

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: P241342

Luminaire Tested: **FVS8M-2-LD4-35-3HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241342  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-13)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-2-LD4-35-3HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
2FT LENGTH, 3-MODULE LED WITH P125 LENS  
Light Source: (126) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

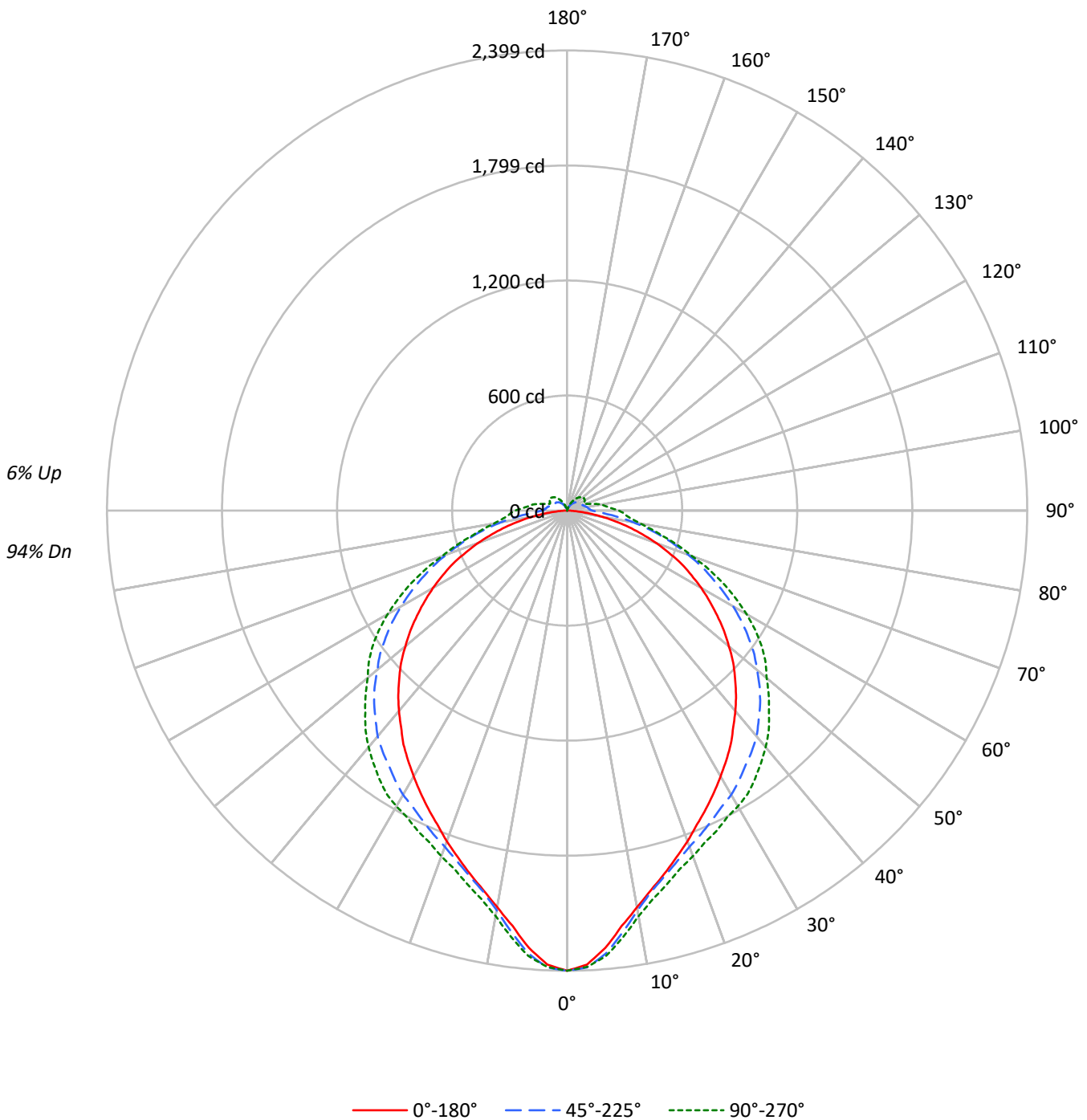
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6614.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.11 / 1.29  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 66.5  
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-2-LD4-35-3HI-P125-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	106	101	97	93	103	98	94	91	93	90	87	88	85	83	84	81	79	77
2	96	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	50	44	56	49	43	54	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	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21564	21564	21564
5°	20507	20535	20620
10°	18898	18597	18839
15°	17863	17340	17681
20°	17061	16543	16953
25°	16398	16067	16532
30°	15880	15797	16342
35°	15472	15457	16176
40°	15017	15272	15883
45°	14586	14885	15437
50°	14083	14374	14956
55°	13462	13837	14702
60°	12776	13090	13969
65°	11986	12150	12864
70°	10674	11069	11222
75°	8919	9719	9808
80°	6594	8132	8764
85°	3193	6249	8948



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.4	3.2
10°-20°	558.8	8.4
20°-30°	823.1	12.4
30°-40°	1010.6	15.3
40°-50°	1075.0	16.3
50°-60°	1005.8	15.2
60°-70°	797.7	12.1
70°-80°	497.9	7.5
80°-90°	223.5	3.4
90°-100°	119.9	1.8
100°-110°	87.4	1.3
110°-120°	63.9	1.0
120°-130°	56.4	0.9
130°-140°	42.4	0.6
140°-150°	25.0	0.4
150°-160°	10.1	0.2
160°-170°	2.0	0.0
170°-180°	0.0	0.0
0°-30°	1596.4	24.1
0°-40°	2607.0	39.4
0°-60°	4687.8	70.9
0°-90°	6206.9	93.8
90°-120°	271.2	4.1
90°-150°	395.0	6.0
90°-180°	407.0	6.2
0°-180°	6614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2399	2399	2399	2399	2399	
5°	2288	2300	2319	2324	2330	212
15°	1960	1962	1971	1991	2015	552
25°	1714	1736	1783	1830	1842	790
35°	1488	1540	1621	1703	1707	929
45°	1238	1313	1423	1475	1489	955
55°	956	1041	1154	1212	1241	854
65°	659	727	835	885	898	646
75°	332	402	505	542	520	353
85°	59	122	210	262	311	75
90°	1	58	130	192	270	3
95°	0	51	114	165	215	0
105°	0	41	93	125	135	0
115°	0	35	76	91	98	0
125°	0	30	72	98	109	0
135°	1	24	61	86	99	1
145°	1	15	44	64	72	1
155°	1	5	22	36	40	0
165°	1	1	5	11	13	0
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°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2368.7	2371.6	2372.6	2373.6	2373.6	2376.5	2376.5	2378.5	2381.4	2383.4	2384.3
5°	2288.3	2294.2	2289.3	2294.2	2298.1	2300.1	2303.0	2305.0	2310.8	2316.7	2318.7
7.5°	2183.4	2185.4	2188.3	2191.3	2195.2	2194.2	2196.2	2203.0	2209.9	2218.7	2217.7
10°	2099.2	2099.2	2099.2	2099.2	2099.2	2102.1	2103.1	2106.0	2110.9	2119.7	2114.8
12.5°	2024.7	2026.6	2029.6	2028.6	2026.6	2025.7	2022.7	2026.6	2027.6	2033.5	2031.5
15°	1960.0	1957.1	1960.0	1962.0	1960.0	1962.0	1961.0	1963.9	1962.9	1964.9	1970.8
17.5°	1894.3	1901.2	1903.2	1898.3	1900.2	1902.2	1903.2	1902.2	1902.2	1910.0	1913.9
20°	1834.6	1837.5	1837.5	1836.5	1840.4	1841.4	1846.3	1846.3	1851.2	1861.0	1864.9
22.5°	1769.9	1775.8	1779.7	1778.7	1789.5	1789.5	1790.5	1794.4	1808.1	1812.0	1824.8
25°	1714.0	1719.9	1721.9	1725.8	1733.6	1735.6	1735.6	1752.2	1757.1	1768.9	1782.6
27.5°	1657.2	1661.1	1663.1	1669.9	1682.7	1682.7	1687.6	1704.2	1715.0	1728.7	1742.4
30°	1599.4	1608.2	1608.2	1619.0	1629.7	1632.7	1644.4	1659.1	1676.8	1688.5	1711.1
32.5°	1543.5	1547.4	1551.3	1568.0	1579.8	1588.6	1597.4	1616.0	1630.7	1651.3	1668.0
35°	1487.6	1492.5	1496.5	1514.1	1524.9	1539.6	1550.4	1573.9	1588.6	1608.2	1620.9
37.5°	1422.0	1429.8	1438.6	1452.4	1473.9	1485.7	1495.5	1523.9	1540.6	1558.2	1581.7
40°	1364.2	1372.0	1381.8	1396.5	1420.0	1428.8	1441.6	1465.1	1492.5	1513.1	1536.6
42.5°	1303.4	1312.2	1322.0	1339.7	1358.3	1370.0	1384.7	1409.2	1436.7	1462.2	1477.8
45°	1237.7	1245.6	1258.3	1275.0	1298.5	1313.2	1325.0	1354.4	1375.9	1402.4	1423.0
47.5°	1175.0	1178.9	1192.7	1215.2	1235.8	1253.4	1265.2	1290.7	1319.1	1338.7	1361.2
50°	1101.5	1106.4	1121.1	1143.7	1171.1	1187.8	1194.6	1226.0	1249.5	1275.0	1291.6
52.5°	1030.0	1037.8	1055.5	1076.0	1101.5	1116.2	1129.0	1151.5	1181.9	1204.4	1229.9
55°	955.5	965.3	981.0	1003.5	1026.1	1040.8	1055.5	1080.9	1108.4	1134.8	1154.4
57.5°	881.0	890.8	906.5	929.0	951.6	963.3	978.0	1004.5	1035.9	1061.3	1080.0
60°	807.5	814.4	831.0	850.6	873.2	887.9	898.7	926.1	955.5	978.0	999.6
62.5°	731.1	737.9	751.7	770.3	795.8	808.5	818.3	846.7	874.2	895.7	919.2
65°	658.6	658.6	675.2	690.9	712.5	727.2	741.9	766.4	789.9	813.4	835.0
67.5°	571.3	580.2	591.9	609.6	634.1	646.8	661.5	685.0	706.6	735.0	755.6
70°	493.9	497.8	511.6	531.2	550.8	563.5	578.2	599.8	624.3	649.7	670.3
72.5°	410.6	418.5	430.2	452.8	468.4	481.2	494.9	517.4	541.0	566.4	587.0
75°	332.2	339.1	350.8	368.5	389.1	401.8	412.6	436.1	458.6	487.1	504.7
77.5°	257.7	260.7	273.4	290.1	315.6	322.4	335.2	356.7	382.2	404.7	426.3
80°	184.2	190.1	199.9	215.6	238.1	248.9	259.7	283.2	304.8	329.3	348.9
82.5°	115.6	124.5	132.3	152.9	170.5	179.3	192.1	212.7	237.2	257.7	275.4
85°	58.8	65.7	77.4	92.1	111.7	122.5	131.3	153.9	174.4	194.0	209.7
87.5°	22.5	27.4	37.2	52.9	70.6	79.4	90.2	108.8	128.4	144.1	159.7
90°	1.0	6.9	17.6	32.3	49.0	57.8	66.6	85.3	101.9	116.6	130.3
92.5°	0.0	4.9	14.7	29.4	45.1	52.9	61.7	77.4	91.1	104.9	118.6
95°	0.0	3.9	13.7	27.4	42.1	51.0	58.8	73.5	87.2	100.0	113.7
97.5°	0.0	3.9	12.7	26.5	41.2	49.0	55.9	69.6	82.3	96.0	108.8
100°	0.0	3.9	12.7	25.5	39.2	46.1	52.9	65.7	79.4	92.1	103.9
102.5°	0.0	2.9	11.8	23.5	37.2	44.1	50.0	62.7	75.5	87.2	99.0
105°	0.0	2.9	10.8	22.5	35.3	41.2	48.0	60.8	72.5	83.3	93.1
107.5°	0.0	2.9	10.8	21.6	33.3	40.2	46.1	57.8	69.6	79.4	88.2
110°	0.0	2.0	9.8	20.6	32.3	38.2	44.1	55.9	66.6	75.5	84.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	2.0	8.8	19.6	30.4	36.3	42.1	53.9	63.7	72.5	79.4
115°	0.0	2.0	8.8	18.6	29.4	35.3	41.2	51.9	61.7	69.6	76.4
117.5°	0.0	2.0	7.8	17.6	28.4	34.3	39.2	50.0	59.8	67.6	74.5
120°	0.0	2.0	7.8	16.7	27.4	33.3	38.2	49.0	57.8	66.6	73.5
122.5°	0.0	1.0	6.9	15.7	26.5	31.4	37.2	47.0	56.8	65.7	72.5
125°	0.0	1.0	6.9	14.7	25.5	30.4	36.3	46.1	55.9	64.7	71.5
127.5°	0.0	1.0	5.9	13.7	23.5	28.4	34.3	44.1	53.9	62.7	69.6
130°	0.0	1.0	4.9	12.7	22.5	27.4	32.3	42.1	51.0	59.8	66.6
132.5°	1.0	1.0	4.9	11.8	20.6	25.5	30.4	39.2	48.0	56.8	63.7
135°	1.0	1.0	3.9	10.8	18.6	23.5	27.4	37.2	45.1	53.9	60.8
137.5°	1.0	1.0	3.9	9.8	17.6	21.6	25.5	34.3	42.1	50.0	56.8
140°	1.0	1.0	2.9	8.8	15.7	19.6	23.5	31.4	39.2	46.1	52.9
142.5°	1.0	1.0	2.0	6.9	13.7	16.7	20.6	28.4	35.3	42.1	48.0
145°	1.0	1.0	2.0	5.9	11.8	14.7	17.6	24.5	31.4	37.2	44.1
147.5°	1.0	1.0	1.0	4.9	8.8	11.8	14.7	21.6	27.4	33.3	39.2
150°	1.0	1.0	1.0	2.9	6.9	9.8	11.8	17.6	22.5	28.4	33.3
152.5°	1.0	1.0	1.0	2.0	5.9	6.9	9.8	13.7	18.6	23.5	28.4
155°	1.0	1.0	1.0	2.0	3.9	4.9	6.9	10.8	14.7	18.6	22.5
157.5°	1.0	1.0	1.0	1.0	2.9	3.9	4.9	7.8	10.8	13.7	17.6
160°	1.0	1.0	1.0	1.0	2.0	2.0	2.9	4.9	7.8	9.8	12.7
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.9	4.9	6.9	8.8
165°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.9	3.9	4.9
167.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.9
170°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2385.3	2384.3	2385.3	2384.3	2384.3	2383.4	2384.3	2383.4	2381.4	2381.4
5°	2318.7	2325.5	2326.5	2328.5	2323.6	2326.5	2326.5	2326.5	2326.5	2330.4
7.5°	2223.6	2233.4	2233.4	2233.4	2238.3	2239.3	2242.2	2242.2	2241.3	2241.3
10°	2122.7	2130.5	2133.5	2134.4	2140.3	2140.3	2145.2	2143.3	2146.2	2146.2
12.5°	2032.5	2036.4	2047.2	2057.0	2056.0	2060.9	2065.8	2069.8	2066.8	2072.7
15°	1972.7	1979.6	1984.5	1987.4	1991.4	1997.2	2002.1	2008.0	2010.0	2014.9
17.5°	1913.9	1923.7	1932.6	1942.4	1947.3	1949.2	1952.2	1955.1	1958.0	1958.0
20°	1874.7	1882.6	1889.4	1893.4	1898.3	1903.2	1904.1	1910.0	1912.0	1917.9
22.5°	1834.6	1840.4	1849.3	1859.1	1862.0	1865.9	1867.9	1870.8	1875.7	1873.8
25°	1795.4	1806.1	1817.9	1822.8	1829.7	1835.5	1839.5	1845.3	1847.3	1842.4
27.5°	1760.1	1766.9	1789.5	1800.3	1805.2	1805.2	1805.2	1811.0	1810.1	1804.2
30°	1720.9	1740.5	1756.2	1761.1	1765.0	1769.9	1775.8	1778.7	1776.7	1779.7
32.5°	1684.6	1698.3	1718.9	1732.6	1736.6	1741.5	1744.4	1749.3	1751.3	1752.2
35°	1643.5	1664.0	1689.5	1696.4	1703.2	1710.1	1712.1	1709.1	1713.0	1707.2
37.5°	1601.3	1629.7	1635.6	1653.3	1656.2	1656.2	1657.2	1659.1	1661.1	1659.1
40°	1556.2	1566.0	1587.6	1593.5	1595.4	1598.4	1604.3	1605.2	1606.2	1610.1
42.5°	1498.4	1515.1	1524.9	1544.5	1545.5	1545.5	1545.5	1548.4	1553.3	1556.2
45°	1433.7	1452.4	1466.1	1475.9	1474.9	1479.8	1484.7	1484.7	1487.6	1488.6
47.5°	1376.9	1385.7	1393.6	1403.4	1411.2	1411.2	1414.1	1418.1	1422.0	1425.9
50°	1306.3	1322.0	1330.8	1340.6	1338.7	1342.6	1352.4	1357.3	1355.3	1357.3
52.5°	1241.7	1253.4	1268.1	1274.0	1280.9	1285.8	1286.7	1294.6	1300.5	1304.4
55°	1173.1	1181.9	1196.6	1212.3	1212.3	1214.2	1226.0	1232.8	1240.7	1240.7
57.5°	1097.6	1112.3	1129.0	1133.9	1141.7	1150.5	1159.3	1162.3	1165.2	1164.2
60°	1014.3	1034.9	1050.6	1061.3	1065.3	1069.2	1069.2	1080.0	1080.9	1080.9
62.5°	937.9	955.5	967.3	971.2	972.2	978.0	980.0	983.9	982.0	989.8
65°	854.6	870.2	878.1	882.0	884.9	884.0	886.9	890.8	898.7	897.7
67.5°	776.2	782.0	789.9	795.8	795.8	800.7	803.6	808.5	799.7	798.7
70°	689.9	702.7	706.6	717.4	713.4	713.4	705.6	698.7	689.9	691.9
72.5°	605.6	616.4	628.2	624.3	624.3	621.3	615.4	609.6	603.7	607.6
75°	521.4	536.1	542.9	541.9	541.9	540.0	533.1	529.2	525.3	520.4
77.5°	444.9	452.8	461.6	465.5	466.5	465.5	458.6	451.8	450.8	448.8
80°	362.6	372.4	381.2	388.1	389.1	389.1	387.1	387.1	384.2	386.1
82.5°	287.1	297.9	310.7	318.5	320.5	325.4	327.3	330.3	336.1	341.0
85°	220.5	236.2	247.9	257.7	261.7	264.6	275.4	288.1	301.8	310.7
87.5°	174.4	188.2	201.9	212.7	218.5	226.4	239.1	257.7	279.3	294.0
90°	145.0	158.8	173.5	186.2	192.1	198.9	214.6	233.2	258.7	270.5
92.5°	131.3	146.0	157.8	168.6	174.4	180.3	195.0	210.7	229.3	237.2
95°	126.4	137.2	147.0	158.8	164.6	171.5	183.3	196.0	207.8	214.6
97.5°	119.6	130.3	141.1	150.9	156.8	161.7	170.5	182.3	192.1	196.0
100°	114.7	124.5	133.3	142.1	147.0	150.9	161.7	172.5	178.4	181.3
102.5°	108.8	117.6	125.4	133.3	137.2	141.1	149.9	155.8	157.8	157.8
105°	101.9	110.7	117.6	124.5	125.4	128.4	133.3	135.2	135.2	135.2
107.5°	96.0	102.9	108.8	112.7	113.7	114.7	115.6	115.6	113.7	113.7
110°	91.1	96.0	100.0	101.9	100.9	101.9	101.9	100.9	100.9	100.9





TEST NUMBER: P241342

CATALOG NUMBER: FVS8M-2-LD4-35-3HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	86.2	90.2	92.1	94.1	94.1	94.1	94.1	96.0	96.0	96.0
115°	82.3	86.2	89.2	91.1	91.1	92.1	94.1	97.0	98.0	98.0
117.5°	80.4	85.3	88.2	91.1	93.1	94.1	98.0	100.0	101.9	101.9
120°	79.4	85.3	90.2	94.1	96.0	98.0	100.9	103.9	105.8	105.8
122.5°	79.4	85.3	91.1	95.1	98.0	99.0	102.9	105.8	107.8	107.8
125°	78.4	85.3	91.1	96.0	98.0	100.0	102.9	105.8	107.8	108.8
127.5°	76.4	83.3	89.2	94.1	96.0	99.0	101.9	104.9	106.8	107.8
130°	73.5	80.4	86.2	91.1	94.1	96.0	100.0	102.9	104.9	104.9
132.5°	70.6	77.4	82.3	88.2	91.1	93.1	97.0	100.0	101.9	101.9
135°	67.6	73.5	78.4	84.3	86.2	89.2	93.1	96.0	98.0	99.0
137.5°	63.7	69.6	74.5	79.4	82.3	84.3	88.2	91.1	93.1	94.1
140°	58.8	64.7	69.6	74.5	77.4	79.4	82.3	85.3	87.2	87.2
142.5°	53.9	59.8	64.7	68.6	70.6	72.5	75.5	78.4	79.4	80.4
145°	49.0	53.9	58.8	62.7	63.7	65.7	68.6	70.6	72.5	72.5
147.5°	43.1	48.0	51.9	54.9	56.8	57.8	60.8	62.7	63.7	64.7
150°	37.2	42.1	45.1	48.0	50.0	51.0	52.9	54.9	55.9	56.8
152.5°	32.3	35.3	39.2	41.2	43.1	44.1	46.1	47.0	48.0	48.0
155°	26.5	29.4	32.3	34.3	36.3	36.3	38.2	39.2	40.2	40.2
157.5°	20.6	23.5	26.5	28.4	29.4	30.4	31.4	32.3	32.3	33.3
160°	14.7	17.6	20.6	21.6	22.5	23.5	24.5	24.5	25.5	25.5
162.5°	10.8	12.7	14.7	15.7	16.7	16.7	17.6	18.6	18.6	18.6
165°	6.9	7.8	9.8	10.8	10.8	11.8	11.8	12.7	12.7	12.7
167.5°	2.9	3.9	4.9	5.9	5.9	6.9	6.9	6.9	7.8	6.9
170°	1.0	1.0	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9
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)