

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: P241329

Luminaire Tested: **FVS8M-2-LD4-30-2HI-P125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FVS8M-2-LD4-30-2HI-P125-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
2FT LENGTH, 2-MODULE LED WITH P125 LENS  
Light Source: (84) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

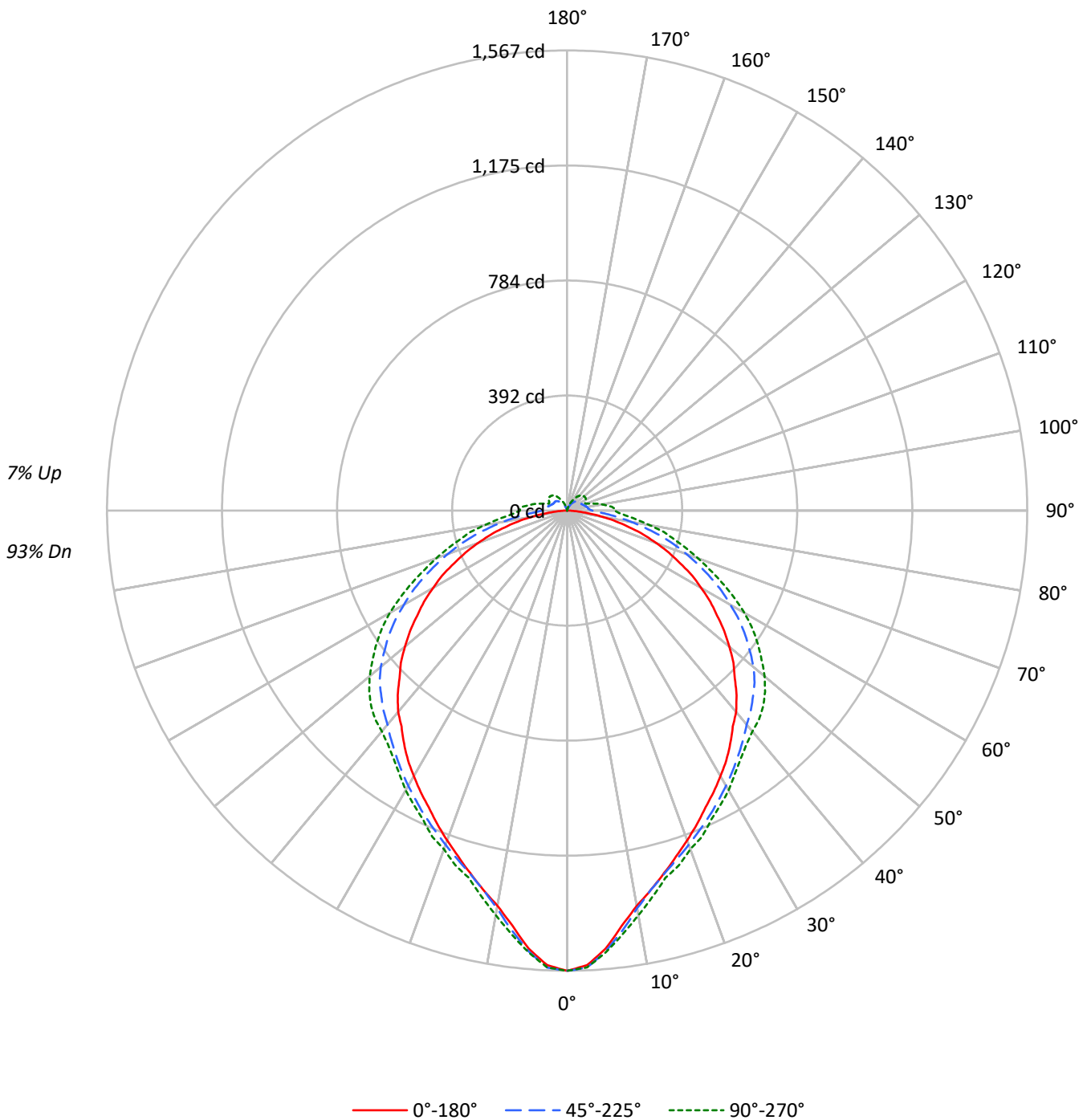
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4268.0 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.05 / 1.26  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 1.85' x H: 0.15')  
CIE Type: Direct  
  
Input Watts (W): 44.2  
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-LD4-30-2HI-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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	106	101	97	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	79	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	52
4	80	68	59	52	77	66	58	51	63	55	50	59	53	48	56	51	47	44
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38
6	68	54	45	39	65	53	44	38	50	43	37	48	42	36	46	40	36	33
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	30
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	39	33	28	26
9	55	41	33	27	53	40	32	27	39	31	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	24	36	29	24	34	28	24	33	27	23	21

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

	0°	45°	90°
0°	14086	14086	14086
5°	13421	13338	13359
10°	12298	12086	12279
15°	11644	11257	11359
20°	11112	10741	10844
25°	10667	10337	10418
30°	10369	9990	10100
35°	10071	9690	9762
40°	9852	9456	9682
45°	9517	9362	9789
50°	9220	9217	9676
55°	8782	8879	9402
60°	8330	8408	9015
65°	7717	7852	8353
70°	6970	7141	7699
75°	5880	6282	7087
80°	4306	5172	6444
85°	2145	3979	5821



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.5	3.3
10°-20°	362.8	8.5
20°-30°	527.9	12.4
30°-40°	633.4	14.8
40°-50°	683.2	16.0
50°-60°	647.1	15.2
60°-70°	515.8	12.1
70°-80°	330.7	7.7
80°-90°	146.9	3.4
90°-100°	77.5	1.8
100°-110°	59.1	1.4
110°-120°	44.0	1.0
120°-130°	40.0	0.9
130°-140°	31.4	0.7
140°-150°	19.1	0.4
150°-160°	7.9	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	1030.2	24.1
0°-40°	1663.6	39.0
0°-60°	2993.9	70.1
0°-90°	3987.2	93.4
90°-120°	180.6	4.2
90°-150°	271.1	6.4
90°-180°	281.0	6.6
0°-180°	4268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1498	1500	1506	1512	1510	138
15°	1278	1275	1280	1296	1294	360
25°	1115	1127	1147	1163	1161	515
35°	968	990	1016	1036	1030	606
45°	808	840	895	939	944	625
55°	623	669	741	781	793	559
65°	424	472	540	566	583	422
75°	219	260	326	366	376	233
85°	40	76	134	180	202	50
90°	0	34	86	118	161	2
95°	0	31	72	105	152	0
105°	0	28	63	86	92	0
115°	0	24	54	63	67	0
125°	0	21	52	69	76	0
135°	0	17	45	64	72	0
145°	1	11	33	49	56	0
155°	1	5	18	28	32	0
165°	1	1	5	10	11	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241329

CATALOG NUMBER: FVS8M-2-LD4-30-2HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1
2.5°	1549.3	1549.3	1549.3	1549.3	1551.2	1550.2	1552.1	1553.0	1554.9	1555.9	1557.7
5°	1497.6	1497.6	1495.7	1496.6	1497.6	1500.4	1499.5	1503.2	1505.1	1507.9	1506.0
7.5°	1426.1	1429.9	1428.0	1428.9	1428.0	1429.9	1433.7	1434.6	1439.3	1442.1	1442.1
10°	1366.0	1366.0	1362.2	1363.1	1363.1	1365.0	1365.0	1367.8	1370.7	1375.4	1374.4
12.5°	1321.8	1321.8	1317.1	1318.0	1315.2	1316.1	1316.1	1317.1	1319.0	1321.8	1321.8
15°	1277.6	1273.8	1273.8	1275.7	1275.7	1274.8	1275.7	1275.7	1275.7	1277.6	1279.5
17.5°	1234.3	1234.3	1235.3	1234.3	1236.2	1235.3	1235.3	1238.1	1240.0	1240.0	1243.8
20°	1194.9	1195.8	1194.9	1197.7	1200.5	1200.5	1200.5	1203.3	1203.3	1207.1	1210.8
22.5°	1155.4	1156.3	1159.1	1158.2	1162.0	1162.0	1161.0	1166.7	1169.5	1173.2	1177.9
25°	1115.0	1115.9	1117.8	1121.5	1123.4	1127.2	1129.1	1131.9	1139.4	1141.3	1146.9
27.5°	1080.2	1079.2	1081.1	1088.6	1088.6	1091.5	1095.2	1101.8	1102.7	1111.2	1114.0
30°	1044.4	1044.4	1044.4	1052.9	1054.8	1058.6	1062.3	1068.0	1072.7	1077.4	1082.1
32.5°	1008.7	1005.0	1007.8	1014.4	1023.8	1023.8	1025.6	1035.0	1038.8	1044.4	1050.1
35°	968.3	969.2	973.0	976.8	985.2	989.9	993.7	999.3	1004.0	1008.7	1016.2
37.5°	926.9	930.7	934.5	939.2	944.8	950.4	954.2	961.7	972.1	976.8	984.3
40°	895.0	893.1	895.9	899.7	906.3	911.9	918.5	926.9	936.3	943.9	951.4
42.5°	853.6	851.7	859.3	862.1	872.4	874.3	881.8	892.2	904.4	914.7	925.1
45°	807.5	811.3	816.0	824.5	831.0	839.5	846.1	856.4	872.4	885.6	895.0
47.5°	768.1	767.1	772.8	782.2	792.5	799.1	805.7	820.7	837.6	851.7	865.8
50°	721.1	723.9	729.5	739.9	753.0	756.8	762.4	781.2	797.2	815.1	828.2
52.5°	674.1	675.0	683.5	693.8	707.9	714.5	722.9	738.9	754.9	770.9	784.0
55°	623.3	626.1	637.4	646.8	661.8	669.4	678.8	694.7	711.7	727.6	740.8
57.5°	578.2	580.0	587.6	599.8	615.8	621.4	631.7	649.6	664.6	681.6	694.7
60°	526.5	530.2	537.7	552.8	565.0	570.6	581.9	598.8	613.9	629.9	642.1
62.5°	480.4	480.4	487.0	502.0	514.2	521.8	531.2	545.3	563.1	577.2	593.2
65°	424.0	429.6	439.0	449.4	463.5	471.9	478.5	493.6	508.6	524.6	539.6
67.5°	375.1	378.9	385.4	397.7	413.6	417.4	427.7	442.8	455.9	470.0	484.2
70°	322.5	325.3	333.7	346.0	359.1	363.8	373.2	387.3	401.4	417.4	432.4
72.5°	272.6	274.5	283.9	293.3	306.5	314.9	320.6	332.8	348.8	365.7	379.8
75°	219.0	222.8	230.3	240.7	253.8	260.4	267.9	281.1	296.1	311.2	326.2
77.5°	172.0	172.0	179.6	190.8	202.1	209.6	216.2	230.3	245.4	258.5	271.7
80°	120.3	125.0	130.7	141.0	153.2	161.7	165.5	178.6	193.7	206.8	221.9
82.5°	78.0	80.8	87.4	97.8	109.1	113.8	120.3	133.5	147.6	162.6	174.9
85°	39.5	43.2	49.8	59.2	70.5	76.1	81.8	95.9	107.2	120.3	133.5
87.5°	15.0	16.9	23.5	32.9	43.2	48.9	53.6	65.8	77.1	90.2	103.4
90°	0.0	3.8	10.3	18.8	29.1	33.8	39.5	50.8	61.1	73.3	85.5
92.5°	0.0	2.8	8.5	16.9	26.3	32.0	36.7	47.0	57.3	68.6	77.1
95°	0.0	2.8	8.5	16.9	26.3	31.0	35.7	46.1	56.4	65.8	72.4
97.5°	0.0	1.9	8.5	16.9	25.4	30.1	34.8	45.1	54.5	63.0	70.5
100°	0.0	1.9	7.5	16.0	24.4	29.1	34.8	44.2	51.7	60.2	68.6
102.5°	0.0	1.9	7.5	15.0	24.4	29.1	33.8	42.3	49.8	58.3	65.8
105°	0.0	1.9	6.6	15.0	23.5	28.2	32.0	40.4	48.9	56.4	63.0
107.5°	0.0	1.9	6.6	14.1	22.6	26.3	31.0	39.5	47.0	53.6	60.2
110°	0.0	1.9	6.6	13.2	21.6	26.3	30.1	38.5	45.1	51.7	57.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.9	5.6	12.2	21.6	25.4	29.1	36.7	44.2	49.8	55.5
115°	0.0	0.9	5.6	12.2	20.7	24.4	28.2	35.7	42.3	48.9	53.6
117.5°	0.0	0.9	5.6	12.2	19.7	23.5	28.2	34.8	41.4	47.9	52.6
120°	0.0	0.9	4.7	11.3	18.8	22.6	27.3	34.8	41.4	47.0	51.7
122.5°	0.0	0.9	4.7	11.3	17.9	21.6	26.3	33.8	40.4	47.0	51.7
125°	0.0	0.9	4.7	10.3	17.9	20.7	25.4	32.9	40.4	46.1	51.7
127.5°	0.0	0.9	3.8	10.3	16.9	20.7	24.4	32.0	38.5	45.1	50.8
130°	0.0	0.9	3.8	9.4	16.0	19.7	23.5	30.1	37.6	44.2	49.8
132.5°	0.0	0.9	3.8	8.5	15.0	18.8	21.6	28.2	34.8	42.3	47.9
135°	0.0	0.9	2.8	7.5	14.1	16.9	20.7	27.3	32.9	39.5	45.1
137.5°	0.0	0.9	2.8	7.5	13.2	16.0	19.7	25.4	31.0	36.7	42.3
140°	0.0	0.0	1.9	6.6	11.3	14.1	17.9	23.5	29.1	34.8	39.5
142.5°	0.9	0.0	1.9	5.6	10.3	13.2	16.0	21.6	27.3	32.0	36.7
145°	0.9	0.0	0.9	4.7	8.5	11.3	13.2	18.8	24.4	29.1	32.9
147.5°	0.9	0.0	0.9	3.8	7.5	9.4	11.3	16.0	20.7	25.4	30.1
150°	0.9	0.0	0.9	2.8	5.6	7.5	9.4	13.2	17.9	22.6	26.3
152.5°	0.9	0.9	0.9	1.9	4.7	5.6	7.5	11.3	15.0	18.8	21.6
155°	0.9	0.9	0.9	0.9	2.8	4.7	5.6	8.5	12.2	15.0	17.9
157.5°	0.9	0.9	0.0	0.9	1.9	2.8	3.8	6.6	9.4	11.3	14.1
160°	0.9	0.9	0.0	0.9	1.9	1.9	2.8	4.7	6.6	8.5	10.3
162.5°	0.9	0.9	0.0	0.9	0.9	0.9	1.9	2.8	4.7	5.6	7.5
165°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	1.9	2.8	3.8	4.7
167.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	1.9	2.8
170°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
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°	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1	1567.1
2.5°	1559.6	1558.7	1558.7	1557.7	1558.7	1557.7	1557.7	1558.7	1557.7	1556.8
5°	1510.7	1511.7	1512.6	1510.7	1511.7	1510.7	1510.7	1509.8	1510.7	1509.8
7.5°	1444.0	1446.8	1448.7	1447.8	1450.6	1449.6	1451.5	1453.4	1454.3	1454.3
10°	1378.2	1380.1	1382.9	1386.6	1388.5	1390.4	1393.2	1397.0	1397.9	1398.9
12.5°	1325.5	1329.3	1330.2	1332.1	1334.0	1333.1	1339.6	1342.5	1347.2	1346.2
15°	1281.4	1287.0	1288.9	1294.5	1295.5	1297.3	1303.0	1298.3	1297.3	1294.5
17.5°	1246.6	1252.2	1253.2	1253.2	1254.1	1256.9	1262.6	1263.5	1265.4	1266.3
20°	1212.7	1216.5	1220.2	1223.1	1224.9	1225.9	1228.7	1224.9	1225.9	1226.8
22.5°	1179.8	1183.6	1189.2	1192.0	1195.8	1198.6	1198.6	1197.7	1195.8	1201.4
25°	1152.6	1155.4	1161.0	1161.0	1162.9	1165.7	1162.0	1164.8	1162.9	1161.0
27.5°	1119.7	1127.2	1129.1	1130.9	1132.8	1131.9	1131.9	1130.9	1130.9	1130.0
30°	1089.6	1092.4	1098.0	1099.0	1100.9	1102.7	1102.7	1104.6	1099.0	1099.9
32.5°	1058.6	1062.3	1068.9	1070.8	1071.7	1071.7	1068.9	1063.3	1064.2	1063.3
35°	1021.9	1030.3	1036.9	1036.9	1036.0	1036.9	1035.0	1034.1	1031.3	1030.3
37.5°	988.0	995.6	1003.1	1005.9	1005.0	1006.8	1004.0	1002.1	1002.1	1003.1
40°	959.8	965.5	973.0	978.6	978.6	980.5	980.5	980.5	982.4	981.5
42.5°	931.6	942.0	951.4	960.8	963.6	963.6	962.7	963.6	965.5	966.4
45°	908.1	919.4	928.8	936.3	939.2	939.2	941.0	943.9	942.9	943.9
47.5°	879.0	885.6	895.9	901.6	903.4	906.3	909.1	909.1	911.0	913.8
50°	838.6	847.0	855.5	864.9	867.7	867.7	872.4	875.2	876.2	878.1
52.5°	795.3	807.5	815.1	822.6	824.5	826.3	829.2	831.0	832.0	834.8
55°	750.2	763.4	769.0	777.5	781.2	785.9	783.1	790.6	791.6	793.4
57.5°	707.0	716.4	726.7	731.4	731.4	735.2	741.7	743.6	747.4	748.3
60°	653.4	664.6	674.1	675.9	679.7	680.6	685.3	690.0	694.7	697.6
62.5°	600.7	611.1	619.5	622.3	624.2	626.1	631.7	636.4	641.1	640.2
65°	548.1	558.4	565.0	565.9	565.9	571.6	575.3	576.3	582.9	582.9
67.5°	496.4	506.7	510.5	516.1	517.1	516.1	518.9	523.6	528.3	524.6
70°	443.7	452.2	458.8	466.3	464.4	464.4	466.3	470.0	471.9	474.7
72.5°	390.1	399.5	407.1	412.7	414.6	417.4	418.3	420.2	421.2	423.0
75°	338.4	346.9	357.2	364.8	365.7	368.5	371.3	373.2	373.2	376.0
77.5°	285.8	299.0	306.5	315.9	315.9	319.6	328.1	330.0	335.6	337.5
80°	235.0	246.3	259.5	267.9	272.6	277.3	278.3	278.3	281.1	283.9
82.5°	189.0	200.2	215.3	221.9	224.7	225.6	233.1	236.0	239.7	241.6
85°	148.5	163.6	170.2	176.7	179.6	181.4	188.0	192.7	199.3	202.1
87.5°	118.5	125.0	131.6	138.2	141.0	143.8	152.3	158.9	170.2	175.8
90°	94.0	99.7	106.2	114.7	117.5	122.2	130.7	140.1	153.2	160.8
92.5°	83.7	90.2	96.8	105.3	110.0	113.8	123.2	135.4	152.3	160.8
95°	79.9	87.4	94.9	101.5	105.3	110.0	120.3	134.4	147.6	152.3
97.5°	79.0	85.5	91.2	98.7	102.5	107.2	117.5	126.0	131.6	134.4
100°	75.2	81.8	88.4	94.9	99.7	102.5	109.1	115.6	119.4	121.3
102.5°	72.4	78.0	84.6	90.2	93.1	95.9	101.5	106.2	108.1	108.1
105°	69.6	74.3	79.9	83.7	86.5	88.4	91.2	92.1	92.1	92.1
107.5°	65.8	70.5	74.3	77.1	78.0	79.0	79.0	79.0	78.0	77.1
110°	62.0	66.7	68.6	69.6	69.6	69.6	69.6	69.6	69.6	68.6





TEST NUMBER: P241329

CATALOG NUMBER: FVS8M-2-LD4-30-2HI-P125-UNV-EDC1

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	59.2	62.0	63.9	64.9	63.9	64.9	64.9	65.8	65.8	65.8
115°	57.3	60.2	61.1	62.0	63.0	63.0	64.9	65.8	66.7	66.7
117.5°	56.4	59.2	61.1	63.9	63.9	64.9	66.7	68.6	69.6	69.6
120°	56.4	59.2	63.0	65.8	66.7	67.7	69.6	71.4	72.4	72.4
122.5°	56.4	60.2	63.9	66.7	68.6	69.6	71.4	73.3	74.3	75.2
125°	56.4	60.2	64.9	67.7	68.6	70.5	72.4	74.3	75.2	76.1
127.5°	55.5	60.2	63.9	67.7	68.6	69.6	72.4	74.3	75.2	76.1
130°	54.5	59.2	63.0	65.8	67.7	68.6	71.4	73.3	74.3	75.2
132.5°	52.6	57.3	61.1	64.9	65.8	67.7	70.5	72.4	73.3	74.3
135°	50.8	55.5	59.2	63.0	63.9	65.8	68.6	70.5	72.4	72.4
137.5°	47.9	52.6	56.4	60.2	62.0	63.0	65.8	68.6	69.6	70.5
140°	45.1	48.9	53.6	56.4	58.3	60.2	62.0	64.9	65.8	66.7
142.5°	41.4	45.1	48.9	52.6	54.5	55.5	58.3	60.2	62.0	62.0
145°	37.6	40.4	44.2	47.9	48.9	49.8	52.6	54.5	55.5	56.4
147.5°	33.8	36.7	40.4	42.3	43.2	45.1	47.0	48.9	48.9	49.8
150°	29.1	32.0	34.8	36.7	38.5	39.5	41.4	42.3	43.2	43.2
152.5°	25.4	27.3	30.1	32.0	32.9	33.8	34.8	36.7	36.7	37.6
155°	20.7	23.5	25.4	27.3	28.2	29.1	30.1	31.0	31.0	32.0
157.5°	16.9	18.8	20.7	22.6	23.5	23.5	25.4	25.4	26.3	25.4
160°	13.2	15.0	16.9	17.9	18.8	18.8	19.7	20.7	20.7	20.7
162.5°	9.4	11.3	12.2	14.1	14.1	14.1	15.0	16.0	16.0	16.0
165°	6.6	7.5	8.5	9.4	10.3	10.3	10.3	11.3	11.3	11.3
167.5°	3.8	3.8	4.7	5.6	5.6	6.6	6.6	6.6	7.5	7.5
170°	0.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	3.8	3.8
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)