

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: P241379

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241379
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-LD4-40-3HI-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

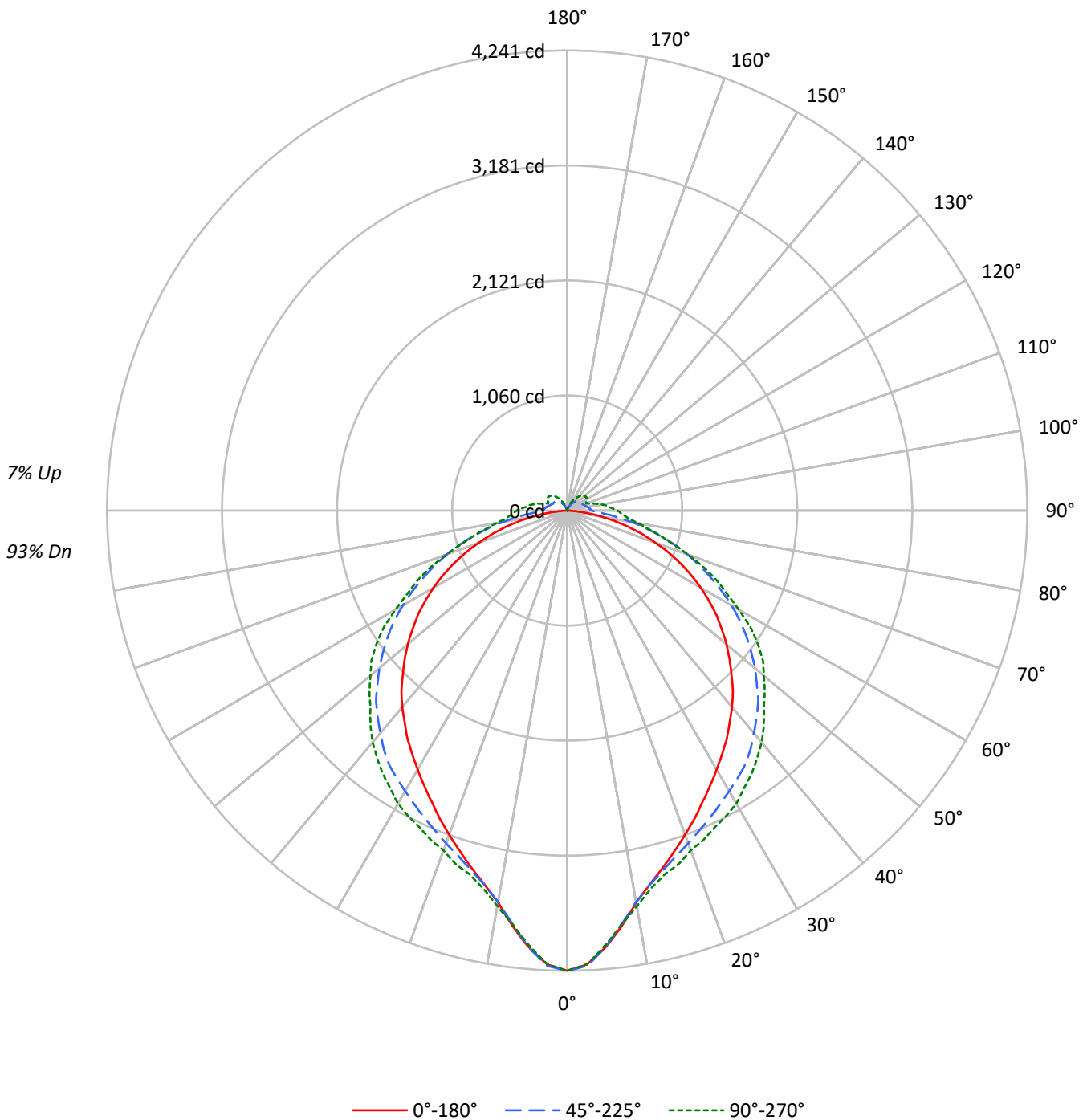
Lumens per Lamp: N/A
Luminaire Lumens: 11556.1 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.1 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')
CIE Type: Direct

Input Watts (W): 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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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	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°	24764	24764	24764
5°	23587	23294	23119
10°	21543	20989	21104
15°	20324	19684	19786
20°	19388	18927	19133
25°	18615	18420	18776
30°	18050	18082	18605
35°	17660	17929	18232
40°	17280	17526	17873
45°	16837	17202	17280
50°	16415	16639	16936
55°	15950	16047	16513
60°	15257	15253	15338
65°	14333	14217	14178
70°	12950	13100	12465
75°	11161	11433	10775
80°	8291	9481	9643
85°	4272	7242	9898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.3	3.2
10°-20°	971.2	8.4
20°-30°	1437.5	12.4
30°-40°	1759.6	15.2
40°-50°	1871.1	16.2
50°-60°	1754.2	15.2
60°-70°	1381.2	12.0
70°-80°	856.9	7.4
80°-90°	380.9	3.3
90°-100°	216.3	1.9
100°-110°	162.4	1.4
110°-120°	124.0	1.1
120°-130°	111.0	1.0
130°-140°	84.1	0.7
140°-150°	48.6	0.4
150°-160°	19.3	0.2
160°-170°	4.2	0.0
170°-180°	0.1	0.0
0°-30°	2782.1	24.1
0°-40°	4541.7	39.3
0°-60°	8166.9	70.7
0°-90°	10786.0	93.3
90°-120°	502.7	4.3
90°-150°	746.4	6.5
90°-180°	770.0	6.7
0°-180°	11556.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4241	4241	4241	4241	4241	
5°	4042	4045	4042	4024	4022	374
15°	3408	3399	3427	3464	3471	960
25°	2958	3033	3120	3208	3221	1366
35°	2566	2683	2860	2952	2962	1604
45°	2143	2299	2491	2554	2565	1655
55°	1681	1829	2017	2109	2145	1498
65°	1151	1280	1461	1502	1523	1136
75°	589	709	877	907	880	622
85°	101	213	350	445	529	130
90°	2	103	226	326	463	5
95°	1	94	210	297	380	1
105°	1	80	174	234	247	1
115°	1	70	148	177	194	1
125°	1	61	140	190	215	1
135°	2	48	121	170	195	2
145°	3	29	86	123	139	2
155°	3	12	41	68	76	1
165°	4	4	12	22	26	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241379

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4186.9	4193.9	4193.9	4194.9	4192.9	4198.9	4196.9	4197.9	4199.9	4202.9	4199.9
5°	4041.9	4045.9	4041.9	4045.9	4042.9	4044.9	4046.9	4041.9	4044.9	4036.9	4041.9
7.5°	3860.9	3856.9	3848.9	3841.9	3840.9	3840.9	3842.9	3847.9	3850.9	3847.9	3844.9
10°	3665.9	3671.9	3670.9	3665.9	3665.9	3665.9	3670.9	3668.9	3660.9	3662.9	3661.9
12.5°	3525.9	3528.9	3522.9	3519.9	3512.9	3519.9	3514.9	3511.9	3524.9	3530.9	3529.9
15°	3407.9	3403.9	3403.9	3398.9	3395.9	3398.9	3400.9	3403.9	3411.9	3420.9	3426.9
17.5°	3290.9	3293.9	3291.9	3291.9	3295.9	3293.9	3302.9	3314.9	3328.9	3335.9	3337.9
20°	3177.9	3179.9	3186.9	3186.9	3195.9	3202.9	3210.9	3224.9	3234.9	3251.9	3262.9
22.5°	3069.9	3069.9	3078.9	3092.9	3103.9	3114.9	3126.9	3145.9	3153.9	3172.9	3187.9
25°	2957.9	2963.9	2978.9	2994.9	3015.9	3032.9	3044.9	3060.9	3085.9	3099.9	3119.9
27.5°	2855.9	2868.9	2877.9	2903.9	2928.9	2944.9	2959.9	2982.9	3004.9	3028.9	3051.9
30°	2755.9	2763.9	2778.9	2808.9	2843.9	2860.9	2868.9	2902.9	2925.9	2961.9	2984.9
32.5°	2657.9	2667.9	2687.9	2711.9	2752.9	2769.9	2786.9	2824.9	2853.9	2888.9	2922.9
35°	2565.9	2566.9	2594.9	2625.9	2662.9	2682.9	2699.9	2738.9	2779.9	2817.9	2859.9
37.5°	2458.9	2472.9	2492.9	2528.9	2565.9	2591.9	2613.9	2652.9	2703.9	2744.9	2774.9
40°	2364.0	2375.0	2395.0	2428.9	2467.9	2494.9	2518.9	2569.9	2616.9	2655.9	2676.9
42.5°	2261.0	2264.0	2293.0	2332.0	2373.0	2397.0	2423.9	2476.9	2517.9	2551.9	2585.9
45°	2143.0	2159.0	2188.0	2226.0	2276.0	2299.0	2327.0	2377.0	2422.9	2456.9	2490.9
47.5°	2030.0	2046.0	2075.0	2118.0	2168.0	2190.0	2218.0	2261.0	2317.0	2351.0	2371.0
50°	1917.0	1934.0	1964.0	2004.0	2054.0	2074.0	2098.0	2155.0	2198.0	2231.0	2259.0
52.5°	1795.0	1814.0	1842.0	1888.0	1934.0	1958.0	1975.0	2029.0	2073.0	2117.0	2138.0
55°	1681.0	1685.0	1719.0	1762.0	1805.0	1829.0	1851.0	1901.0	1948.0	1984.0	2017.0
57.5°	1551.0	1559.0	1587.0	1636.0	1675.0	1699.0	1720.0	1772.0	1809.0	1852.0	1887.0
60°	1422.0	1430.0	1456.0	1492.0	1534.0	1561.0	1583.0	1634.0	1676.0	1716.0	1749.0
62.5°	1287.0	1300.0	1323.0	1356.0	1398.0	1424.0	1445.0	1492.0	1536.0	1567.0	1607.0
65°	1151.0	1155.0	1183.0	1220.0	1258.0	1280.0	1305.0	1347.0	1388.0	1427.0	1461.0
67.5°	1011.0	1018.0	1038.0	1076.0	1116.0	1141.0	1162.0	1203.0	1250.0	1285.0	1317.0
70°	865.0	877.0	899.0	936.0	975.0	999.0	1011.0	1055.0	1096.0	1143.0	1180.0
72.5°	728.0	738.0	764.0	789.0	831.0	850.0	872.0	911.0	954.0	993.0	1034.0
75°	589.0	602.0	617.0	649.0	685.0	709.0	735.0	765.0	811.0	848.0	877.0
77.5°	453.0	458.0	483.0	517.0	550.0	572.0	585.0	624.0	669.0	710.0	737.0
80°	318.0	328.0	355.0	386.0	413.0	438.0	452.0	489.0	535.0	573.0	595.0
82.5°	200.0	210.0	236.0	263.0	296.0	318.0	332.0	372.0	413.0	446.0	467.0
85°	101.0	113.0	135.0	159.0	197.0	213.0	229.0	263.0	304.0	326.0	350.0
87.5°	33.0	42.0	64.0	89.0	120.0	138.0	152.0	189.0	218.0	245.0	267.0
90°	2.0	11.0	31.0	58.0	88.0	103.0	120.0	151.0	179.0	204.0	226.0
92.5°	1.0	9.0	28.0	54.0	83.0	98.0	113.0	142.0	167.0	191.0	216.0
95°	1.0	8.0	27.0	52.0	80.0	94.0	108.0	135.0	161.0	186.0	210.0
97.5°	1.0	7.0	25.0	50.0	77.0	90.0	103.0	129.0	155.0	179.0	201.0
100°	1.0	7.0	24.0	48.0	73.0	86.0	99.0	125.0	148.0	171.0	192.0
102.5°	1.0	7.0	23.0	46.0	70.0	82.0	95.0	119.0	142.0	164.0	183.0
105°	1.0	6.0	22.0	43.0	67.0	80.0	91.0	114.0	136.0	155.0	174.0
107.5°	1.0	6.0	21.0	42.0	65.0	76.0	88.0	110.0	130.0	149.0	166.0
110°	1.0	5.0	20.0	40.0	63.0	74.0	85.0	106.0	126.0	143.0	158.0



TEST NUMBER: P241379

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.0	5.0	19.0	38.0	61.0	72.0	83.0	104.0	122.0	139.0	153.0
115°	1.0	5.0	18.0	37.0	59.0	70.0	81.0	101.0	119.0	135.0	148.0
117.5°	1.0	4.0	17.0	36.0	57.0	68.0	79.0	98.0	117.0	132.0	145.0
120°	1.0	4.0	16.0	34.0	55.0	66.0	76.0	96.0	115.0	130.0	143.0
122.5°	1.0	4.0	15.0	33.0	53.0	63.0	74.0	94.0	112.0	129.0	142.0
125°	1.0	3.0	15.0	32.0	51.0	61.0	72.0	91.0	110.0	126.0	140.0
127.5°	2.0	3.0	14.0	30.0	49.0	58.0	68.0	88.0	106.0	123.0	136.0
130°	2.0	3.0	12.0	28.0	46.0	55.0	65.0	84.0	102.0	118.0	132.0
132.5°	2.0	2.0	11.0	26.0	43.0	52.0	61.0	80.0	97.0	113.0	127.0
135°	2.0	2.0	10.0	23.0	40.0	48.0	57.0	75.0	92.0	107.0	121.0
137.5°	2.0	2.0	8.0	21.0	35.0	43.0	52.0	69.0	85.0	99.0	114.0
140°	2.0	2.0	7.0	18.0	31.0	38.0	46.0	62.0	78.0	92.0	105.0
142.5°	2.0	2.0	6.0	15.0	27.0	33.0	40.0	55.0	70.0	83.0	96.0
145°	3.0	2.0	5.0	13.0	23.0	29.0	34.0	48.0	61.0	73.0	86.0
147.5°	3.0	2.0	4.0	10.0	19.0	24.0	29.0	41.0	52.0	63.0	75.0
150°	3.0	3.0	3.0	8.0	15.0	19.0	24.0	34.0	43.0	53.0	63.0
152.5°	3.0	3.0	3.0	7.0	12.0	16.0	19.0	27.0	36.0	44.0	52.0
155°	3.0	3.0	3.0	5.0	9.0	12.0	15.0	21.0	28.0	35.0	41.0
157.5°	3.0	3.0	3.0	4.0	7.0	9.0	11.0	16.0	22.0	27.0	32.0
160°	4.0	3.0	3.0	3.0	5.0	7.0	9.0	12.0	16.0	20.0	24.0
162.5°	4.0	3.0	3.0	3.0	4.0	5.0	6.0	9.0	12.0	15.0	18.0
165°	4.0	4.0	3.0	2.0	3.0	4.0	4.0	6.0	8.0	10.0	12.0
167.5°	4.0	4.0	3.0	3.0	2.0	2.0	3.0	4.0	5.0	6.0	7.0
170°	4.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	4.0
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°	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9	4240.9
2.5°	4193.9	4191.9	4187.9	4187.9	4187.9	4184.9	4183.9	4178.9	4179.9	4184.9
5°	4028.9	4034.9	4022.9	4025.9	4023.9	4025.9	4025.9	4026.9	4019.9	4021.9
7.5°	3837.9	3837.9	3834.9	3841.9	3834.9	3836.9	3840.9	3840.9	3841.9	3845.9
10°	3664.9	3667.9	3671.9	3679.9	3682.9	3686.9	3684.9	3696.9	3697.9	3700.9
12.5°	3536.9	3546.9	3546.9	3556.9	3558.9	3558.9	3569.9	3570.9	3572.9	3566.9
15°	3432.9	3443.9	3452.9	3463.9	3463.9	3472.9	3488.9	3472.9	3480.9	3470.9
17.5°	3352.9	3362.9	3375.9	3379.9	3384.9	3391.9	3403.9	3407.9	3412.9	3416.9
20°	3275.9	3288.9	3303.9	3321.9	3330.9	3327.9	3320.9	3336.9	3327.9	3331.9
22.5°	3205.9	3228.9	3235.9	3246.9	3258.9	3266.9	3276.9	3285.9	3286.9	3284.9
25°	3138.9	3157.9	3183.9	3205.9	3207.9	3209.9	3209.9	3212.9	3217.9	3220.9
27.5°	3074.9	3107.9	3123.9	3145.9	3156.9	3169.9	3187.9	3181.9	3179.9	3172.9
30°	3016.9	3046.9	3079.9	3109.9	3111.9	3112.9	3106.9	3110.9	3110.9	3118.9
32.5°	2957.9	2993.9	3016.9	3021.9	3029.9	3040.9	3044.9	3038.9	3036.9	3033.9
35°	2885.9	2915.9	2920.9	2944.9	2951.9	2948.9	2942.9	2945.9	2951.9	2961.9
37.5°	2798.9	2815.9	2852.9	2855.9	2862.9	2870.9	2885.9	2881.9	2879.9	2875.9
40°	2706.9	2735.9	2754.9	2776.9	2782.9	2780.9	2771.9	2777.9	2784.9	2788.9
42.5°	2612.9	2635.9	2659.9	2665.9	2667.9	2672.9	2681.9	2692.9	2686.9	2682.9
45°	2510.9	2527.9	2535.9	2548.9	2553.9	2554.9	2553.9	2554.9	2561.9	2564.9
47.5°	2395.0	2414.9	2418.9	2431.9	2431.9	2437.9	2450.9	2459.9	2464.9	2470.9
50°	2276.0	2290.0	2314.0	2321.0	2332.0	2345.0	2345.0	2350.0	2358.0	2366.0
52.5°	2166.0	2183.0	2199.0	2223.0	2223.0	2227.0	2240.0	2259.0	2269.0	2275.0
55°	2037.0	2061.0	2089.0	2105.0	2109.0	2122.0	2134.0	2137.0	2139.0	2145.0
57.5°	1906.0	1935.0	1959.0	1987.0	1987.0	1987.0	1997.0	2004.0	2010.0	2003.0
60°	1778.0	1801.0	1820.0	1837.0	1828.0	1837.0	1839.0	1830.0	1826.0	1827.0
62.5°	1637.0	1659.0	1671.0	1668.0	1667.0	1667.0	1662.0	1654.0	1657.0	1658.0
65°	1499.0	1505.0	1510.0	1512.0	1502.0	1499.0	1502.0	1510.0	1511.0	1523.0
67.5°	1346.0	1356.0	1353.0	1357.0	1354.0	1354.0	1349.0	1348.0	1337.0	1356.0
70°	1199.0	1205.0	1213.0	1212.0	1207.0	1199.0	1184.0	1182.0	1174.0	1183.0
72.5°	1045.0	1063.0	1062.0	1060.0	1056.0	1049.0	1032.0	1026.0	1017.0	1015.0
75°	899.0	909.0	914.0	914.0	907.0	905.0	895.0	886.0	883.0	880.0
77.5°	755.0	769.0	774.0	776.0	771.0	774.0	766.0	758.0	754.0	761.0
80°	620.0	628.0	639.0	648.0	653.0	651.0	651.0	653.0	650.0	654.0
82.5°	487.0	503.0	522.0	529.0	540.0	544.0	553.0	564.0	572.0	575.0
85°	373.0	394.0	415.0	433.0	445.0	457.0	478.0	501.0	519.0	529.0
87.5°	293.0	315.0	340.0	364.0	373.0	381.0	398.0	429.0	468.0	493.0
90°	252.0	279.0	297.0	314.0	326.0	336.0	363.0	397.0	441.0	463.0
92.5°	241.0	259.0	279.0	299.0	312.0	324.0	348.0	376.0	405.0	423.0
95°	229.0	250.0	272.0	288.0	297.0	307.0	326.0	347.0	370.0	380.0
97.5°	222.0	242.0	258.0	274.0	283.0	293.0	311.0	332.0	351.0	360.0
100°	211.0	228.0	244.0	260.0	269.0	277.0	295.0	311.0	320.0	323.0
102.5°	200.0	216.0	232.0	246.0	253.0	260.0	272.0	282.0	284.0	287.0
105°	191.0	205.0	217.0	229.0	234.0	239.0	247.0	248.0	248.0	247.0
107.5°	181.0	193.0	203.0	210.0	212.0	214.0	216.0	214.0	213.0	213.0
110°	172.0	181.0	188.0	192.0	193.0	194.0	193.0	193.0	194.0	193.0



TEST NUMBER: P241379

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	164.0	172.0	177.0	179.0	180.0	181.0	183.0	185.0	187.0	188.0
115°	158.0	165.0	170.0	175.0	177.0	179.0	184.0	189.0	193.0	194.0
117.5°	155.0	163.0	171.0	177.0	181.0	184.0	191.0	198.0	202.0	203.0
120°	155.0	165.0	174.0	182.0	186.0	190.0	198.0	205.0	209.0	211.0
122.5°	154.0	166.0	176.0	185.0	189.0	193.0	201.0	208.0	213.0	215.0
125°	153.0	165.0	176.0	186.0	190.0	194.0	202.0	208.0	213.0	215.0
127.5°	149.0	162.0	173.0	183.0	188.0	193.0	200.0	206.0	211.0	213.0
130°	145.0	157.0	168.0	179.0	184.0	189.0	197.0	203.0	208.0	210.0
132.5°	139.0	152.0	163.0	173.0	178.0	183.0	191.0	198.0	202.0	204.0
135°	133.0	146.0	156.0	165.0	170.0	175.0	183.0	189.0	194.0	195.0
137.5°	126.0	137.0	148.0	157.0	161.0	165.0	172.0	179.0	182.0	184.0
140°	117.0	128.0	138.0	146.0	150.0	154.0	160.0	165.0	169.0	171.0
142.5°	108.0	118.0	126.0	134.0	138.0	140.0	146.0	151.0	154.0	155.0
145°	97.0	106.0	114.0	121.0	123.0	126.0	131.0	135.0	137.0	139.0
147.5°	85.0	93.0	101.0	107.0	110.0	112.0	117.0	120.0	122.0	123.0
150°	73.0	81.0	88.0	93.0	95.0	98.0	101.0	105.0	106.0	107.0
152.5°	60.0	68.0	74.0	80.0	82.0	83.0	87.0	89.0	91.0	91.0
155°	49.0	55.0	61.0	66.0	68.0	69.0	72.0	74.0	75.0	76.0
157.5°	38.0	43.0	49.0	54.0	55.0	56.0	59.0	60.0	61.0	62.0
160°	29.0	33.0	37.0	41.0	43.0	45.0	47.0	48.0	49.0	48.0
162.5°	21.0	24.0	27.0	30.0	32.0	34.0	36.0	37.0	37.0	37.0
165°	14.0	17.0	19.0	21.0	22.0	23.0	26.0	26.0	26.0	26.0
167.5°	9.0	10.0	11.0	13.0	13.0	14.0	16.0	17.0	17.0	17.0
170°	4.0	5.0	6.0	6.0	7.0	7.0	8.0	9.0	9.0	8.0
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)