3.1	3.1	2.1	1.0	1.0	1.0	1.0	2.1	3.1	5.2	7.3
165°	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	2.1	3.1
167.5°	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0
170°	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	0.0	0.0	0.0
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°	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9	3480.9
2.5°	3443.5	3454.9	3463.3	3466.4	3467.4	3465.3	3469.5	3470.5	3469.5	3466.4
5°	3344.7	3356.1	3365.5	3368.6	3367.6	3371.7	3369.7	3370.7	3369.7	3367.6
7.5°	3197.0	3200.1	3204.3	3199.1	3205.3	3206.4	3198.1	3203.3	3205.3	3210.5
10°	3051.4	3053.5	3056.6	3054.5	3056.6	3056.6	3056.6	3057.7	3061.8	3058.7
12.5°	2930.8	2934.9	2946.4	2943.3	2948.5	2954.7	2947.4	2942.2	2949.5	2937.0
15°	2846.5	2849.7	2851.7	2848.6	2854.9	2851.7	2849.7	2844.5	2850.7	2851.7
17.5°	2767.5	2765.4	2772.7	2766.5	2767.5	2765.4	2764.4	2757.1	2755.0	2763.3
20°	2696.8	2691.6	2686.4	2690.5	2695.7	2691.6	2690.5	2685.3	2686.4	2685.3
22.5°	2618.8	2625.0	2629.2	2628.1	2622.9	2625.0	2617.7	2609.4	2608.4	2603.2
25°	2556.4	2558.4	2556.4	2556.4	2549.1	2546.0	2549.1	2540.8	2532.4	2528.3
27.5°	2488.8	2489.8	2489.8	2481.5	2479.4	2477.3	2470.0	2463.8	2457.6	2452.4
30°	2414.9	2421.2	2413.9	2418.0	2416.0	2408.7	2403.5	2395.2	2388.9	2395.2
32.5°	2350.4	2346.3	2346.3	2343.2	2341.1	2343.2	2332.8	2319.2	2313.0	2314.0
35°	2277.6	2277.6	2281.8	2274.5	2267.2	2265.2	2255.8	2252.7	2240.2	2241.2
37.5°	2211.1	2209.0	2211.1	2209.0	2204.8	2203.8	2186.1	2189.2	2186.1	2177.8
40°	2151.8	2159.1	2161.2	2147.6	2152.8	2157.0	2144.5	2146.6	2141.4	2145.6
42.5°	2101.9	2107.1	2115.4	2113.3	2109.2	2104.0	2113.3	2116.4	2111.2	2117.5
45°	2042.6	2052.0	2053.0	2062.4	2061.3	2057.2	2058.2	2055.1	2049.9	2055.1
47.5°	1962.5	1969.8	1976.0	1977.1	1984.4	1984.4	1977.1	1980.2	1986.4	1971.9
50°	1883.5	1886.6	1893.9	1889.7	1892.8	1897.0	1894.9	1886.6	1886.6	1884.5
52.5°	1796.1	1803.4	1804.4	1806.5	1805.5	1796.1	1798.2	1798.2	1790.9	1794.0
55°	1698.4	1715.0	1721.2	1717.1	1716.0	1719.2	1711.9	1724.4	1711.9	1712.9
57.5°	1606.8	1610.0	1618.3	1619.3	1616.2	1623.5	1620.4	1619.3	1616.2	1622.4
60°	1501.8	1504.9	1504.9	1498.7	1507.0	1498.7	1501.8	1499.7	1509.1	1505.9
62.5°	1375.9	1384.3	1391.5	1380.1	1381.1	1378.0	1377.0	1377.0	1385.3	1388.4
65°	1257.4	1256.3	1266.7	1259.5	1260.5	1262.6	1250.1	1257.4	1257.4	1259.5
67.5°	1150.3	1148.2	1144.0	1140.9	1139.9	1138.8	1135.7	1129.5	1133.6	1136.7
70°	1021.3	1033.8	1027.5	1027.5	1025.5	1023.4	1027.5	1007.8	1010.9	1011.9
72.5°	899.6	905.9	915.2	919.4	916.3	911.1	906.9	899.6	891.3	893.4
75°	779.0	785.2	797.7	800.8	801.9	798.7	800.8	794.6	790.4	783.1
77.5°	662.5	672.9	680.2	692.7	692.7	693.7	698.9	696.8	690.6	692.7
80°	541.9	553.3	568.9	582.4	587.6	589.7	591.8	590.7	592.8	593.9
82.5°	428.5	456.6	464.9	479.4	485.7	487.8	498.2	502.3	505.4	511.7
85°	335.9	355.7	375.4	389.0	395.2	400.4	410.8	424.3	441.0	449.3
87.5°	262.1	279.8	298.5	315.1	325.5	333.8	350.5	377.5	407.7	426.4
90°	218.4	237.1	256.9	273.5	282.9	292.2	317.2	351.5	396.2	420.2
92.5°	204.9	224.6	241.3	259.0	268.3	278.7	304.7	335.9	364.0	373.4
95°	198.6	217.4	231.9	248.6	259.0	269.4	290.2	309.9	324.5	329.7
97.5°	191.4	208.0	222.6	239.2	246.5	254.8	272.5	288.1	299.5	304.7
100°	183.0	198.6	211.1	224.6	229.8	237.1	252.7	264.2	269.4	266.2
102.5°	175.8	187.2	198.6	208.0	212.2	217.4	225.7	227.8	226.7	223.6
105°	166.4	176.8	184.1	189.3	192.4	194.5	196.6	195.5	193.4	190.3
107.5°	158.1	165.4	170.6	171.6	173.7	174.7	175.8	173.7	170.6	169.5
110°	149.8	156.0	159.1	160.2	160.2	161.2	162.2	162.2	160.2	159.1



TEST NUMBER: P241404

CATALOG NUMBER: FVS8M-4-LD4-50-2HI-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	143.5	148.7	151.8	153.9	155.0	156.0	159.1	161.2	160.2	160.2
115°	139.4	145.6	150.8	153.9	156.0	158.1	163.3	166.4	167.4	167.4
117.5°	138.3	146.6	152.9	158.1	160.2	163.3	168.5	172.6	173.7	173.7
120°	139.4	147.7	155.0	161.2	164.3	167.4	172.6	176.8	178.9	179.9
122.5°	138.3	147.7	156.0	163.3	166.4	169.5	174.7	179.9	182.0	182.0
125°	135.2	145.6	153.9	162.2	165.4	168.5	174.7	179.9	183.0	183.0
127.5°	131.0	141.4	150.8	159.1	162.2	166.4	172.6	177.8	182.0	182.0
130°	125.8	137.3	146.6	155.0	158.1	162.2	168.5	174.7	177.8	178.9
132.5°	119.6	131.0	140.4	148.7	152.9	156.0	163.3	169.5	172.6	174.7
135°	113.4	123.8	133.1	142.5	145.6	149.8	156.0	161.2	165.4	167.4
137.5°	105.0	115.4	124.8	133.1	136.2	140.4	146.6	151.8	156.0	157.0
140°	95.7	106.1	115.4	122.7	126.9	130.0	136.2	140.4	143.5	144.6
142.5°	85.3	95.7	104.0	111.3	114.4	117.5	122.7	126.9	130.0	131.0
145°	73.8	84.2	91.5	98.8	101.9	104.0	109.2	112.3	116.5	116.5
147.5°	62.4	71.8	80.1	86.3	88.4	91.5	95.7	98.8	99.8	100.9
150°	51.0	59.3	67.6	73.8	75.9	78.0	81.1	84.2	86.3	86.3
152.5°	40.6	47.8	55.1	62.4	63.4	65.5	68.6	70.7	72.8	72.8
155°	32.2	37.4	42.6	48.9	52.0	54.1	56.2	58.2	59.3	59.3
157.5°	23.9	28.1	32.2	37.4	39.5	42.6	44.7	45.8	46.8	47.8
160°	15.6	19.8	22.9	27.0	29.1	31.2	33.3	35.4	36.4	36.4
162.5°	9.4	12.5	14.6	17.7	18.7	19.8	23.9	25.0	25.0	25.0
165°	5.2	6.2	8.3	9.4	10.4	11.4	13.5	15.6	15.6	15.6
167.5°	1.0	2.1	3.1	3.1	4.2	4.2	5.2	7.3	7.3	7.3
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
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)