

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: P241375

Luminaire Tested: **FVS8M-3-LD4-40-3STD-P125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241375
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-LD4-40-3STD-P125-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
3FT LENGTH, 3-MODULE LED WITH P125 LENS
Light Source: (252) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

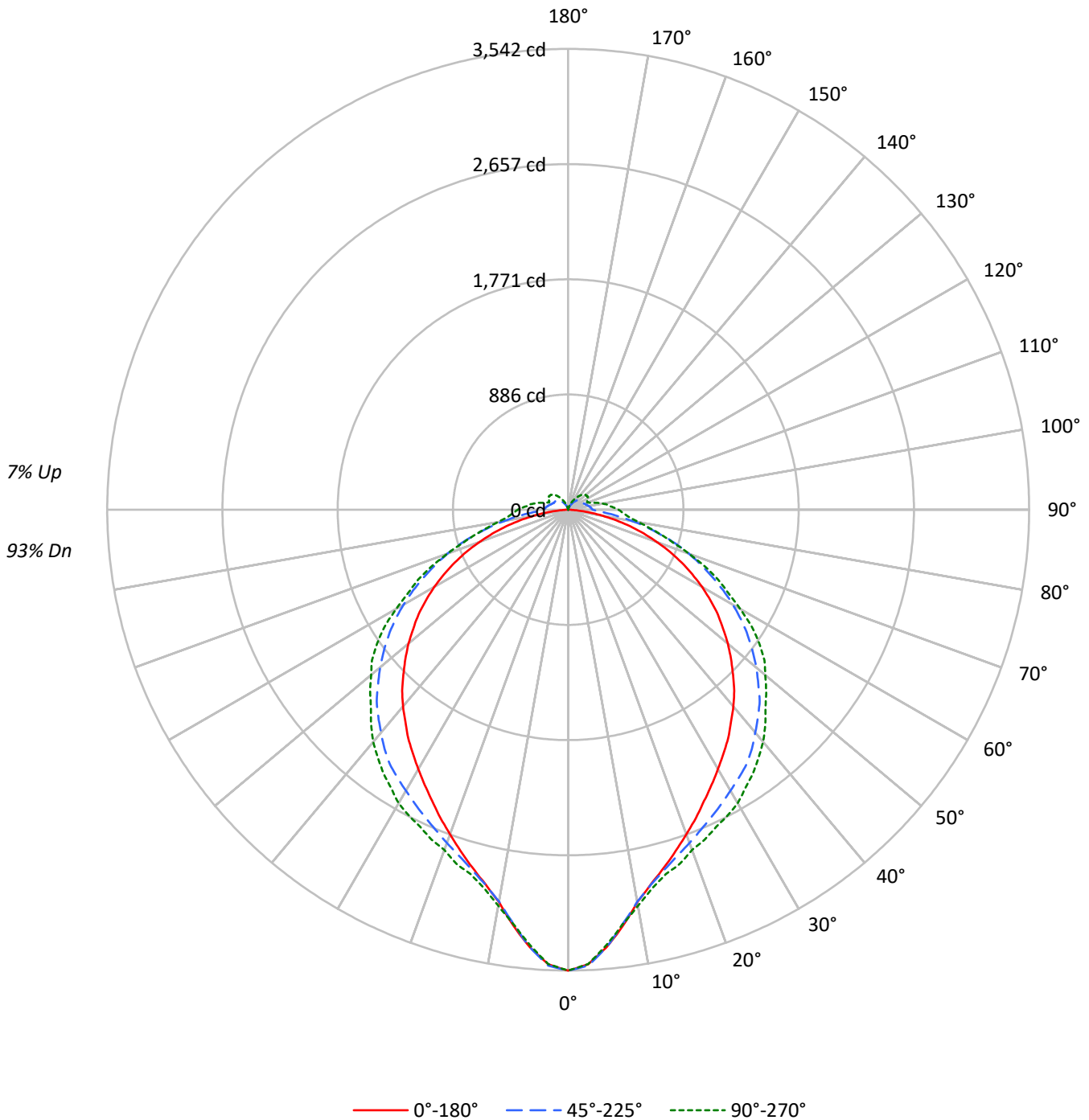
Lumens per Lamp: N/A
Luminaire Lumens: 9653.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

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°	20686	20686	20686
5°	19703	19458	19312
10°	17995	17532	17629
15°	16977	16443	16528
20°	16195	15811	15982
25°	15549	15387	15684
30°	15078	15105	15541
35°	14752	14977	15230
40°	14434	14640	14930
45°	14064	14369	14435
50°	13712	13899	14147
55°	13323	13404	13793
60°	12744	12742	12812
65°	11972	11876	11843
70°	10817	10943	10412
75°	9323	9550	9000
80°	6925	7919	8055
85°	3570	6050	8268



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	3.2
10°-20°	811.3	8.4
20°-30°	1200.8	12.4
30°-40°	1469.9	15.2
40°-50°	1562.9	16.2
50°-60°	1465.3	15.2
60°-70°	1153.8	12.0
70°-80°	715.8	7.4
80°-90°	318.2	3.3
90°-100°	180.7	1.9
100°-110°	135.7	1.4
110°-120°	103.5	1.1
120°-130°	92.7	1.0
130°-140°	70.3	0.7
140°-150°	40.6	0.4
150°-160°	16.1	0.2
160°-170°	3.5	0.0
170°-180°	0.1	0.0
0°-30°	2323.9	24.1
0°-40°	3793.8	39.3
0°-60°	6822.0	70.7
0°-90°	9009.8	93.3
90°-120°	419.9	4.3
90°-150°	623.5	6.5
90°-180°	643.0	6.7
0°-180°	9653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3542	3542	3542	3542	3542	
5°	3376	3379	3376	3361	3360	312
15°	2847	2839	2863	2894	2899	802
25°	2471	2534	2606	2680	2690	1141
35°	2143	2241	2389	2466	2474	1340
45°	1790	1920	2081	2133	2143	1383
55°	1404	1528	1685	1762	1792	1251
65°	961	1069	1220	1255	1272	949
75°	492	592	733	758	735	520
85°	84	178	292	372	442	108
90°	2	86	189	272	387	4
95°	1	78	175	248	317	1
105°	1	67	145	196	206	1
115°	1	58	124	148	162	1
125°	1	51	117	159	180	1
135°	2	40	101	142	163	1
145°	2	24	72	103	116	1
155°	2	10	34	57	64	1
165°	3	3	10	18	22	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°	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5
2.5°	3497.4	3503.3	3503.3	3504.1	3502.4	3507.5	3505.8	3506.6	3508.3	3510.8	3508.3
5°	3376.3	3379.6	3376.3	3379.6	3377.1	3378.8	3380.5	3376.3	3378.8	3372.1	3376.3
7.5°	3225.1	3221.8	3215.1	3209.2	3208.4	3208.4	3210.1	3214.3	3216.8	3214.3	3211.8
10°	3062.2	3067.2	3066.4	3062.2	3062.2	3062.2	3066.4	3064.7	3058.1	3059.7	3058.9
12.5°	2945.3	2947.8	2942.8	2940.3	2934.4	2940.3	2936.1	2933.6	2944.5	2949.5	2948.6
15°	2846.7	2843.4	2843.4	2839.2	2836.7	2839.2	2840.9	2843.4	2850.1	2857.6	2862.6
17.5°	2749.0	2751.5	2749.8	2749.8	2753.2	2751.5	2759.0	2769.0	2780.7	2786.6	2788.3
20°	2654.6	2656.3	2662.1	2662.1	2669.6	2675.5	2682.2	2693.9	2702.2	2716.4	2725.6
22.5°	2564.4	2564.4	2571.9	2583.6	2592.8	2602.0	2612.0	2627.9	2634.6	2650.4	2663.0
25°	2470.8	2475.8	2488.4	2501.7	2519.3	2533.5	2543.5	2556.9	2577.8	2589.4	2606.2
27.5°	2385.6	2396.5	2404.0	2425.7	2446.6	2460.0	2472.5	2491.7	2510.1	2530.1	2549.4
30°	2302.1	2308.8	2321.3	2346.4	2375.6	2389.8	2396.5	2424.9	2444.1	2474.2	2493.4
32.5°	2220.2	2228.6	2245.3	2265.4	2299.6	2313.8	2328.0	2359.7	2384.0	2413.2	2441.6
35°	2143.4	2144.2	2167.6	2193.5	2224.4	2241.1	2255.3	2287.9	2322.2	2353.9	2389.0
37.5°	2054.0	2065.7	2082.4	2112.5	2143.4	2165.1	2183.5	2216.1	2258.7	2292.9	2318.0
40°	1974.7	1983.9	2000.6	2029.0	2061.5	2084.1	2104.1	2146.7	2186.0	2218.6	2236.1
42.5°	1888.6	1891.1	1915.4	1947.9	1982.2	2002.2	2024.8	2069.1	2103.3	2131.7	2160.1
45°	1790.1	1803.4	1827.7	1859.4	1901.2	1920.4	1943.8	1985.5	2023.9	2052.3	2080.7
47.5°	1695.7	1709.0	1733.3	1769.2	1810.9	1829.3	1852.7	1888.6	1935.4	1963.8	1980.5
50°	1601.3	1615.5	1640.5	1674.0	1715.7	1732.4	1752.5	1800.1	1836.0	1863.6	1887.0
52.5°	1499.4	1515.2	1538.6	1577.1	1615.5	1635.5	1649.7	1694.8	1731.6	1768.3	1785.9
55°	1404.1	1407.5	1435.9	1471.8	1507.7	1527.8	1546.2	1587.9	1627.2	1657.2	1684.8
57.5°	1295.6	1302.2	1325.6	1366.6	1399.1	1419.2	1436.7	1480.2	1511.1	1547.0	1576.2
60°	1187.8	1194.5	1216.2	1246.3	1281.4	1303.9	1322.3	1364.9	1400.0	1433.4	1461.0
62.5°	1075.0	1085.9	1105.1	1132.7	1167.8	1189.5	1207.0	1246.3	1283.0	1308.9	1342.3
65°	961.4	964.8	988.2	1019.1	1050.8	1069.2	1090.1	1125.2	1159.4	1192.0	1220.4
67.5°	844.5	850.3	867.0	898.8	932.2	953.1	970.6	1004.9	1044.1	1073.4	1100.1
70°	722.5	732.6	750.9	781.8	814.4	834.5	844.5	881.2	915.5	954.8	985.7
72.5°	608.1	616.5	638.2	659.1	694.1	710.0	728.4	761.0	796.9	829.5	863.7
75°	492.0	502.9	515.4	542.1	572.2	592.2	614.0	639.0	677.4	708.3	732.6
77.5°	378.4	382.6	403.5	431.9	459.4	477.8	488.7	521.2	558.8	593.1	615.6
80°	265.6	274.0	296.5	322.4	345.0	365.9	377.6	408.5	446.9	478.6	497.0
82.5°	167.1	175.4	197.1	219.7	247.3	265.6	277.3	310.7	345.0	372.5	390.1
85°	84.4	94.4	112.8	132.8	164.6	177.9	191.3	219.7	253.9	272.3	292.4
87.5°	27.6	35.1	53.5	74.3	100.2	115.3	127.0	157.9	182.1	204.7	223.0
90°	1.7	9.2	25.9	48.4	73.5	86.0	100.2	126.1	149.5	170.4	188.8
92.5°	0.8	7.5	23.4	45.1	69.3	81.9	94.4	118.6	139.5	159.5	180.4
95°	0.8	6.7	22.6	43.4	66.8	78.5	90.2	112.8	134.5	155.4	175.4
97.5°	0.8	5.8	20.9	41.8	64.3	75.2	86.0	107.8	129.5	149.5	167.9
100°	0.8	5.8	20.0	40.1	61.0	71.8	82.7	104.4	123.6	142.8	160.4
102.5°	0.8	5.8	19.2	38.4	58.5	68.5	79.4	99.4	118.6	137.0	152.9
105°	0.8	5.0	18.4	35.9	56.0	66.8	76.0	95.2	113.6	129.5	145.3
107.5°	0.8	5.0	17.5	35.1	54.3	63.5	73.5	91.9	108.6	124.5	138.7
110°	0.8	4.2	16.7	33.4	52.6	61.8	71.0	88.5	105.2	119.4	132.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	4.2	15.9	31.7	51.0	60.1	69.3	86.9	101.9	116.1	127.8
115°	0.8	4.2	15.0	30.9	49.3	58.5	67.7	84.4	99.4	112.8	123.6
117.5°	0.8	3.3	14.2	30.1	47.6	56.8	66.0	81.9	97.7	110.3	121.1
120°	0.8	3.3	13.4	28.4	45.9	55.1	63.5	80.2	96.1	108.6	119.4
122.5°	0.8	3.3	12.5	27.6	44.3	52.6	61.8	78.5	93.6	107.8	118.6
125°	0.8	2.5	12.5	26.7	42.6	51.0	60.1	76.0	91.9	105.2	116.9
127.5°	1.7	2.5	11.7	25.1	40.9	48.4	56.8	73.5	88.5	102.7	113.6
130°	1.7	2.5	10.0	23.4	38.4	45.9	54.3	70.2	85.2	98.6	110.3
132.5°	1.7	1.7	9.2	21.7	35.9	43.4	51.0	66.8	81.0	94.4	106.1
135°	1.7	1.7	8.4	19.2	33.4	40.1	47.6	62.6	76.8	89.4	101.1
137.5°	1.7	1.7	6.7	17.5	29.2	35.9	43.4	57.6	71.0	82.7	95.2
140°	1.7	1.7	5.8	15.0	25.9	31.7	38.4	51.8	65.2	76.8	87.7
142.5°	1.7	1.7	5.0	12.5	22.6	27.6	33.4	45.9	58.5	69.3	80.2
145°	2.5	1.7	4.2	10.9	19.2	24.2	28.4	40.1	51.0	61.0	71.8
147.5°	2.5	1.7	3.3	8.4	15.9	20.0	24.2	34.2	43.4	52.6	62.6
150°	2.5	2.5	2.5	6.7	12.5	15.9	20.0	28.4	35.9	44.3	52.6
152.5°	2.5	2.5	2.5	5.8	10.0	13.4	15.9	22.6	30.1	36.8	43.4
155°	2.5	2.5	2.5	4.2	7.5	10.0	12.5	17.5	23.4	29.2	34.2
157.5°	2.5	2.5	2.5	3.3	5.8	7.5	9.2	13.4	18.4	22.6	26.7
160°	3.3	2.5	2.5	2.5	4.2	5.8	7.5	10.0	13.4	16.7	20.0
162.5°	3.3	2.5	2.5	2.5	3.3	4.2	5.0	7.5	10.0	12.5	15.0
165°	3.3	3.3	2.5	1.7	2.5	3.3	3.3	5.0	6.7	8.4	10.0
167.5°	3.3	3.3	2.5	2.5	1.7	1.7	2.5	3.3	4.2	5.0	5.8
170°	3.3	3.3	2.5	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.3
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°	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5	3542.5
2.5°	3503.3	3501.6	3498.3	3498.3	3498.3	3495.8	3494.9	3490.7	3491.6	3495.8
5°	3365.4	3370.5	3360.4	3362.9	3361.3	3362.9	3362.9	3363.8	3357.9	3359.6
7.5°	3205.9	3205.9	3203.4	3209.2	3203.4	3205.1	3208.4	3208.4	3209.2	3212.6
10°	3061.4	3063.9	3067.2	3073.9	3076.4	3079.8	3078.1	3088.1	3089.0	3091.5
12.5°	2954.5	2962.8	2962.8	2971.2	2972.9	2972.9	2982.0	2982.9	2984.5	2979.5
15°	2867.6	2876.8	2884.3	2893.5	2893.5	2901.0	2914.4	2901.0	2907.7	2899.3
17.5°	2800.8	2809.1	2820.0	2823.3	2827.5	2833.4	2843.4	2846.7	2850.9	2854.2
20°	2736.5	2747.3	2759.9	2774.9	2782.4	2779.9	2774.1	2787.4	2779.9	2783.2
22.5°	2678.0	2697.2	2703.1	2712.2	2722.3	2728.9	2737.3	2744.8	2745.7	2744.0
25°	2622.0	2637.9	2659.6	2678.0	2679.7	2681.3	2681.3	2683.8	2688.0	2690.5
27.5°	2568.6	2596.1	2609.5	2627.9	2637.1	2647.9	2663.0	2657.9	2656.3	2650.4
30°	2520.1	2545.2	2572.7	2597.8	2599.5	2600.3	2595.3	2598.6	2598.6	2605.3
32.5°	2470.8	2500.9	2520.1	2524.3	2531.0	2540.2	2543.5	2538.5	2536.8	2534.3
35°	2410.7	2435.8	2439.9	2460.0	2465.8	2463.3	2458.3	2460.8	2465.8	2474.2
37.5°	2338.0	2352.2	2383.1	2385.6	2391.5	2398.2	2410.7	2407.4	2405.7	2402.3
40°	2261.2	2285.4	2301.3	2319.6	2324.7	2323.0	2315.5	2320.5	2326.3	2329.7
42.5°	2182.7	2201.9	2221.9	2226.9	2228.6	2232.8	2240.3	2249.5	2244.5	2241.1
45°	2097.5	2111.7	2118.3	2129.2	2133.4	2134.2	2133.4	2134.2	2140.1	2142.6
47.5°	2000.6	2017.3	2020.6	2031.5	2031.5	2036.5	2047.3	2054.9	2059.0	2064.0
50°	1901.2	1912.9	1932.9	1938.7	1947.9	1958.8	1958.8	1963.0	1969.7	1976.3
52.5°	1809.3	1823.5	1836.8	1856.9	1856.9	1860.2	1871.1	1887.0	1895.3	1900.3
55°	1701.5	1721.6	1745.0	1758.3	1761.7	1772.5	1782.5	1785.0	1786.7	1791.7
57.5°	1592.1	1616.3	1636.4	1659.8	1659.8	1659.8	1668.1	1674.0	1679.0	1673.1
60°	1485.2	1504.4	1520.3	1534.5	1526.9	1534.5	1536.1	1528.6	1525.3	1526.1
62.5°	1367.4	1385.8	1395.8	1393.3	1392.5	1392.5	1388.3	1381.6	1384.1	1384.9
65°	1252.1	1257.1	1261.3	1263.0	1254.6	1252.1	1254.6	1261.3	1262.1	1272.2
67.5°	1124.3	1132.7	1130.2	1133.5	1131.0	1131.0	1126.8	1126.0	1116.8	1132.7
70°	1001.5	1006.5	1013.2	1012.4	1008.2	1001.5	989.0	987.3	980.6	988.2
72.5°	872.9	887.9	887.1	885.4	882.1	876.2	862.0	857.0	849.5	847.8
75°	750.9	759.3	763.5	763.5	757.6	756.0	747.6	740.1	737.6	735.1
77.5°	630.7	642.4	646.5	648.2	644.0	646.5	639.8	633.2	629.8	635.7
80°	517.9	524.6	533.8	541.3	545.5	543.8	543.8	545.5	542.9	546.3
82.5°	406.8	420.2	436.0	441.9	451.1	454.4	461.9	471.1	477.8	480.3
85°	311.6	329.1	346.7	361.7	371.7	381.7	399.3	418.5	433.5	441.9
87.5°	244.7	263.1	284.0	304.1	311.6	318.3	332.5	358.3	390.9	411.8
90°	210.5	233.1	248.1	262.3	272.3	280.7	303.2	331.6	368.4	386.7
92.5°	201.3	216.3	233.1	249.8	260.6	270.6	290.7	314.1	338.3	353.3
95°	191.3	208.8	227.2	240.6	248.1	256.4	272.3	289.9	309.1	317.4
97.5°	185.4	202.1	215.5	228.9	236.4	244.7	259.8	277.3	293.2	300.7
100°	176.2	190.4	203.8	217.2	224.7	231.4	246.4	259.8	267.3	269.8
102.5°	167.1	180.4	193.8	205.5	211.3	217.2	227.2	235.6	237.2	239.7
105°	159.5	171.2	181.3	191.3	195.5	199.6	206.3	207.2	207.2	206.3
107.5°	151.2	161.2	169.6	175.4	177.1	178.8	180.4	178.8	177.9	177.9
110°	143.7	151.2	157.0	160.4	161.2	162.0	161.2	161.2	162.0	161.2



TEST NUMBER: P241375

CATALOG NUMBER: FVS8M-3-LD4-40-3STD-P125-UNV-EDC1

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	137.0	143.7	147.8	149.5	150.4	151.2	152.9	154.5	156.2	157.0
115°	132.0	137.8	142.0	146.2	147.8	149.5	153.7	157.9	161.2	162.0
117.5°	129.5	136.2	142.8	147.8	151.2	153.7	159.5	165.4	168.7	169.6
120°	129.5	137.8	145.3	152.0	155.4	158.7	165.4	171.2	174.6	176.2
122.5°	128.6	138.7	147.0	154.5	157.9	161.2	167.9	173.7	177.9	179.6
125°	127.8	137.8	147.0	155.4	158.7	162.0	168.7	173.7	177.9	179.6
127.5°	124.5	135.3	144.5	152.9	157.0	161.2	167.1	172.1	176.2	177.9
130°	121.1	131.1	140.3	149.5	153.7	157.9	164.6	169.6	173.7	175.4
132.5°	116.1	127.0	136.2	144.5	148.7	152.9	159.5	165.4	168.7	170.4
135°	111.1	122.0	130.3	137.8	142.0	146.2	152.9	157.9	162.0	162.9
137.5°	105.2	114.4	123.6	131.1	134.5	137.8	143.7	149.5	152.0	153.7
140°	97.7	106.9	115.3	122.0	125.3	128.6	133.6	137.8	141.2	142.8
142.5°	90.2	98.6	105.2	111.9	115.3	116.9	122.0	126.1	128.6	129.5
145°	81.0	88.5	95.2	101.1	102.7	105.2	109.4	112.8	114.4	116.1
147.5°	71.0	77.7	84.4	89.4	91.9	93.6	97.7	100.2	101.9	102.7
150°	61.0	67.7	73.5	77.7	79.4	81.9	84.4	87.7	88.5	89.4
152.5°	50.1	56.8	61.8	66.8	68.5	69.3	72.7	74.3	76.0	76.0
155°	40.9	45.9	51.0	55.1	56.8	57.6	60.1	61.8	62.6	63.5
157.5°	31.7	35.9	40.9	45.1	45.9	46.8	49.3	50.1	51.0	51.8
160°	24.2	27.6	30.9	34.2	35.9	37.6	39.3	40.1	40.9	40.1
162.5°	17.5	20.0	22.6	25.1	26.7	28.4	30.1	30.9	30.9	30.9
165°	11.7	14.2	15.9	17.5	18.4	19.2	21.7	21.7	21.7	21.7
167.5°	7.5	8.4	9.2	10.9	10.9	11.7	13.4	14.2	14.2	14.2
170°	3.3	4.2	5.0	5.0	5.8	5.8	6.7	7.5	7.5	6.7
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)