

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: P241481

Luminaire Tested: **FVS8M-3-LD4-30-3STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P241481  
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-LD4-30-3STD-PA187-UNV-EDC1  
Description: FAILSAFE FVS8M LED FIXTURE  
3FT LENGTH, 3-MODULE LED WITH PA187 LENS  
Light Source: (252) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

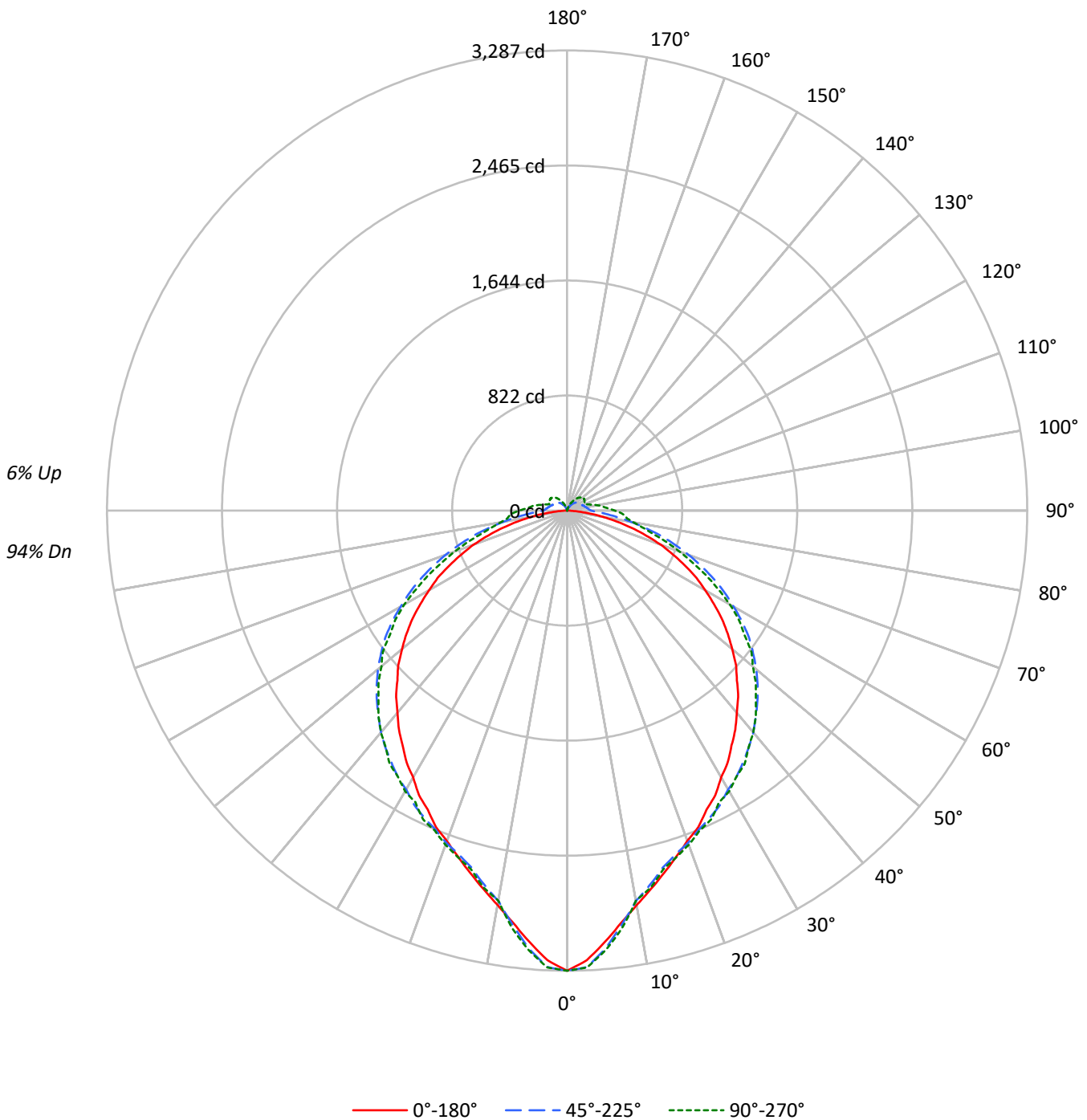
Lumens per Lamp: N/A  
Luminaire Lumens: 8885.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 2.85' x H: 0.15')  
CIE Type: Direct

Input Watts (W): 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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CATALOG NUMBER: FVS8M-3-LD4-30-3STD-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°	19194	19194	19194
5°	18050	18092	18122
10°	16811	16229	16137
15°	15973	15164	15121
20°	15320	14653	14586
25°	14834	14279	14194
30°	14410	13938	13813
35°	14094	13739	13606
40°	13775	13547	13255
45°	13474	13280	12839
50°	13179	12996	12394
55°	12800	12625	11896
60°	12216	11991	11279
65°	11539	11241	10205
70°	10616	10233	8993
75°	9002	9029	7701
80°	6857	7382	7063
85°	3456	5752	7742



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.6	3.3
10°-20°	751.9	8.5
20°-30°	1110.9	12.5
30°-40°	1355.0	15.3
40°-50°	1442.5	16.2
50°-60°	1356.0	15.3
60°-70°	1073.9	12.1
70°-80°	667.9	7.5
80°-90°	294.5	3.3
90°-100°	156.6	1.8
100°-110°	115.3	1.3
110°-120°	89.9	1.0
120°-130°	78.1	0.9
130°-140°	56.2	0.6
140°-150°	31.6	0.4
150°-160°	12.5	0.1
160°-170°	2.5	0.0
170°-180°	0.0	0.0
0°-30°	2152.5	24.2
0°-40°	3507.4	39.5
0°-60°	6305.9	71.0
0°-90°	8342.3	93.9
90°-120°	361.8	4.1
90°-150°	527.7	5.9
90°-180°	543.0	6.1
0°-180°	8885.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3287	3287	3287	3287	3287	
5°	3093	3115	3139	3157	3153	288
15°	2678	2665	2640	2642	2652	755
25°	2357	2389	2418	2424	2435	1090
35°	2048	2131	2192	2212	2210	1284
45°	1715	1819	1923	1921	1906	1327
55°	1349	1460	1587	1575	1545	1203
65°	927	1035	1155	1142	1096	918
75°	475	580	693	689	629	505
85°	82	174	278	335	414	107
90°	2	80	171	245	340	4
95°	1	67	151	218	268	1
105°	1	56	126	168	166	1
115°	1	49	108	134	137	1
125°	1	41	99	137	147	1
135°	2	30	78	116	132	1
145°	2	16	53	82	95	1
155°	2	6	26	46	53	1
165°	3	2	6	13	16	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241481

CATALOG NUMBER: FVS8M-3-LD4-30-3STD-PA187-UNV-EDC1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9
2.5°	3215.5	3221.8	3227.2	3230.4	3233.5	3242.2	3248.4	3249.2	3258.7	3265.7	3263.4
5°	3093.0	3098.5	3109.5	3115.0	3111.0	3115.0	3123.6	3126.7	3129.1	3132.2	3139.3
7.5°	2967.3	2964.2	2973.6	2971.3	2975.2	2972.8	2974.4	2973.6	2981.5	2983.0	2983.8
10°	2860.6	2863.7	2865.3	2859.0	2858.2	2860.6	2855.8	2851.1	2848.8	2837.0	2831.5
12.5°	2767.9	2767.9	2768.7	2756.9	2751.4	2747.5	2753.0	2751.4	2741.2	2731.0	2737.3
15°	2678.4	2680.7	2682.3	2673.7	2666.6	2665.0	2667.4	2651.7	2653.3	2658.7	2639.9
17.5°	2592.8	2602.2	2598.3	2588.1	2588.1	2588.1	2585.7	2582.6	2585.7	2580.2	2574.7
20°	2511.1	2513.5	2512.7	2517.4	2517.4	2516.6	2515.8	2517.4	2523.7	2511.1	2526.0
22.5°	2447.5	2449.9	2453.8	2445.2	2442.8	2439.7	2446.0	2464.0	2458.5	2467.9	2464.0
25°	2357.2	2358.0	2357.2	2365.9	2380.0	2388.6	2394.9	2396.5	2401.2	2415.3	2418.5
27.5°	2292.1	2292.8	2303.0	2307.0	2314.8	2324.2	2325.8	2338.4	2350.9	2356.4	2368.2
30°	2200.2	2211.2	2212.7	2233.2	2254.4	2261.4	2266.1	2279.5	2288.9	2303.8	2300.7
32.5°	2134.2	2140.5	2155.4	2168.0	2182.9	2188.4	2201.0	2221.4	2235.5	2250.4	2252.8
35°	2047.8	2051.0	2065.9	2087.1	2119.3	2131.1	2145.2	2149.1	2170.3	2186.8	2191.5
37.5°	1973.3	1978.8	1998.4	2017.2	2035.3	2051.8	2070.6	2091.0	2108.3	2121.7	2131.9
40°	1884.5	1888.5	1911.2	1935.6	1970.1	1986.6	1992.9	2023.5	2042.4	2054.1	2069.1
42.5°	1808.4	1812.3	1832.7	1857.0	1882.2	1905.7	1920.6	1949.7	1969.3	1983.5	1994.5
45°	1714.9	1723.6	1742.4	1775.4	1809.9	1818.6	1835.1	1863.3	1890.0	1914.4	1923.0
47.5°	1635.6	1638.8	1661.5	1684.3	1718.8	1737.7	1757.3	1781.7	1813.9	1830.3	1845.3
50°	1539.0	1549.2	1568.1	1597.9	1629.3	1646.6	1669.4	1700.8	1726.7	1749.5	1764.4
52.5°	1446.4	1451.9	1473.9	1505.3	1540.6	1561.0	1577.5	1609.7	1645.0	1665.4	1674.9
55°	1349.0	1355.3	1379.6	1410.3	1444.0	1460.5	1480.9	1516.3	1551.6	1570.4	1586.9
57.5°	1243.0	1256.3	1278.3	1311.3	1341.2	1357.6	1379.6	1419.7	1450.3	1470.7	1483.3
60°	1138.6	1148.0	1171.5	1200.6	1243.0	1261.8	1279.1	1314.5	1340.4	1363.1	1374.9
62.5°	1042.8	1047.5	1068.7	1096.2	1131.5	1148.8	1168.4	1206.9	1233.6	1253.2	1267.3
65°	926.6	939.1	958.8	984.7	1018.4	1034.9	1054.5	1093.0	1122.1	1145.6	1155.1
67.5°	818.2	821.3	846.5	876.3	910.1	925.8	942.3	979.2	1007.4	1026.3	1038.1
70°	709.1	710.6	737.3	759.3	796.2	813.5	827.6	859.8	892.8	908.5	921.8
72.5°	589.7	596.8	624.2	647.8	677.6	693.3	714.5	746.0	772.7	792.3	802.5
75°	475.1	481.3	501.0	532.4	563.0	580.3	600.7	630.5	652.5	676.9	692.6
77.5°	364.3	381.6	391.8	419.3	453.9	474.3	488.4	515.9	537.9	557.5	570.1
80°	263.0	267.0	288.2	313.3	346.3	359.6	375.3	405.2	427.2	449.1	463.3
82.5°	164.9	172.7	193.9	217.5	245.8	259.1	274.0	302.3	326.7	343.9	362.8
85°	81.7	89.5	109.1	131.1	161.8	174.3	188.5	214.4	237.1	256.0	278.0
87.5°	27.5	33.8	51.0	73.0	98.9	110.7	123.3	146.8	167.3	190.0	208.1
90°	1.6	7.9	23.6	44.8	68.3	80.1	91.9	110.7	131.9	151.5	171.2
92.5°	0.8	6.3	20.4	40.0	62.0	72.2	81.7	101.3	121.7	139.8	157.8
95°	0.8	5.5	18.8	36.9	56.5	66.7	77.0	96.6	116.2	134.3	150.8
97.5°	0.8	4.7	17.3	34.5	53.4	63.6	73.0	92.7	110.7	128.0	143.7
100°	0.8	4.7	16.5	33.0	51.0	60.5	69.9	88.7	106.0	121.7	136.6
102.5°	0.8	4.7	15.7	31.4	49.5	58.1	67.5	84.8	101.3	116.2	131.1
105°	0.8	3.9	14.9	30.6	47.9	56.5	64.4	81.7	96.6	111.5	125.6
107.5°	0.8	3.9	14.1	29.1	45.5	54.2	62.8	78.5	93.4	107.6	120.1
110°	0.8	3.1	13.3	28.3	44.0	52.6	60.5	76.2	90.3	103.6	114.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.8	3.1	12.6	26.7	42.4	51.0	58.9	73.8	87.9	99.7	110.7
115°	0.8	2.4	11.8	25.1	40.8	48.7	56.5	71.5	84.8	96.6	107.6
117.5°	0.8	2.4	11.0	24.3	39.3	47.1	54.2	69.1	82.4	95.0	105.2
120°	0.8	2.4	10.2	22.8	37.7	44.8	52.6	66.7	80.9	92.7	103.6
122.5°	0.8	1.6	9.4	21.2	35.3	42.4	50.3	64.4	77.7	90.3	102.1
125°	0.8	1.6	8.6	20.4	33.8	40.8	47.9	61.2	75.4	87.2	98.9
127.5°	1.6	1.6	7.9	18.8	31.4	38.5	44.8	58.9	71.5	83.2	95.0
130°	1.6	1.6	7.1	16.5	29.1	36.1	42.4	55.0	67.5	78.5	90.3
132.5°	1.6	1.6	6.3	14.9	26.7	33.0	39.3	51.0	62.8	73.8	84.8
135°	1.6	1.6	4.7	13.3	23.6	29.8	35.3	47.1	58.1	68.3	78.5
137.5°	1.6	1.6	3.9	11.0	20.4	25.9	31.4	42.4	53.4	62.8	73.0
140°	1.6	1.6	3.1	9.4	18.1	22.8	27.5	37.7	47.9	57.3	66.7
142.5°	2.4	1.6	3.1	7.9	14.9	19.6	23.6	32.2	41.6	51.0	59.7
145°	2.4	1.6	2.4	6.3	12.6	15.7	19.6	27.5	36.1	44.8	53.4
147.5°	2.4	2.4	2.4	4.7	10.2	13.3	16.5	23.6	30.6	38.5	45.5
150°	2.4	2.4	1.6	3.9	7.9	10.2	13.3	18.8	25.1	32.2	38.5
152.5°	2.4	2.4	1.6	3.1	6.3	7.9	10.2	15.7	20.4	25.9	32.2
155°	2.4	2.4	2.4	2.4	4.7	6.3	7.9	11.8	16.5	20.4	25.9
157.5°	2.4	2.4	2.4	2.4	3.1	4.7	5.5	8.6	11.8	15.7	19.6
160°	3.1	2.4	2.4	1.6	2.4	3.1	3.9	6.3	8.6	11.8	14.1
162.5°	3.1	3.1	2.4	2.4	1.6	2.4	3.1	3.9	5.5	7.9	9.4
165°	3.1	3.1	2.4	2.4	1.6	1.6	2.4	2.4	3.9	4.7	6.3
167.5°	3.1	3.1	2.4	2.4	1.6	1.6	1.6	1.6	2.4	2.4	3.1
170°	3.1	3.1	2.4	2.4	1.6	1.6	1.6	1.6	0.8	0.8	1.6
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°	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9	3286.9
2.5°	3268.1	3262.6	3265.7	3266.5	3268.9	3272.0	3264.2	3263.4	3265.7	3265.7
5°	3140.1	3147.2	3146.4	3152.7	3156.6	3153.4	3154.2	3156.6	3159.7	3152.7
7.5°	2977.5	2982.3	2990.9	2984.6	2992.5	2988.5	3000.3	2993.3	3006.6	3009.0
10°	2831.5	2832.3	2842.5	2846.4	2855.8	2841.7	2837.8	2834.6	2826.0	2829.9
12.5°	2724.7	2709.8	2698.0	2705.1	2716.9	2725.5	2741.2	2751.4	2756.1	2757.7
15°	2632.8	2647.8	2654.8	2654.0	2641.5	2637.5	2635.2	2638.3	2647.0	2652.5
17.5°	2592.0	2581.0	2570.8	2594.4	2608.5	2617.1	2617.9	2612.4	2609.3	2595.1
20°	2512.7	2534.7	2555.9	2537.8	2525.3	2521.3	2517.4	2530.8	2539.4	2540.2
22.5°	2479.7	2494.6	2465.6	2493.1	2507.2	2511.1	2501.7	2489.9	2481.3	2474.2
25°	2424.8	2418.5	2449.1	2431.8	2424.0	2416.1	2427.9	2433.4	2431.8	2435.0
27.5°	2357.2	2380.8	2358.8	2375.3	2391.8	2398.1	2379.2	2363.5	2351.7	2348.6
30°	2318.8	2301.5	2340.7	2330.5	2316.4	2309.3	2307.0	2312.5	2314.0	2315.6
32.5°	2256.7	2274.8	2257.5	2252.0	2267.7	2274.0	2277.1	2263.0	2259.1	2251.2
35°	2198.6	2202.5	2199.4	2223.0	2212.0	2206.5	2203.3	2208.8	2212.0	2210.4
37.5°	2153.9	2133.4	2164.8	2143.6	2152.3	2156.2	2160.1	2145.2	2140.5	2128.7
40°	2071.4	2087.9	2072.2	2089.5	2089.5	2079.3	2062.8	2059.6	2062.8	2068.3
42.5°	2003.9	2005.4	2027.4	2000.7	1994.5	1993.7	2003.9	2001.5	1989.7	1995.2
45°	1934.8	1941.8	1919.9	1915.1	1920.6	1915.9	1901.0	1898.7	1904.9	1905.7
47.5°	1850.8	1860.2	1837.4	1835.8	1828.8	1821.7	1830.3	1835.8	1828.8	1827.2
50°	1772.2	1754.2	1760.5	1748.7	1751.8	1757.3	1739.3	1728.3	1728.3	1731.4
52.5°	1678.8	1684.3	1671.7	1685.9	1674.1	1663.9	1664.7	1660.7	1660.0	1660.0
55°	1586.1	1592.4	1601.1	1576.7	1575.1	1573.6	1568.1	1555.5	1546.9	1545.3
57.5°	1491.9	1492.7	1495.1	1487.2	1490.3	1483.3	1459.7	1462.9	1460.5	1455.8
60°	1383.6	1393.0	1378.8	1373.3	1369.4	1367.1	1364.7	1352.1	1343.5	1343.5
62.5°	1271.3	1264.2	1267.3	1255.6	1260.3	1261.1	1238.3	1228.9	1218.7	1215.5
65°	1159.0	1149.6	1147.2	1148.8	1142.5	1124.4	1116.6	1111.1	1099.3	1096.2
67.5°	1040.4	1042.0	1037.3	1025.5	1016.1	1011.4	996.4	982.3	972.1	969.0
70°	921.8	920.3	922.6	908.5	912.4	903.0	884.2	867.7	863.0	853.5
72.5°	806.4	808.8	808.0	807.2	799.4	788.4	775.8	763.2	756.2	739.7
75°	697.3	706.7	699.6	693.3	688.6	682.4	675.3	650.9	637.6	629.0
77.5°	582.6	593.6	597.6	588.9	586.6	586.6	573.2	556.7	551.2	548.9
80°	471.1	483.7	493.1	493.9	493.1	489.2	486.1	483.7	481.3	479.0
82.5°	376.9	391.8	398.1	401.2	406.7	406.0	413.8	420.1	427.2	431.1
85°	291.3	304.7	318.0	329.0	335.3	343.1	352.6	368.3	392.6	413.8
87.5°	226.1	241.8	259.9	274.8	280.3	287.4	304.7	330.6	362.8	384.0
90°	189.2	206.5	223.8	238.7	245.0	254.4	274.0	297.6	325.9	340.0
92.5°	174.3	190.8	206.5	221.4	230.1	238.7	255.2	271.7	289.0	298.4
95°	166.5	181.4	196.3	210.4	217.5	225.4	236.4	250.5	262.3	267.8
97.5°	158.6	172.7	186.1	199.4	205.7	212.0	224.6	237.1	248.9	248.1
100°	151.5	164.9	176.7	188.5	193.9	199.4	209.7	215.1	218.3	219.1
102.5°	145.3	156.3	167.3	176.7	180.6	186.1	193.2	193.9	193.9	190.0
105°	137.4	148.4	157.8	164.1	168.0	170.4	172.0	171.2	168.0	166.5
107.5°	131.1	139.8	147.6	152.3	153.9	153.9	151.5	150.0	146.8	147.6
110°	124.8	132.7	138.2	140.6	141.3	141.3	139.8	137.4	135.8	135.8





TEST NUMBER: P241481

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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	120.1	127.2	131.9	134.3	135.1	135.1	135.1	134.3	133.5	132.7
115°	116.2	124.1	128.8	132.7	134.3	135.1	136.6	137.4	136.6	136.6
117.5°	115.4	122.5	129.6	134.3	136.6	138.2	140.6	142.1	141.3	140.6
120°	113.9	122.5	129.6	135.8	138.2	140.6	143.7	145.3	144.5	143.7
122.5°	113.1	121.7	129.6	136.6	139.0	141.3	145.3	146.8	146.1	146.1
125°	109.9	119.4	128.0	135.1	137.4	139.8	144.5	146.1	146.8	146.8
127.5°	106.0	115.4	124.1	131.1	134.3	137.4	141.3	143.7	145.3	145.3
130°	100.5	110.7	119.4	126.4	129.6	132.7	136.6	140.6	142.1	142.9
132.5°	95.0	104.4	113.1	120.9	124.1	127.2	131.9	135.1	137.4	138.2
135°	88.7	97.4	106.0	113.1	116.2	120.1	124.8	128.8	131.1	131.9
137.5°	81.7	90.3	98.2	105.2	108.4	111.5	117.8	121.7	124.1	124.8
140°	74.6	83.2	90.3	97.4	100.5	103.6	109.1	113.1	115.4	116.2
142.5°	68.3	75.4	82.4	88.7	91.9	95.0	99.7	103.6	105.2	106.8
145°	60.5	67.5	73.8	80.1	82.4	84.8	89.5	92.7	94.2	95.0
147.5°	53.4	59.7	66.0	70.7	73.0	75.4	79.3	81.7	84.0	84.0
150°	45.5	51.8	57.3	62.0	64.4	66.0	69.1	71.5	72.2	73.0
152.5°	37.7	43.2	48.7	52.6	54.2	56.5	58.9	61.2	62.0	62.8
155°	29.8	35.3	40.0	44.0	45.5	47.1	48.7	51.0	51.8	52.6
157.5°	23.6	27.5	31.4	35.3	36.1	37.7	39.3	40.8	41.6	41.6
160°	17.3	20.4	23.6	26.7	28.3	29.1	31.4	31.4	33.0	33.0
162.5°	11.8	14.1	16.5	18.8	19.6	21.2	22.8	23.6	24.3	24.3
165°	7.9	8.6	11.0	12.6	12.6	13.3	15.7	15.7	15.7	16.5
167.5°	3.9	4.7	5.5	7.1	7.1	7.9	8.6	9.4	9.4	9.4
170°	1.6	1.6	2.4	2.4	2.4	3.1	3.1	3.9	3.9	3.9
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)