

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: P241376

Luminaire Tested: **FVS8M-3-LD4-50-3STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-28)
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-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

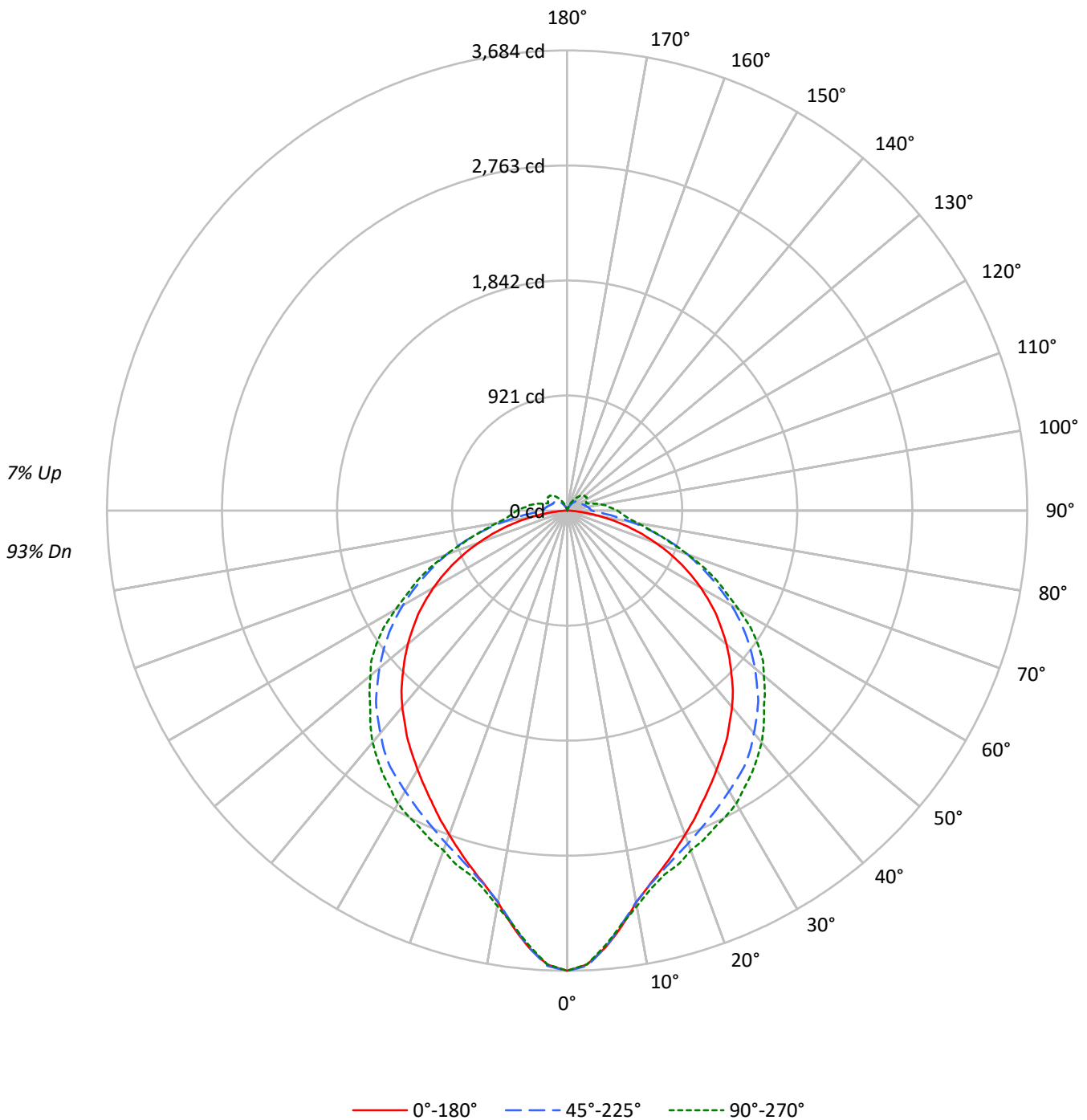
Lumens per Lamp: N/A
Luminaire Lumens: 10039.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	101	97	93	103	98	94	90	93	90	86	88	85	83	83	81	79	76
2	96	88	81	75	93	85	79	73	81	75	71	76	72	68	72	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	53	48	57	51	47	45
5	74	61	51	45	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	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°	21514	21514	21514
5°	20491	20236	20084
10°	18715	18233	18334
15°	17656	17101	17189
20°	16843	16443	16621
25°	16171	16002	16311
30°	15681	15709	16163
35°	15342	15576	15838
40°	15011	15225	15527
45°	14626	14945	15011
50°	14260	14455	14713
55°	13856	13941	14345
60°	13254	13251	13324
65°	12452	12351	12316
70°	11250	11380	10828
75°	9696	9932	9360
80°	7201	8236	8377
85°	3709	6290	8597



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	3.2
10°-20°	843.8	8.4
20°-30°	1248.8	12.4
30°-40°	1528.7	15.2
40°-50°	1625.4	16.2
50°-60°	1523.9	15.2
60°-70°	1199.9	12.0
70°-80°	744.4	7.4
80°-90°	330.9	3.3
90°-100°	187.9	1.9
100°-110°	141.1	1.4
110°-120°	107.7	1.1
120°-130°	96.4	1.0
130°-140°	73.1	0.7
140°-150°	42.2	0.4
150°-160°	16.7	0.2
160°-170°	3.7	0.0
170°-180°	0.1	0.0
0°-30°	2416.9	24.1
0°-40°	3945.6	39.3
0°-60°	7094.8	70.7
0°-90°	9370.1	93.3
90°-120°	436.7	4.3
90°-150°	648.4	6.5
90°-180°	669.0	6.7
0°-180°	10039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3684	3684	3684	3684	3684	
5°	3511	3514	3511	3496	3494	325
15°	2961	2953	2977	3009	3015	834
25°	2570	2635	2710	2787	2798	1186
35°	2229	2331	2484	2564	2573	1393
45°	1862	1997	2164	2219	2228	1438
55°	1460	1589	1752	1832	1863	1301
65°	1000	1112	1269	1305	1323	987
75°	512	616	762	788	764	541
85°	88	185	304	387	460	112
90°	2	90	196	283	402	5
95°	1	82	182	258	330	1
105°	1	70	151	203	215	1
115°	1	61	129	154	168	1
125°	1	53	122	165	187	1
135°	2	42	105	148	169	1
145°	3	25	75	107	121	1
155°	3	10	36	59	66	1
165°	4	4	10	19	23	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°	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2
2.5°	3637.3	3643.4	3643.4	3644.2	3642.5	3647.7	3646.0	3646.8	3648.6	3651.2	3648.6
5°	3511.3	3514.8	3511.3	3514.8	3512.2	3513.9	3515.7	3511.3	3513.9	3507.0	3511.3
7.5°	3354.1	3350.6	3343.7	3337.6	3336.7	3336.7	3338.4	3342.8	3345.4	3342.8	3340.2
10°	3184.7	3189.9	3189.0	3184.7	3184.7	3184.7	3189.0	3187.3	3180.3	3182.1	3181.2
12.5°	3063.1	3065.7	3060.5	3057.9	3051.8	3057.9	3053.5	3050.9	3062.2	3067.4	3066.5
15°	2960.6	2957.1	2957.1	2952.7	2950.1	2952.7	2954.5	2957.1	2964.0	2971.9	2977.1
17.5°	2858.9	2861.5	2859.8	2859.8	2863.3	2861.5	2869.3	2879.8	2891.9	2898.0	2899.7
20°	2760.8	2762.5	2768.6	2768.6	2776.4	2782.5	2789.4	2801.6	2810.3	2825.0	2834.6
22.5°	2666.9	2666.9	2674.8	2686.9	2696.5	2706.0	2716.5	2733.0	2739.9	2756.4	2769.4
25°	2569.6	2574.9	2587.9	2601.8	2620.0	2634.8	2645.2	2659.1	2680.8	2693.0	2710.4
27.5°	2481.0	2492.3	2500.1	2522.7	2544.4	2558.3	2571.4	2591.4	2610.5	2631.3	2651.3
30°	2394.2	2401.1	2414.1	2440.2	2470.6	2485.4	2492.3	2521.9	2541.8	2573.1	2593.1
32.5°	2309.0	2317.7	2335.1	2355.9	2391.6	2406.3	2421.1	2454.1	2479.3	2509.7	2539.2
35°	2229.1	2230.0	2254.3	2281.2	2313.4	2330.7	2345.5	2379.4	2415.0	2448.0	2484.5
37.5°	2136.2	2148.3	2165.7	2197.0	2229.1	2251.7	2270.8	2304.7	2349.0	2384.6	2410.7
40°	2053.6	2063.2	2080.6	2110.1	2144.0	2167.4	2188.3	2232.6	2273.4	2307.3	2325.5
42.5°	1964.1	1966.8	1991.9	2025.8	2061.4	2082.3	2105.7	2151.8	2187.4	2216.9	2246.5
45°	1861.6	1875.5	1900.7	1933.7	1977.2	1997.2	2021.5	2064.9	2104.9	2134.4	2164.0
47.5°	1763.5	1777.4	1802.6	1839.9	1883.4	1902.5	1926.8	1964.1	2012.8	2042.3	2059.7
50°	1665.3	1680.1	1706.1	1740.9	1784.3	1801.7	1822.5	1872.1	1909.4	1938.1	1962.4
52.5°	1559.3	1575.8	1600.2	1640.1	1680.1	1700.9	1715.7	1762.6	1800.8	1839.1	1857.3
55°	1460.3	1463.8	1493.3	1530.7	1568.0	1588.9	1608.0	1651.4	1692.2	1723.5	1752.2
57.5°	1347.4	1354.3	1378.6	1421.2	1455.1	1475.9	1494.2	1539.4	1571.5	1608.8	1639.3
60°	1235.3	1242.3	1264.8	1296.1	1332.6	1356.1	1375.2	1419.5	1456.0	1490.7	1519.4
62.5°	1118.0	1129.3	1149.3	1178.0	1214.5	1237.0	1255.3	1296.1	1334.3	1361.3	1396.0
65°	999.9	1003.4	1027.7	1059.8	1092.8	1111.9	1133.7	1170.1	1205.8	1239.6	1269.2
67.5°	878.3	884.3	901.7	934.7	969.5	991.2	1009.4	1045.1	1085.9	1116.3	1144.1
70°	751.4	761.9	781.0	813.1	847.0	867.8	878.3	916.5	952.1	992.9	1025.1
72.5°	632.4	641.1	663.7	685.4	721.9	738.4	757.5	791.4	828.7	862.6	898.2
75°	511.7	523.0	536.0	563.8	595.1	615.9	638.5	664.6	704.5	736.7	761.9
77.5°	393.5	397.9	419.6	449.1	477.8	496.9	508.2	542.1	581.2	616.8	640.2
80°	276.2	284.9	308.4	335.3	358.8	380.5	392.7	424.8	464.8	497.8	516.9
82.5°	173.7	182.4	205.0	228.5	257.1	276.2	288.4	323.2	358.8	387.4	405.7
85°	87.7	98.2	117.3	138.1	171.1	185.0	198.9	228.5	264.1	283.2	304.0
87.5°	28.7	36.5	55.6	77.3	104.2	119.9	132.0	164.2	189.4	212.8	231.9
90°	1.7	9.6	26.9	50.4	76.4	89.5	104.2	131.2	155.5	177.2	196.3
92.5°	0.9	7.8	24.3	46.9	72.1	85.1	98.2	123.4	145.1	165.9	187.6
95°	0.9	6.9	23.5	45.2	69.5	81.7	93.8	117.3	139.9	161.6	182.4
97.5°	0.9	6.1	21.7	43.4	66.9	78.2	89.5	112.1	134.6	155.5	174.6
100°	0.9	6.1	20.8	41.7	63.4	74.7	86.0	108.6	128.6	148.5	166.8
102.5°	0.9	6.1	20.0	40.0	60.8	71.2	82.5	103.4	123.4	142.5	159.0
105°	0.9	5.2	19.1	37.4	58.2	69.5	79.1	99.0	118.1	134.6	151.2
107.5°	0.9	5.2	18.2	36.5	56.5	66.0	76.4	95.6	112.9	129.4	144.2
110°	0.9	4.3	17.4	34.7	54.7	64.3	73.8	92.1	109.5	124.2	137.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	4.3	16.5	33.0	53.0	62.5	72.1	90.3	106.0	120.8	132.9
115°	0.9	4.3	15.6	32.1	51.3	60.8	70.4	87.7	103.4	117.3	128.6
117.5°	0.9	3.5	14.8	31.3	49.5	59.1	68.6	85.1	101.6	114.7	126.0
120°	0.9	3.5	13.9	29.5	47.8	57.3	66.0	83.4	99.9	112.9	124.2
122.5°	0.9	3.5	13.0	28.7	46.0	54.7	64.3	81.7	97.3	112.1	123.4
125°	0.9	2.6	13.0	27.8	44.3	53.0	62.5	79.1	95.6	109.5	121.6
127.5°	1.7	2.6	12.2	26.1	42.6	50.4	59.1	76.4	92.1	106.9	118.1
130°	1.7	2.6	10.4	24.3	40.0	47.8	56.5	73.0	88.6	102.5	114.7
132.5°	1.7	1.7	9.6	22.6	37.4	45.2	53.0	69.5	84.3	98.2	110.3
135°	1.7	1.7	8.7	20.0	34.7	41.7	49.5	65.2	79.9	93.0	105.1
137.5°	1.7	1.7	6.9	18.2	30.4	37.4	45.2	59.9	73.8	86.0	99.0
140°	1.7	1.7	6.1	15.6	26.9	33.0	40.0	53.9	67.8	79.9	91.2
142.5°	1.7	1.7	5.2	13.0	23.5	28.7	34.7	47.8	60.8	72.1	83.4
145°	2.6	1.7	4.3	11.3	20.0	25.2	29.5	41.7	53.0	63.4	74.7
147.5°	2.6	1.7	3.5	8.7	16.5	20.8	25.2	35.6	45.2	54.7	65.2
150°	2.6	2.6	2.6	6.9	13.0	16.5	20.8	29.5	37.4	46.0	54.7
152.5°	2.6	2.6	2.6	6.1	10.4	13.9	16.5	23.5	31.3	38.2	45.2
155°	2.6	2.6	2.6	4.3	7.8	10.4	13.0	18.2	24.3	30.4	35.6
157.5°	2.6	2.6	2.6	3.5	6.1	7.8	9.6	13.9	19.1	23.5	27.8
160°	3.5	2.6	2.6	2.6	4.3	6.1	7.8	10.4	13.9	17.4	20.8
162.5°	3.5	2.6	2.6	2.6	3.5	4.3	5.2	7.8	10.4	13.0	15.6
165°	3.5	3.5	2.6	1.7	2.6	3.5	3.5	5.2	6.9	8.7	10.4
167.5°	3.5	3.5	2.6	2.6	1.7	1.7	2.6	3.5	4.3	5.2	6.1
170°	3.5	3.5	2.6	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.5
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°	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2	3684.2
2.5°	3643.4	3641.6	3638.1	3638.1	3638.1	3635.5	3634.7	3630.3	3631.2	3635.5
5°	3500.0	3505.2	3494.8	3497.4	3495.7	3497.4	3497.4	3498.3	3492.2	3493.9
7.5°	3334.1	3334.1	3331.5	3337.6	3331.5	3333.2	3336.7	3336.7	3337.6	3341.1
10°	3183.8	3186.4	3189.9	3196.8	3199.5	3202.9	3201.2	3211.6	3212.5	3215.1
12.5°	3072.6	3081.3	3081.3	3090.0	3091.7	3091.7	3101.3	3102.2	3103.9	3098.7
15°	2982.3	2991.8	2999.6	3009.2	3009.2	3017.0	3030.9	3017.0	3024.0	3015.3
17.5°	2912.8	2921.5	2932.8	2936.2	2940.6	2946.7	2957.1	2960.6	2964.9	2968.4
20°	2845.9	2857.2	2870.2	2885.8	2893.7	2891.1	2885.0	2898.9	2891.1	2894.5
22.5°	2785.1	2805.1	2811.1	2820.7	2831.1	2838.1	2846.8	2854.6	2855.4	2853.7
25°	2726.9	2743.4	2766.0	2785.1	2786.8	2788.6	2788.6	2791.2	2795.5	2798.1
27.5°	2671.3	2699.9	2713.8	2733.0	2742.5	2753.8	2769.4	2764.2	2762.5	2756.4
30°	2620.9	2647.0	2675.6	2701.7	2703.4	2704.3	2699.1	2702.6	2702.6	2709.5
32.5°	2569.6	2600.9	2620.9	2625.2	2632.2	2641.7	2645.2	2640.0	2638.3	2635.7
35°	2507.1	2533.2	2537.5	2558.3	2564.4	2561.8	2556.6	2559.2	2564.4	2573.1
37.5°	2431.5	2446.3	2478.4	2481.0	2487.1	2494.1	2507.1	2503.6	2501.9	2498.4
40°	2351.6	2376.8	2393.3	2412.4	2417.6	2415.9	2408.1	2413.3	2419.4	2422.8
42.5°	2269.9	2289.9	2310.8	2316.0	2317.7	2322.1	2329.9	2339.4	2334.2	2330.7
45°	2181.3	2196.1	2203.0	2214.3	2218.7	2219.5	2218.7	2219.5	2225.6	2228.2
47.5°	2080.6	2097.9	2101.4	2112.7	2112.7	2117.9	2129.2	2137.0	2141.4	2146.6
50°	1977.2	1989.3	2010.2	2016.3	2025.8	2037.1	2037.1	2041.5	2048.4	2055.4
52.5°	1881.6	1896.4	1910.3	1931.1	1931.1	1934.6	1945.9	1962.4	1971.1	1976.3
55°	1769.6	1790.4	1814.7	1828.6	1832.1	1843.4	1853.8	1856.4	1858.2	1863.4
57.5°	1655.8	1681.0	1701.8	1726.1	1726.1	1726.1	1734.8	1740.9	1746.1	1740.0
60°	1544.6	1564.5	1581.0	1595.8	1588.0	1595.8	1597.6	1589.7	1586.3	1587.1
62.5°	1422.1	1441.2	1451.6	1449.0	1448.1	1448.1	1443.8	1436.8	1439.4	1440.3
65°	1302.2	1307.4	1311.7	1313.5	1304.8	1302.2	1304.8	1311.7	1312.6	1323.0
67.5°	1169.3	1178.0	1175.4	1178.8	1176.2	1176.2	1171.9	1171.0	1161.5	1178.0
70°	1041.6	1046.8	1053.7	1052.9	1048.5	1041.6	1028.6	1026.8	1019.9	1027.7
72.5°	907.8	923.4	922.6	920.8	917.4	911.3	896.5	891.3	883.5	881.7
75°	781.0	789.7	794.0	794.0	787.9	786.2	777.5	769.7	767.1	764.5
77.5°	655.9	668.0	672.4	674.1	669.8	672.4	665.4	658.5	655.0	661.1
80°	538.6	545.5	555.1	562.9	567.3	565.5	565.5	567.3	564.7	568.1
82.5°	423.1	437.0	453.5	459.5	469.1	472.6	480.4	490.0	496.9	499.5
85°	324.0	342.3	360.5	376.2	386.6	397.0	415.2	435.2	450.9	459.5
87.5°	254.5	273.6	295.4	316.2	324.0	331.0	345.7	372.7	406.6	428.3
90°	218.9	242.4	258.0	272.8	283.2	291.9	315.3	344.9	383.1	402.2
92.5°	209.4	225.0	242.4	259.7	271.0	281.5	302.3	326.6	351.8	367.5
95°	198.9	217.2	236.3	250.2	258.0	266.7	283.2	301.4	321.4	330.1
97.5°	192.9	210.2	224.1	238.0	245.8	254.5	270.2	288.4	304.9	312.7
100°	183.3	198.1	212.0	225.9	233.7	240.6	256.3	270.2	278.0	280.6
102.5°	173.7	187.6	201.5	213.7	219.8	225.9	236.3	245.0	246.7	249.3
105°	165.9	178.1	188.5	198.9	203.3	207.6	214.6	215.4	215.4	214.6
107.5°	157.2	167.7	176.3	182.4	184.2	185.9	187.6	185.9	185.0	185.0
110°	149.4	157.2	163.3	166.8	167.7	168.5	167.7	167.7	168.5	167.7



TEST NUMBER: P241376

CATALOG NUMBER: FVS8M-3-LD4-50-3STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	142.5	149.4	153.8	155.5	156.4	157.2	159.0	160.7	162.4	163.3
115°	137.3	143.3	147.7	152.0	153.8	155.5	159.8	164.2	167.7	168.5
117.5°	134.6	141.6	148.5	153.8	157.2	159.8	165.9	172.0	175.5	176.3
120°	134.6	143.3	151.2	158.1	161.6	165.1	172.0	178.1	181.6	183.3
122.5°	133.8	144.2	152.9	160.7	164.2	167.7	174.6	180.7	185.0	186.8
125°	132.9	143.3	152.9	161.6	165.1	168.5	175.5	180.7	185.0	186.8
127.5°	129.4	140.7	150.3	159.0	163.3	167.7	173.7	179.0	183.3	185.0
130°	126.0	136.4	145.9	155.5	159.8	164.2	171.1	176.3	180.7	182.4
132.5°	120.8	132.0	141.6	150.3	154.6	159.0	165.9	172.0	175.5	177.2
135°	115.5	126.8	135.5	143.3	147.7	152.0	159.0	164.2	168.5	169.4
137.5°	109.5	119.0	128.6	136.4	139.9	143.3	149.4	155.5	158.1	159.8
140°	101.6	111.2	119.9	126.8	130.3	133.8	139.0	143.3	146.8	148.5
142.5°	93.8	102.5	109.5	116.4	119.9	121.6	126.8	131.2	133.8	134.6
145°	84.3	92.1	99.0	105.1	106.9	109.5	113.8	117.3	119.0	120.8
147.5°	73.8	80.8	87.7	93.0	95.6	97.3	101.6	104.2	106.0	106.9
150°	63.4	70.4	76.4	80.8	82.5	85.1	87.7	91.2	92.1	93.0
152.5°	52.1	59.1	64.3	69.5	71.2	72.1	75.6	77.3	79.1	79.1
155°	42.6	47.8	53.0	57.3	59.1	59.9	62.5	64.3	65.2	66.0
157.5°	33.0	37.4	42.6	46.9	47.8	48.6	51.3	52.1	53.0	53.9
160°	25.2	28.7	32.1	35.6	37.4	39.1	40.8	41.7	42.6	41.7
162.5°	18.2	20.8	23.5	26.1	27.8	29.5	31.3	32.1	32.1	32.1
165°	12.2	14.8	16.5	18.2	19.1	20.0	22.6	22.6	22.6	22.6
167.5°	7.8	8.7	9.6	11.3	11.3	12.2	13.9	14.8	14.8	14.8
170°	3.5	4.3	5.2	5.2	6.1	6.1	6.9	7.8	7.8	6.9
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)