

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: P241508

Luminaire Tested: **FVS8M-4-LD4-50-2STD-PA187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P241508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1711-410-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FVS8M-4-LD4-50-2STD-PA187-UNV-EDC1
Description: FAILSAFE FVS8M LED FIXTURE
4FT LENGTH, 2-MODULE LED WITH PA187 LENS
Light Source: (168) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

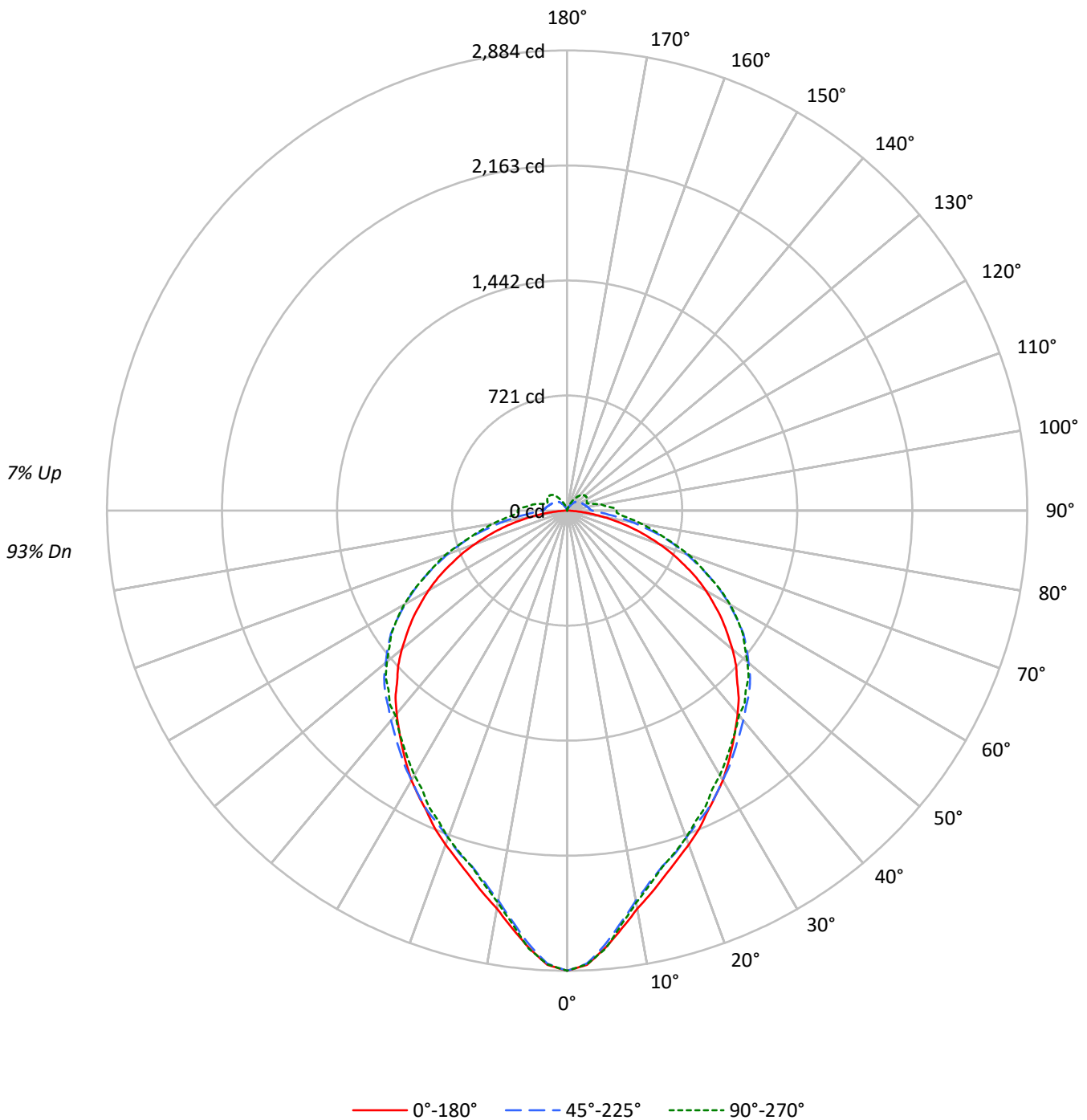
Lumens per Lamp: N/A
Luminaire Lumens: 7719.0 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 0.99 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.65' x L: 3.73' x H: 0.15')
CIE Type: Direct

Input Watts (W): 64.9
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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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	50	30	10	0		
RCR																										
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93					93			
1	106	101	97	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76					76			
2	96	88	80	74	93	85	79	73	80	75	70	76	72	68	72	68	65	63					63			
3	88	77	68	61	84	74	67	60	70	64	58	67	61	57	63	59	55	52					52			
4	80	68	59	52	77	66	58	51	62	55	50	59	53	48	56	51	47	44					44			
5	73	60	51	44	71	59	50	44	56	48	43	53	47	42	51	45	41	38					38			
6	68	54	45	39	65	53	44	38	50	43	37	48	42	36	46	40	36	33					33			
7	63	49	40	34	61	48	40	34	46	38	33	44	37	32	42	36	32	29					29			
8	58	45	36	30	56	44	36	30	42	35	29	40	34	29	38	33	28	26					26			
9	55	41	33	27	53	40	32	27	39	32	27	37	31	26	36	30	26	24					24			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21					21			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12889	12889	12889
5°	12298	12051	12123
10°	11415	10906	10887
15°	10846	10162	10078
20°	10445	9713	9584
25°	10079	9411	9145
30°	9851	9082	8740
35°	9580	8836	8438
40°	9392	8657	8214
45°	9157	8593	8170
50°	8984	8436	8075
55°	8730	8292	7912
60°	8408	7910	7580
65°	7933	7431	7011
70°	7266	6839	6557
75°	6305	6171	5771
80°	4891	5115	5327
85°	2562	4026	4872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	3.3
10°-20°	658.4	8.5
20°-30°	956.1	12.4
30°-40°	1141.5	14.8
40°-50°	1222.5	15.8
50°-60°	1161.8	15.1
60°-70°	934.8	12.1
70°-80°	598.5	7.8
80°-90°	263.1	3.4
90°-100°	146.9	1.9
100°-110°	110.9	1.4
110°-120°	88.6	1.1
120°-130°	78.4	1.0
130°-140°	57.6	0.7
140°-150°	31.7	0.4
150°-160°	12.0	0.2
160°-170°	2.4	0.0
170°-180°	0.0	0.0
0°-30°	1868.5	24.2
0°-40°	3010.1	39.0
0°-60°	5394.3	69.9
0°-90°	7190.7	93.2
90°-120°	346.4	4.5
90°-150°	514.0	6.7
90°-180°	528.0	6.8
0°-180°	7719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2750	2741	2730	2742	2756	256
15°	2369	2352	2306	2313	2310	668
25°	2081	2084	2075	2060	2050	962
35°	1804	1846	1832	1828	1791	1130
45°	1505	1567	1614	1614	1584	1166
55°	1183	1251	1349	1346	1343	1055
65°	813	892	985	997	984	805
75°	418	498	607	643	616	444
85°	72	145	247	309	340	95
90°	1	67	156	219	310	4
95°	1	61	140	207	265	1
105°	1	54	120	161	161	1
115°	1	48	106	133	136	1
125°	1	40	98	140	147	1
135°	2	29	78	122	139	1
145°	2	14	50	84	100	1
155°	2	5	24	44	52	1
165°	3	2	6	12	16	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P241508

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2849.1	2856.8	2850.8	2849.1	2848.3	2853.4	2852.5	2854.2	2853.4	2844.9	2842.3
5°	2750.5	2754.7	2749.6	2750.5	2742.8	2741.1	2744.5	2750.5	2744.5	2745.4	2730.1
7.5°	2639.9	2641.6	2632.3	2622.9	2621.2	2628.9	2627.2	2621.2	2616.1	2604.2	2601.6
10°	2532.7	2538.7	2526.8	2516.6	2512.3	2513.2	2510.6	2498.7	2497.9	2490.2	2482.6
12.5°	2451.1	2456.2	2443.4	2432.4	2428.1	2424.7	2429.8	2412.8	2409.4	2401.8	2387.3
15°	2368.6	2365.2	2366.9	2352.4	2352.4	2351.6	2347.3	2338.0	2329.5	2319.3	2306.5
17.5°	2293.8	2298.0	2289.5	2278.5	2277.6	2279.3	2278.5	2276.8	2269.9	2257.2	2252.9
20°	2227.4	2224.0	2214.7	2218.1	2216.4	2215.5	2217.2	2207.9	2197.7	2193.4	2181.5
22.5°	2160.2	2154.3	2148.3	2151.7	2151.7	2143.2	2146.6	2143.2	2135.6	2133.9	2122.8
25°	2081.1	2091.3	2086.2	2078.6	2081.1	2083.7	2091.3	2090.5	2087.1	2086.2	2075.2
27.5°	2015.7	2019.9	2013.1	2013.1	2029.3	2033.5	2032.7	2024.2	2025.0	2008.0	2013.1
30°	1951.9	1947.6	1951.9	1960.4	1962.1	1962.9	1961.2	1965.5	1957.8	1957.0	1950.2
32.5°	1877.9	1878.7	1884.7	1881.3	1895.7	1900.0	1902.5	1914.4	1912.7	1903.4	1894.9
35°	1803.9	1814.1	1809.8	1810.7	1846.4	1845.6	1847.3	1848.1	1836.2	1823.4	1831.9
37.5°	1731.6	1739.2	1736.7	1756.3	1766.5	1765.6	1764.8	1772.4	1778.4	1772.4	1772.4
40°	1662.7	1655.0	1666.1	1683.1	1689.1	1701.0	1715.4	1725.6	1724.8	1718.0	1717.1
42.5°	1592.1	1588.7	1596.4	1604.9	1632.1	1645.7	1654.2	1655.9	1647.4	1656.7	1660.1
45°	1505.4	1516.4	1509.6	1540.2	1559.8	1566.6	1571.7	1585.3	1598.1	1603.2	1614.2
47.5°	1435.6	1438.2	1439.9	1466.2	1479.0	1491.8	1501.1	1524.1	1542.8	1551.3	1555.5
50°	1352.3	1347.2	1363.3	1379.5	1408.4	1423.7	1436.5	1447.5	1464.5	1479.0	1484.1
52.5°	1265.5	1268.1	1278.3	1297.0	1331.9	1345.5	1350.6	1368.4	1388.0	1403.3	1416.9
55°	1183.0	1186.4	1192.4	1222.1	1240.9	1251.1	1268.1	1295.3	1317.4	1328.5	1348.9
57.5°	1091.2	1097.1	1108.2	1128.6	1153.3	1171.1	1184.7	1211.9	1234.9	1246.8	1260.4
60°	1004.4	999.3	1024.8	1038.4	1069.1	1088.6	1095.4	1117.5	1142.2	1160.9	1172.0
62.5°	913.4	911.7	925.3	950.0	976.4	987.4	996.8	1029.9	1047.8	1069.1	1083.5
65°	813.1	821.6	830.1	857.3	879.4	892.2	907.5	935.5	959.3	978.1	984.9
67.5°	718.7	723.8	742.5	761.2	784.1	795.2	814.8	840.3	864.1	880.3	887.1
70°	615.8	623.4	643.8	665.1	690.6	700.0	713.6	741.6	763.7	785.0	792.7
72.5°	516.2	522.2	543.5	561.3	591.1	606.4	618.3	643.8	663.4	682.9	700.8
75°	418.4	429.5	446.5	463.5	493.3	498.4	511.1	540.1	563.9	586.0	607.2
77.5°	326.6	333.4	343.6	372.5	390.4	402.3	414.2	442.3	469.5	485.6	502.6
80°	232.2	241.5	252.6	270.5	296.8	308.7	318.9	345.3	370.8	390.4	409.9
82.5°	148.8	152.2	167.5	184.6	212.6	219.4	229.6	256.0	279.0	301.9	321.5
85°	72.3	80.8	93.6	113.1	134.4	144.6	154.8	181.2	205.0	227.1	246.6
87.5°	23.8	28.9	42.5	59.5	80.8	92.7	102.1	125.9	148.0	170.9	191.4
90°	0.9	6.8	19.6	36.6	57.0	67.2	78.2	99.5	120.8	140.3	155.6
92.5°	0.9	5.1	17.0	34.0	53.6	63.8	74.0	94.4	114.0	129.3	144.6
95°	0.9	4.3	16.2	33.2	51.0	61.2	71.4	90.2	107.2	124.2	139.5
97.5°	0.9	4.3	15.3	31.5	49.3	59.5	68.0	85.9	102.9	119.1	135.2
100°	0.9	4.3	14.5	30.6	47.6	57.0	65.5	82.5	99.5	114.8	130.1
102.5°	0.9	3.4	14.5	29.8	45.9	54.4	62.9	79.9	96.1	110.6	125.0
105°	0.9	3.4	13.6	28.1	45.1	53.6	61.2	77.4	92.7	107.2	119.9
107.5°	0.9	2.6	12.8	27.2	43.4	51.9	60.4	75.7	90.2	103.8	115.7
110°	0.9	2.6	12.8	26.4	42.5	51.0	58.7	74.0	88.5	101.2	111.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.9	2.6	11.9	25.5	40.8	49.3	57.0	72.3	85.9	97.8	108.0
115°	0.9	1.7	11.1	24.7	40.0	47.6	55.3	70.6	84.2	95.3	105.5
117.5°	0.9	1.7	10.2	23.8	38.3	45.9	53.6	68.0	81.6	93.6	103.8
120°	0.9	1.7	9.4	22.1	36.6	44.2	51.9	66.3	79.9	91.0	102.1
122.5°	0.9	1.7	8.5	20.4	34.9	42.5	50.2	63.8	77.4	89.3	100.4
125°	0.9	0.9	7.7	19.6	33.2	40.0	47.6	61.2	74.8	86.7	97.8
127.5°	0.9	0.9	6.8	17.9	30.6	38.3	45.1	58.7	71.4	83.3	94.4
130°	0.9	0.9	6.0	16.2	28.9	35.7	41.7	55.3	68.0	79.1	90.2
132.5°	0.9	0.9	5.1	13.6	25.5	31.5	38.3	51.0	63.8	74.0	84.2
135°	1.7	0.9	3.4	11.9	23.0	28.9	34.0	45.9	57.8	68.0	78.2
137.5°	1.7	0.9	2.6	10.2	19.6	24.7	29.8	40.8	51.9	62.1	72.3
140°	1.7	1.7	2.6	7.7	16.2	21.3	26.4	35.7	45.9	55.3	64.6
142.5°	1.7	1.7	1.7	6.0	13.6	17.9	21.3	30.6	40.0	48.5	57.0
145°	1.7	1.7	1.7	5.1	11.1	14.5	17.9	25.5	34.0	41.7	50.2
147.5°	1.7	1.7	1.7	3.4	8.5	11.9	14.5	21.3	28.1	35.7	42.5
150°	1.7	1.7	1.7	2.6	6.8	9.4	11.9	17.9	23.8	29.8	35.7
152.5°	1.7	1.7	1.7	1.7	5.1	6.8	9.4	13.6	18.7	24.7	29.8
155°	1.7	1.7	1.7	1.7	3.4	5.1	6.8	11.1	15.3	19.6	23.8
157.5°	2.6	1.7	1.7	1.7	2.6	3.4	5.1	7.7	11.1	15.3	18.7
160°	2.6	1.7	1.7	1.7	1.7	2.6	3.4	6.0	8.5	11.1	13.6
162.5°	2.6	2.6	1.7	1.7	1.7	1.7	1.7	3.4	5.1	7.7	9.4
165°	2.6	2.6	1.7	1.7	1.7	1.7	1.7	1.7	2.6	4.3	6.0
167.5°	2.6	2.6	1.7	1.7	0.9	0.9	0.9	0.9	1.7	1.7	2.6
170°	2.6	2.6	1.7	1.7	1.7	0.9	0.9	0.9	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°	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0	2884.0
2.5°	2839.8	2844.0	2847.4	2845.7	2846.6	2853.4	2842.3	2846.6	2848.3	2845.7
5°	2731.8	2734.3	2742.8	2745.4	2742.0	2744.5	2745.4	2749.6	2756.4	2755.6
7.5°	2599.1	2605.9	2604.2	2610.1	2612.7	2614.4	2615.2	2616.1	2615.2	2615.2
10°	2475.8	2483.4	2487.7	2495.3	2492.8	2494.5	2490.2	2496.2	2491.9	2494.5
12.5°	2395.0	2395.8	2381.4	2388.2	2386.5	2388.2	2395.8	2389.0	2395.8	2399.2
15°	2304.0	2305.7	2315.0	2317.6	2313.3	2310.8	2315.0	2318.4	2316.7	2309.9
17.5°	2251.2	2248.7	2251.2	2254.6	2254.6	2257.2	2253.8	2258.0	2247.8	2246.1
20°	2190.0	2192.6	2199.4	2196.8	2185.8	2179.8	2179.8	2176.4	2174.7	2180.6
22.5°	2130.5	2133.0	2126.2	2126.2	2131.3	2128.8	2125.4	2116.9	2105.0	2105.8
25°	2076.9	2073.5	2079.4	2073.5	2059.9	2060.7	2052.2	2054.8	2052.2	2049.7
27.5°	2002.0	2014.8	2010.6	2009.7	2008.8	2015.7	2000.3	1993.5	1983.3	1968.9
30°	1950.2	1942.5	1951.9	1945.9	1940.8	1928.1	1923.0	1911.0	1913.6	1914.4
32.5°	1898.3	1897.4	1891.5	1871.1	1871.9	1871.1	1871.1	1863.4	1853.2	1853.2
35°	1824.3	1830.2	1815.8	1829.4	1827.7	1812.4	1801.3	1796.2	1796.2	1791.1
37.5°	1775.0	1761.4	1763.9	1756.3	1752.9	1756.3	1757.1	1745.2	1745.2	1734.1
40°	1719.7	1721.4	1711.2	1715.4	1721.4	1707.8	1703.5	1680.6	1672.9	1674.6
42.5°	1663.6	1670.4	1681.4	1673.8	1661.9	1652.5	1644.8	1647.4	1642.3	1644.8
45°	1617.6	1620.2	1622.7	1604.9	1614.2	1616.8	1604.0	1593.0	1590.4	1584.5
47.5°	1565.7	1576.0	1555.5	1560.6	1553.0	1541.1	1540.2	1539.4	1546.2	1541.9
50°	1495.2	1500.3	1499.4	1485.8	1483.2	1485.8	1496.0	1484.9	1476.4	1473.9
52.5°	1422.9	1420.3	1422.0	1426.3	1429.7	1425.4	1410.1	1402.5	1399.9	1404.2
55°	1358.2	1354.8	1348.0	1353.1	1346.3	1344.6	1345.5	1347.2	1346.3	1342.9
57.5°	1268.1	1274.0	1287.6	1263.8	1266.4	1273.2	1275.7	1265.5	1260.4	1263.0
60°	1176.2	1183.0	1181.3	1189.8	1188.1	1178.8	1177.9	1177.9	1180.5	1179.6
62.5°	1086.1	1092.0	1086.1	1091.2	1086.1	1086.1	1084.4	1089.5	1085.2	1087.8
65°	995.1	995.9	1005.3	999.3	996.8	1001.9	987.4	979.8	980.6	984.0
67.5°	897.3	904.9	906.6	908.3	903.2	899.0	890.5	890.5	895.6	894.7
70°	801.2	812.2	814.8	811.4	806.3	804.6	808.8	818.2	824.1	813.1
72.5°	709.3	722.9	724.6	722.1	728.9	733.1	726.3	713.6	705.1	707.6
75°	615.8	626.0	634.5	640.4	643.0	637.0	626.0	618.3	612.4	615.8
77.5°	521.3	534.1	542.6	542.6	543.5	546.0	543.5	543.5	540.9	541.8
80°	427.8	444.8	444.8	458.4	462.7	460.1	468.6	469.5	471.2	472.0
82.5°	345.3	357.2	364.9	376.8	384.4	385.3	393.8	395.5	398.9	402.3
85°	266.2	279.0	293.4	303.6	308.7	314.7	324.9	327.4	338.5	340.2
87.5°	205.0	218.6	233.0	247.5	253.4	256.8	266.2	278.1	297.7	309.6
90°	170.1	186.3	201.6	213.5	219.4	225.4	239.8	258.5	289.2	309.6
92.5°	161.6	176.9	188.8	202.4	210.9	218.6	239.0	264.5	291.7	301.9
95°	155.6	170.1	183.7	199.0	206.7	215.2	233.0	249.2	261.9	265.4
97.5°	148.8	162.4	176.1	190.5	198.2	204.1	216.0	224.5	232.2	234.7
100°	142.9	155.6	169.2	181.2	186.3	191.4	200.7	210.9	216.9	218.6
102.5°	136.9	148.8	159.9	169.2	174.3	178.6	186.3	189.7	189.7	188.8
105°	131.8	142.0	150.5	158.2	160.7	164.1	166.7	164.1	161.6	160.7
107.5°	125.9	134.4	141.2	146.3	148.0	148.8	148.0	145.4	143.7	142.9
110°	120.8	128.4	133.5	136.9	137.8	137.8	136.9	135.2	133.5	132.7



TEST NUMBER: P241508

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	116.5	123.3	128.4	131.0	131.8	132.7	134.4	133.5	132.7	132.7
115°	114.0	120.8	126.7	131.0	132.7	134.4	136.9	136.9	136.9	136.1
117.5°	112.3	120.8	127.6	132.7	136.1	138.6	142.0	142.9	141.2	140.3
120°	112.3	120.8	128.4	136.1	138.6	142.0	145.4	146.3	144.6	143.7
122.5°	110.6	120.8	129.3	136.9	141.2	144.6	148.0	148.0	147.1	146.3
125°	108.9	119.1	127.6	136.1	140.3	143.7	148.0	148.8	148.0	147.1
127.5°	105.5	115.7	125.0	133.5	136.9	140.3	145.4	148.0	148.0	147.1
130°	101.2	112.3	120.8	129.3	133.5	136.9	142.9	145.4	145.4	145.4
132.5°	95.3	106.3	114.8	124.2	128.4	132.7	138.6	141.2	142.9	142.9
135°	89.3	98.7	108.9	117.4	122.5	126.7	133.5	136.1	137.8	138.6
137.5°	82.5	91.0	100.4	109.7	114.8	119.1	126.7	129.3	131.8	132.7
140°	74.8	83.3	92.7	101.2	105.5	109.7	116.5	119.9	123.3	123.3
142.5°	66.3	75.7	84.2	91.9	95.3	99.5	105.5	108.9	111.4	112.3
145°	58.7	67.2	74.0	81.6	84.2	87.6	92.7	96.1	99.5	100.4
147.5°	51.0	58.7	65.5	71.4	74.0	76.5	79.9	83.3	85.9	86.7
150°	42.5	48.5	55.3	61.2	63.8	65.5	68.9	70.6	73.1	74.0
152.5°	34.9	40.8	45.9	51.9	53.6	55.3	57.8	60.4	61.2	62.1
155°	28.1	32.3	37.4	42.5	44.2	45.9	48.5	50.2	51.0	51.9
157.5°	22.1	25.5	28.9	33.2	35.7	37.4	39.1	40.8	41.7	42.5
160°	16.2	19.6	22.1	24.7	27.2	28.1	31.5	32.3	32.3	33.2
162.5°	11.9	13.6	16.2	17.9	18.7	20.4	23.0	23.0	24.7	23.8
165°	6.8	8.5	10.2	11.1	11.9	12.8	15.3	16.2	16.2	16.2
167.5°	3.4	4.3	5.1	6.0	6.0	6.8	7.7	9.4	9.4	9.4
170°	0.9	0.9	1.7	1.7	1.7	1.7	2.6	3.4	3.4	3.4
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)