

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: P241488

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241488
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-LD4-50-3HI-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

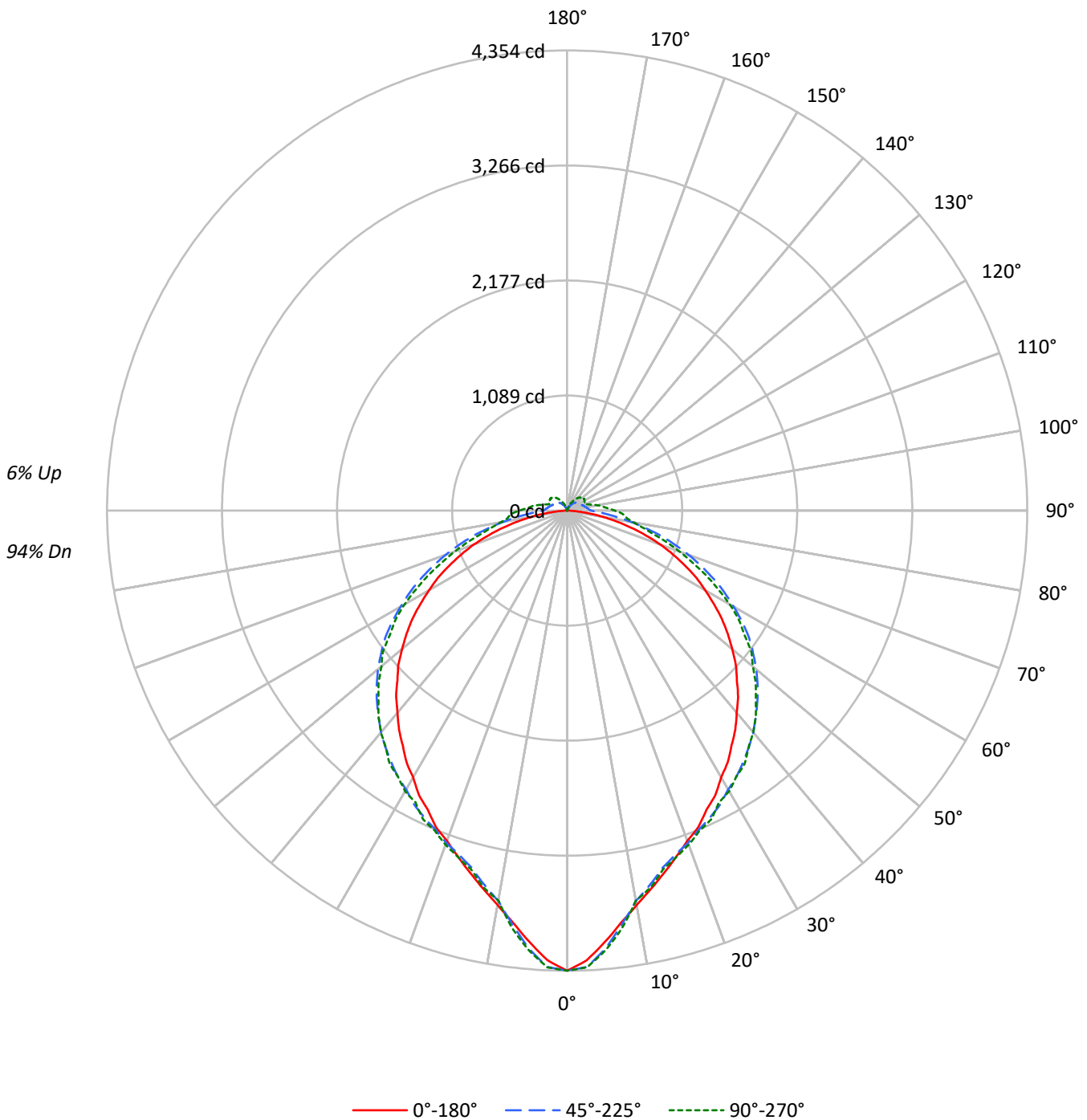
Lumens per Lamp: N/A
Luminaire Lumens: 11768.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 105
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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CATALOG NUMBER: FVS8M-3-LD4-50-3HI-PA187-UNV-EDC1

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°	25422	25422	25422
5°	23906	23962	24002
10°	22265	21495	21374
15°	21156	20084	20026
20°	20290	19408	19319
25°	19648	18912	18800
30°	19086	18460	18295
35°	18667	18197	18021
40°	18244	17942	17556
45°	17846	17590	17005
50°	17455	17213	16415
55°	16953	16723	15756
60°	16180	15882	14939
65°	15282	14887	13515
70°	14060	13555	11912
75°	11922	11958	10199
80°	9084	9777	9354
85°	4577	7619	10255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.6	3.3
10°-20°	995.8	8.5
20°-30°	1471.4	12.5
30°-40°	1794.7	15.3
40°-50°	1910.6	16.2
50°-60°	1796.0	15.3
60°-70°	1422.4	12.1
70°-80°	884.6	7.5
80°-90°	390.0	3.3
90°-100°	207.4	1.8
100°-110°	152.8	1.3
110°-120°	119.1	1.0
120°-130°	103.4	0.9
130°-140°	74.5	0.6
140°-150°	41.9	0.4
150°-160°	16.5	0.1
160°-170°	3.3	0.0
170°-180°	0.1	0.0
0°-30°	2850.9	24.2
0°-40°	4645.5	39.5
0°-60°	8352.1	71.0
0°-90°	11049.2	93.9
90°-120°	479.2	4.1
90°-150°	699.0	5.9
90°-180°	719.0	6.1
0°-180°	11768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4354	4354	4354	4354	4354	
5°	4097	4126	4158	4181	4176	381
15°	3548	3530	3496	3499	3513	1000
25°	3122	3164	3203	3210	3225	1443
35°	2712	2823	2903	2930	2928	1700
45°	2271	2409	2547	2544	2524	1757
55°	1787	1934	2102	2086	2047	1593
65°	1227	1371	1530	1513	1452	1216
75°	629	769	917	912	833	669
85°	108	231	368	444	548	141
90°	2	106	227	324	450	6
95°	1	88	200	288	355	1
105°	1	75	166	223	220	1
115°	1	64	142	178	181	1
125°	1	54	131	182	194	1
135°	2	40	104	154	175	2
145°	3	21	71	109	126	2
155°	3	8	34	60	70	1
165°	4	2	8	17	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°	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5
2.5°	4258.8	4267.1	4274.4	4278.6	4282.7	4294.2	4302.5	4303.5	4316.0	4325.4	4322.3
5°	4096.6	4103.9	4118.4	4125.7	4120.5	4125.7	4137.1	4141.3	4144.4	4148.6	4157.9
7.5°	3930.2	3926.0	3938.5	3935.4	3940.6	3937.5	3939.5	3938.5	3948.9	3951.0	3952.0
10°	3788.7	3792.9	3795.0	3786.7	3785.6	3788.7	3782.5	3776.3	3773.1	3757.5	3750.3
12.5°	3666.0	3666.0	3667.1	3651.5	3644.2	3639.0	3646.3	3644.2	3630.7	3617.1	3625.5
15°	3547.5	3550.6	3552.7	3541.2	3531.9	3529.8	3532.9	3512.1	3514.2	3521.5	3496.5
17.5°	3434.1	3446.6	3441.4	3427.9	3427.9	3427.9	3424.7	3420.6	3424.7	3417.5	3410.2
20°	3325.9	3329.1	3328.0	3334.3	3334.3	3333.2	3332.2	3334.3	3342.6	3325.9	3345.7
22.5°	3241.7	3244.8	3250.0	3238.6	3235.5	3231.3	3239.6	3263.5	3256.3	3268.7	3263.5
25°	3122.1	3123.1	3122.1	3133.5	3152.3	3163.7	3172.0	3174.1	3180.3	3199.1	3203.2
27.5°	3035.8	3036.8	3050.3	3055.5	3065.9	3078.4	3080.5	3097.1	3113.8	3121.1	3136.7
30°	2914.1	2928.7	2930.7	2957.8	2985.9	2995.2	3001.5	3019.1	3031.6	3051.4	3047.2
32.5°	2826.7	2835.1	2854.8	2871.5	2891.2	2898.5	2915.1	2942.2	2960.9	2980.7	2983.8
35°	2712.3	2716.5	2736.3	2764.3	2807.0	2822.6	2841.3	2846.5	2874.6	2896.4	2902.7
37.5°	2613.5	2620.8	2646.8	2671.8	2695.7	2717.5	2742.5	2769.5	2792.4	2810.1	2823.6
40°	2496.0	2501.2	2531.4	2563.6	2609.4	2631.2	2639.5	2680.1	2705.1	2720.7	2740.4
42.5°	2395.1	2400.3	2427.4	2459.6	2492.9	2524.1	2543.9	2582.3	2608.3	2627.1	2641.6
45°	2271.4	2282.8	2307.8	2351.5	2397.2	2408.7	2430.5	2467.9	2503.3	2535.5	2547.0
47.5°	2166.3	2170.5	2200.7	2230.8	2276.6	2301.5	2327.5	2359.8	2402.4	2424.3	2444.0
50°	2038.4	2051.9	2076.9	2116.4	2158.0	2180.9	2211.1	2252.7	2287.0	2317.1	2336.9
52.5°	1915.7	1923.0	1952.1	1993.7	2040.5	2067.5	2089.4	2132.0	2178.8	2205.9	2218.3
55°	1786.7	1795.1	1827.3	1867.9	1912.6	1934.4	1961.5	2008.3	2055.1	2080.0	2101.9
57.5°	1646.3	1664.0	1693.1	1736.8	1776.3	1798.2	1827.3	1880.3	1920.9	1947.9	1964.6
60°	1508.0	1520.5	1551.7	1590.2	1646.3	1671.3	1694.2	1741.0	1775.3	1805.5	1821.1
62.5°	1381.1	1387.4	1415.4	1451.8	1498.6	1521.5	1547.5	1598.5	1633.8	1659.8	1678.6
65°	1227.2	1243.8	1269.8	1304.2	1348.9	1370.7	1396.7	1447.7	1486.2	1517.4	1529.8
67.5°	1083.7	1087.8	1121.1	1160.6	1205.4	1226.2	1248.0	1296.9	1334.3	1359.3	1374.9
70°	939.1	941.2	976.6	1005.7	1054.6	1077.4	1096.2	1138.8	1182.5	1203.3	1221.0
72.5°	781.0	790.4	826.8	858.0	897.5	918.3	946.4	988.0	1023.4	1049.4	1062.9
75°	629.2	637.5	663.5	705.1	745.7	768.6	795.6	835.1	864.2	896.5	917.3
77.5°	482.6	505.4	519.0	555.4	601.1	628.2	646.9	683.3	712.4	738.4	755.0
80°	348.4	353.6	381.7	415.0	458.6	476.3	497.1	536.6	565.8	594.9	613.6
82.5°	218.4	228.8	256.9	288.1	325.5	343.2	363.0	400.4	432.6	455.5	480.5
85°	108.2	118.6	144.6	173.7	214.2	230.9	249.6	283.9	314.1	339.0	368.2
87.5°	36.4	44.7	67.6	96.7	131.0	146.6	163.3	194.5	221.5	251.7	275.6
90°	2.1	10.4	31.2	59.3	90.5	106.1	121.7	146.6	174.7	200.7	226.7
92.5°	1.0	8.3	27.0	53.0	82.2	95.7	108.2	134.2	161.2	185.1	209.0
95°	1.0	7.3	25.0	48.9	74.9	88.4	101.9	127.9	153.9	177.8	199.7
97.5°	1.0	6.2	22.9	45.8	70.7	84.2	96.7	122.7	146.6	169.5	190.3
100°	1.0	6.2	21.8	43.7	67.6	80.1	92.6	117.5	140.4	161.2	181.0
102.5°	1.0	6.2	20.8	41.6	65.5	77.0	89.4	112.3	134.2	153.9	173.7
105°	1.0	5.2	19.8	40.6	63.4	74.9	85.3	108.2	127.9	147.7	166.4
107.5°	1.0	5.2	18.7	38.5	60.3	71.8	83.2	104.0	123.8	142.5	159.1
110°	1.0	4.2	17.7	37.4	58.2	69.7	80.1	100.9	119.6	137.3	151.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	4.2	16.6	35.4	56.2	67.6	78.0	97.8	116.5	132.1	146.6
115°	1.0	3.1	15.6	33.3	54.1	64.5	74.9	94.6	112.3	127.9	142.5
117.5°	1.0	3.1	14.6	32.2	52.0	62.4	71.8	91.5	109.2	125.8	139.4
120°	1.0	3.1	13.5	30.2	49.9	59.3	69.7	88.4	107.1	122.7	137.3
122.5°	1.0	2.1	12.5	28.1	46.8	56.2	66.6	85.3	103.0	119.6	135.2
125°	1.0	2.1	11.4	27.0	44.7	54.1	63.4	81.1	99.8	115.4	131.0
127.5°	2.1	2.1	10.4	25.0	41.6	51.0	59.3	78.0	94.6	110.2	125.8
130°	2.1	2.1	9.4	21.8	38.5	47.8	56.2	72.8	89.4	104.0	119.6
132.5°	2.1	2.1	8.3	19.8	35.4	43.7	52.0	67.6	83.2	97.8	112.3
135°	2.1	2.1	6.2	17.7	31.2	39.5	46.8	62.4	77.0	90.5	104.0
137.5°	2.1	2.1	5.2	14.6	27.0	34.3	41.6	56.2	70.7	83.2	96.7
140°	2.1	2.1	4.2	12.5	23.9	30.2	36.4	49.9	63.4	75.9	88.4
142.5°	3.1	2.1	4.2	10.4	19.8	26.0	31.2	42.6	55.1	67.6	79.0
145°	3.1	2.1	3.1	8.3	16.6	20.8	26.0	36.4	47.8	59.3	70.7
147.5°	3.1	3.1	3.1	6.2	13.5	17.7	21.8	31.2	40.6	51.0	60.3
150°	3.1	3.1	2.1	5.2	10.4	13.5	17.7	25.0	33.3	42.6	51.0
152.5°	3.1	3.1	2.1	4.2	8.3	10.4	13.5	20.8	27.0	34.3	42.6
155°	3.1	3.1	3.1	3.1	6.2	8.3	10.4	15.6	21.8	27.0	34.3
157.5°	3.1	3.1	3.1	3.1	4.2	6.2	7.3	11.4	15.6	20.8	26.0
160°	4.2	3.1	3.1	2.1	3.1	4.2	5.2	8.3	11.4	15.6	18.7
162.5°	4.2	4.2	3.1	3.1	2.1	3.1	4.2	5.2	7.3	10.4	12.5
165°	4.2	4.2	3.1	3.1	2.1	2.1	3.1	3.1	5.2	6.2	8.3
167.5°	4.2	4.2	3.1	3.1	2.1	2.1	2.1	2.1	3.1	3.1	4.2
170°	4.2	4.2	3.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	2.1
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°	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5	4353.5
2.5°	4328.5	4321.2	4325.4	4326.4	4329.5	4333.7	4323.3	4322.3	4325.4	4325.4
5°	4159.0	4168.3	4167.3	4175.6	4180.8	4176.7	4177.7	4180.8	4185.0	4175.6
7.5°	3943.7	3949.9	3961.4	3953.1	3963.5	3958.3	3973.9	3964.5	3982.2	3985.3
10°	3750.3	3751.3	3764.8	3770.0	3782.5	3763.8	3758.6	3754.4	3743.0	3748.2
12.5°	3608.8	3589.1	3573.5	3582.8	3598.4	3609.9	3630.7	3644.2	3650.4	3652.5
15°	3487.1	3506.9	3516.3	3515.2	3498.6	3493.4	3490.3	3494.4	3505.9	3513.1
17.5°	3433.1	3418.5	3405.0	3436.2	3454.9	3466.3	3467.4	3460.1	3455.9	3437.2
20°	3328.0	3357.1	3385.2	3361.3	3344.7	3339.5	3334.3	3351.9	3363.4	3364.4
22.5°	3284.3	3304.1	3265.6	3302.0	3320.7	3325.9	3313.5	3297.9	3286.4	3277.1
25°	3211.5	3203.2	3243.8	3220.9	3210.5	3200.1	3215.7	3223.0	3220.9	3225.1
27.5°	3122.1	3153.3	3124.2	3146.0	3167.9	3176.2	3151.2	3130.4	3114.8	3110.7
30°	3071.1	3048.3	3100.3	3086.7	3068.0	3058.7	3055.5	3062.8	3064.9	3067.0
32.5°	2989.0	3012.9	2990.0	2982.7	3003.5	3011.9	3016.0	2997.3	2992.1	2981.7
35°	2912.0	2917.2	2913.1	2944.3	2929.7	2922.4	2918.3	2925.5	2929.7	2927.6
37.5°	2852.7	2825.7	2867.3	2839.2	2850.7	2855.9	2861.1	2841.3	2835.1	2819.5
40°	2743.5	2765.4	2744.6	2767.5	2767.5	2753.9	2732.1	2727.9	2732.1	2739.4
42.5°	2654.1	2656.2	2685.3	2649.9	2641.6	2640.6	2654.1	2651.0	2635.4	2642.7
45°	2562.6	2571.9	2542.8	2536.6	2543.9	2537.6	2517.9	2514.7	2523.1	2524.1
47.5°	2451.3	2463.8	2433.6	2431.5	2422.2	2412.8	2424.3	2431.5	2422.2	2420.1
50°	2347.3	2323.4	2331.7	2316.1	2320.3	2327.5	2303.6	2289.1	2289.1	2293.2
52.5°	2223.5	2230.8	2214.2	2232.9	2217.3	2203.8	2204.8	2199.6	2198.6	2198.6
55°	2100.8	2109.1	2120.6	2088.3	2086.3	2084.2	2076.9	2060.3	2048.8	2046.7
57.5°	1976.0	1977.1	1980.2	1969.8	1973.9	1964.6	1933.4	1937.5	1934.4	1928.2
60°	1832.5	1845.0	1826.3	1819.0	1813.8	1810.7	1807.5	1790.9	1779.4	1779.4
62.5°	1683.8	1674.4	1678.6	1663.0	1669.2	1670.2	1640.1	1627.6	1614.1	1609.9
65°	1535.0	1522.6	1519.4	1521.5	1513.2	1489.3	1478.9	1471.6	1456.0	1451.8
67.5°	1378.0	1380.1	1373.8	1358.2	1345.8	1339.5	1319.8	1301.0	1287.5	1283.4
70°	1221.0	1218.9	1222.0	1203.3	1208.5	1196.0	1171.0	1149.2	1143.0	1130.5
72.5°	1068.1	1071.2	1070.2	1069.1	1058.7	1044.2	1027.5	1010.9	1001.5	979.7
75°	923.5	936.0	926.6	918.3	912.1	903.8	894.4	862.2	844.5	833.0
77.5°	771.7	786.2	791.4	780.0	776.9	776.9	759.2	737.4	730.1	727.0
80°	624.0	640.6	653.1	654.2	653.1	647.9	643.8	640.6	637.5	634.4
82.5°	499.2	519.0	527.3	531.4	538.7	537.7	548.1	556.4	565.8	571.0
85°	385.8	403.5	421.2	435.8	444.1	454.5	467.0	487.8	520.0	548.1
87.5°	299.5	320.3	344.2	364.0	371.3	380.6	403.5	437.8	480.5	508.6
90°	250.6	273.5	296.4	316.2	324.5	337.0	363.0	394.2	431.6	450.3
92.5°	230.9	252.7	273.5	293.3	304.7	316.2	338.0	359.8	382.7	395.2
95°	220.5	240.2	260.0	278.7	288.1	298.5	313.0	331.8	347.4	354.6
97.5°	210.1	228.8	246.5	264.2	272.5	280.8	297.4	314.1	329.7	328.6
100°	200.7	218.4	234.0	249.6	256.9	264.2	277.7	285.0	289.1	290.2
102.5°	192.4	207.0	221.5	234.0	239.2	246.5	255.8	256.9	256.9	251.7
105°	182.0	196.6	209.0	217.4	222.6	225.7	227.8	226.7	222.6	220.5
107.5°	173.7	185.1	195.5	201.8	203.8	203.8	200.7	198.6	194.5	195.5
110°	165.4	175.8	183.0	186.2	187.2	187.2	185.1	182.0	179.9	179.9



TEST NUMBER: P241488

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	159.1	168.5	174.7	177.8	178.9	178.9	178.9	177.8	176.8	175.8
115°	153.9	164.3	170.6	175.8	177.8	178.9	181.0	182.0	181.0	181.0
117.5°	152.9	162.2	171.6	177.8	181.0	183.0	186.2	188.2	187.2	186.2
120°	150.8	162.2	171.6	179.9	183.0	186.2	190.3	192.4	191.4	190.3
122.5°	149.8	161.2	171.6	181.0	184.1	187.2	192.4	194.5	193.4	193.4
125°	145.6	158.1	169.5	178.9	182.0	185.1	191.4	193.4	194.5	194.5
127.5°	140.4	152.9	164.3	173.7	177.8	182.0	187.2	190.3	192.4	192.4
130°	133.1	146.6	158.1	167.4	171.6	175.8	181.0	186.2	188.2	189.3
132.5°	125.8	138.3	149.8	160.2	164.3	168.5	174.7	178.9	182.0	183.0
135°	117.5	129.0	140.4	149.8	153.9	159.1	165.4	170.6	173.7	174.7
137.5°	108.2	119.6	130.0	139.4	143.5	147.7	156.0	161.2	164.3	165.4
140°	98.8	110.2	119.6	129.0	133.1	137.3	144.6	149.8	152.9	153.9
142.5°	90.5	99.8	109.2	117.5	121.7	125.8	132.1	137.3	139.4	141.4
145°	80.1	89.4	97.8	106.1	109.2	112.3	118.6	122.7	124.8	125.8
147.5°	70.7	79.0	87.4	93.6	96.7	99.8	105.0	108.2	111.3	111.3
150°	60.3	68.6	75.9	82.2	85.3	87.4	91.5	94.6	95.7	96.7
152.5°	49.9	57.2	64.5	69.7	71.8	74.9	78.0	81.1	82.2	83.2
155°	39.5	46.8	53.0	58.2	60.3	62.4	64.5	67.6	68.6	69.7
157.5°	31.2	36.4	41.6	46.8	47.8	49.9	52.0	54.1	55.1	55.1
160°	22.9	27.0	31.2	35.4	37.4	38.5	41.6	41.6	43.7	43.7
162.5°	15.6	18.7	21.8	25.0	26.0	28.1	30.2	31.2	32.2	32.2
165°	10.4	11.4	14.6	16.6	16.6	17.7	20.8	20.8	20.8	21.8
167.5°	5.2	6.2	7.3	9.4	9.4	10.4	11.4	12.5	12.5	12.5
170°	2.1	2.1	3.1	3.1	3.1	4.2	4.2	5.2	5.2	5.2
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)