

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: METALUX

Report Number: P236281

Luminaire Tested: **4SWLED-48HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26870)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SWLED-48HL-LC-UNV-L840-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

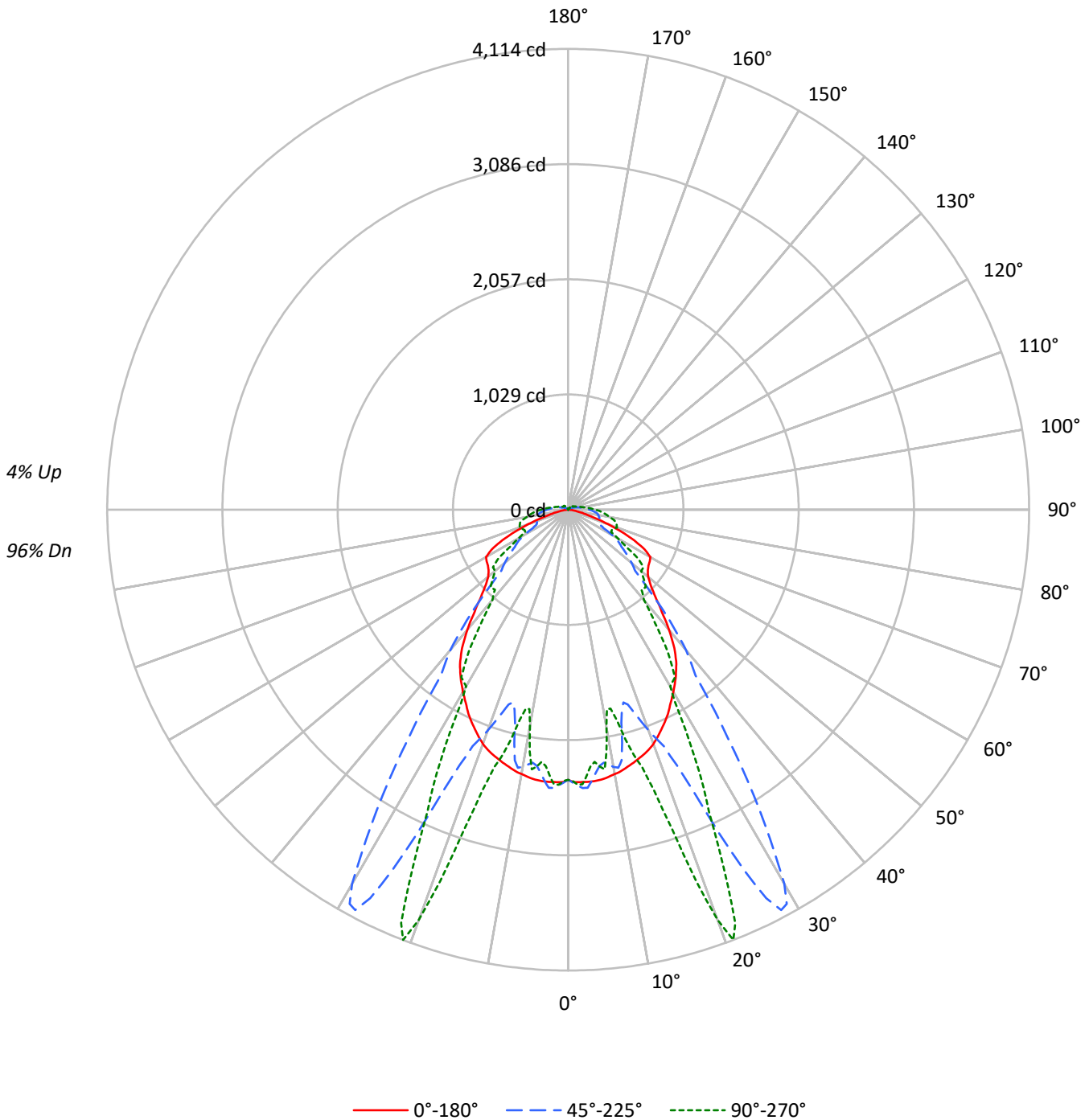
Lumens per Lamp: N/A
Luminaire Lumens: 6571.0 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 44.6
Input Voltage (V): 120
Input Current (A_{in}): 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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96				
1	108	103	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	50	62	55	49	59	53	49	57	52	48	46				
6	72	59	51	45	70	58	50	45	56	49	44	54	48	43	52	47	42	40				
7	67	54	46	40	65	53	45	40	51	44	39	49	43	39	48	42	38	36				
8	62	50	41	36	61	49	41	36	47	40	35	46	39	35	44	38	34	32				
9	58	46	38	32	57	45	37	32	43	37	32	42	36	31	41	35	31	29				
10	55	42	35	29	53	41	34	29	40	34	29	39	33	29	38	32	28	27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17300	17300	17300
5°	17482	17047	16004
10°	17349	16135	13379
15°	17101	12697	15260
20°	16767	14437	26065
25°	16075	22148	19917
30°	15247	27214	12316
35°	14376	17930	10654
40°	12715	12227	7430
45°	10764	8068	7156
50°	9954	6083	6493
55°	10385	5100	6132
60°	11425	4328	4374
65°	10230	3210	3975
70°	7237	3375	4694
75°	4164	3763	5022
80°	2627	4163	4819
85°	1424	4451	4739



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.7	3.4
10°-20°	634.8	9.7
20°-30°	1250.8	19.0
30°-40°	1290.5	19.6
40°-50°	1084.5	16.5
50°-60°	799.8	12.2
60°-70°	453.5	6.9
70°-80°	325.6	5.0
80°-90°	220.7	3.4
90°-100°	131.8	2.0
100°-110°	68.9	1.0
110°-120°	38.5	0.6
120°-130°	22.6	0.3
130°-140°	15.6	0.2
140°-150°	5.7	0.1
150°-160°	1.6	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2111.2	32.1
0°-40°	3401.7	51.8
0°-60°	5286.0	80.4
0°-90°	6285.8	95.7
90°-120°	239.3	3.6
90°-150°	283.1	4.3
90°-180°	285.0	4.3
0°-180°	6571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2411	2411	2411	2411	2411	
5°	2435	2470	2429	2315	2297	231
15°	2324	2224	1847	2080	2268	655
25°	2065	1843	3190	3581	2972	948
35°	1683	2073	2478	1680	1547	1041
45°	1099	2768	1034	934	979	866
55°	873	1553	583	735	762	789
65°	650	624	311	381	429	629
75°	171	251	288	414	444	204
85°	24	105	240	294	313	31
90°	2	77	191	236	243	2
95°	1	61	149	173	181	1
105°	1	32	78	93	100	1
115°	2	15	43	61	69	1
125°	2	6	25	40	49	1
135°	2	3	19	38	47	1
145°	2	2	7	14	18	1
155°	2	2	3	4	6	1
165°	2	2	2	1	2	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°	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9
1°	2431.3	2429.7	2419.9	2415.0	2414.2	2412.5	2413.3	2415.0	2419.0	2419.0	2437.8
2°	2433.7	2432.9	2426.4	2423.1	2423.1	2423.1	2424.8	2429.7	2432.9	2433.7	2462.3
3°	2434.6	2435.4	2431.3	2428.8	2434.6	2434.6	2437.0	2443.5	2455.0	2459.0	2488.4
4°	2436.2	2439.5	2437.0	2436.2	2447.6	2455.8	2460.7	2469.6	2477.0	2477.8	2489.2
5°	2434.6	2438.6	2438.6	2448.4	2463.9	2470.5	2474.5	2480.3	2468.8	2437.8	2428.8
6°	2432.9	2439.5	2443.5	2461.5	2475.4	2481.1	2481.9	2456.6	2426.4	2390.5	2361.1
7°	2428.8	2435.4	2448.4	2472.1	2481.1	2480.3	2466.4	2414.2	2361.1	2315.4	2302.3
8°	2419.0	2428.8	2455.0	2474.5	2468.0	2442.7	2416.6	2359.5	2309.7	2277.0	2279.5
9°	2407.6	2418.2	2455.0	2468.8	2437.0	2401.1	2368.4	2297.4	2265.6	2260.7	2304.8
10°	2396.2	2413.3	2455.8	2456.6	2387.2	2350.5	2305.6	2257.5	2256.6	2283.6	2331.7
11°	2386.4	2406.8	2450.9	2432.1	2344.8	2304.0	2258.3	2244.4	2276.2	2306.4	2347.2
12°	2372.5	2400.3	2440.3	2399.5	2290.1	2250.9	2227.3	2253.4	2291.7	2319.5	2288.5
13°	2356.2	2387.2	2419.9	2350.5	2245.2	2218.3	2227.3	2270.5	2295.0	2278.7	2140.7
14°	2339.1	2379.1	2395.4	2307.2	2204.4	2210.9	2239.5	2273.8	2277.9	2136.7	1963.6
15°	2324.4	2368.4	2369.3	2259.1	2190.5	2224.0	2246.0	2262.3	2197.9	1999.5	1846.9
16°	2307.2	2357.0	2340.7	2224.8	2203.6	2234.6	2246.8	2233.0	2046.1	1852.6	1789.8
17°	2290.1	2340.7	2304.8	2194.6	2219.1	2236.2	2235.4	2148.1	1933.4	1787.4	1817.6
18°	2270.5	2320.3	2272.1	2173.4	2225.6	2226.4	2207.7	2048.5	1820.8	1774.3	1902.4
19°	2248.5	2296.6	2237.0	2160.3	2217.5	2199.5	2150.5	1937.5	1777.6	1824.1	1998.7
20°	2224.8	2269.7	2205.2	2162.0	2197.1	2157.1	2082.8	1851.0	1775.1	1904.1	2097.5
21°	2195.4	2237.9	2175.0	2170.1	2159.5	2089.3	1996.3	1800.4	1814.3	1978.3	2187.3
22°	2163.6	2204.4	2151.4	2170.1	2102.4	2024.0	1918.8	1780.0	1881.2	2055.9	2276.2
23°	2129.3	2173.4	2129.3	2159.5	2032.2	1951.4	1855.9	1798.0	1929.4	2131.8	2476.2
24°	2098.3	2138.3	2114.6	2134.2	1969.4	1890.2	1816.7	1837.1	1974.2	2217.5	2755.3
25°	2064.8	2104.8	2101.6	2093.4	1912.2	1842.9	1808.6	1869.0	2033.8	2427.2	3189.5
26°	2028.1	2068.9	2089.3	2033.8	1869.0	1818.4	1820.0	1892.6	2113.8	2690.8	3580.4
27°	1988.9	2035.5	2065.7	1968.5	1838.8	1815.9	1843.7	1909.8	2299.1	3103.8	3892.2
28°	1949.8	1997.1	2032.2	1903.2	1820.8	1832.2	1853.5	1946.5	2535.8	3458.8	4048.1
29°	1912.2	1961.2	1994.7	1852.6	1818.4	1852.6	1851.8	2055.0	2903.8	3764.9	4023.6
30°	1878.8	1925.3	1951.4	1819.2	1831.4	1855.1	1851.0	2234.6	3218.1	3921.6	3854.6
32.5°	1784.1	1820.8	1821.6	1789.0	1852.6	1848.6	1994.7	2953.6	3743.6	3766.5	3178.9
35°	1682.9	1694.3	1710.6	1810.2	1866.5	2073.0	2560.2	3422.1	3711.0	3131.5	2477.8
37.5°	1557.2	1555.6	1665.7	1825.7	2143.2	2620.6	3009.9	3496.4	3178.1	2424.8	1865.7
40°	1398.9	1416.8	1657.6	1886.9	2591.3	2855.7	3049.9	3276.8	2463.9	1869.0	1634.7
42.5°	1237.3	1318.9	1657.6	2137.5	2678.6	2824.7	3022.2	2736.5	1951.4	1593.9	1336.8
45°	1099.3	1267.5	1669.8	2344.8	2592.9	2768.4	2799.4	2184.8	1617.6	1234.0	1034.1
47.5°	997.3	1219.3	1775.9	2264.0	2503.1	2545.5	2428.8	1823.3	1207.1	906.7	810.4
50°	930.4	1162.2	1821.6	2104.8	2317.0	2264.0	2091.8	1345.0	833.3	733.7	740.2
52.5°	895.3	1149.9	1696.8	1956.3	2082.0	1967.7	1649.4	910.0	671.7	657.0	661.1
55°	873.3	1113.2	1513.9	1753.1	1787.4	1553.1	1217.7	684.7	574.6	566.4	582.7
57.5°	862.7	1008.8	1333.6	1486.2	1403.8	1195.6	924.7	522.3	467.6	484.0	532.9
60°	846.3	899.4	1070.8	1168.7	1118.1	946.7	701.1	415.4	406.4	436.6	458.7
62.5°	769.6	772.1	749.2	923.1	914.9	768.0	554.2	355.8	340.3	349.3	354.2
65°	649.6	599.0	518.3	759.0	754.9	623.5	441.5	282.4	275.0	295.4	311.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	515.8	431.7	388.5	607.2	599.9	493.8	353.4	243.2	257.1	278.3	301.2
70°	379.5	317.5	306.1	478.3	472.5	395.8	296.3	225.3	248.1	270.1	293.8
72.5°	258.7	235.0	240.8	360.7	369.7	316.7	251.4	213.8	234.2	259.5	295.4
75°	170.6	172.2	185.3	265.2	283.2	251.4	212.2	199.1	221.2	251.4	288.1
77.5°	116.7	122.4	137.9	190.2	211.4	195.9	180.4	183.6	207.3	242.4	280.8
80°	76.7	82.4	98.8	134.7	156.7	155.9	155.1	170.6	197.5	235.0	272.6
82.5°	46.5	52.2	67.7	95.5	118.3	125.7	135.5	158.3	191.0	232.6	262.8
85°	24.5	30.2	44.9	68.6	92.2	105.3	119.2	148.5	187.7	223.6	239.9
87.5°	9.8	15.5	29.4	49.8	75.1	89.8	106.1	141.2	182.0	205.7	214.6
90°	1.6	7.3	18.8	37.5	62.0	76.7	94.7	135.5	168.9	179.6	191.0
92.5°	0.8	4.1	13.1	28.6	52.2	67.7	86.5	125.7	147.7	158.3	168.9
95°	0.8	2.4	9.8	22.9	44.9	61.2	79.2	110.2	126.5	137.1	149.4
97.5°	0.8	2.4	7.3	18.8	40.8	55.5	71.0	93.0	106.9	119.2	129.8
100°	0.8	1.6	6.5	16.3	35.9	47.3	58.8	75.9	88.1	101.2	111.0
102.5°	0.8	1.6	5.7	14.7	31.0	40.0	48.2	61.2	74.3	84.9	94.7
105°	0.8	1.6	4.9	13.1	25.3	31.8	38.4	50.6	62.0	71.8	78.3
107.5°	0.8	1.6	4.1	10.6	20.4	26.1	31.8	42.4	52.2	59.6	66.1
110°	0.8	0.8	3.3	9.0	17.1	22.0	26.1	35.1	43.3	50.6	56.3
112.5°	1.6	1.6	3.3	7.3	13.9	18.0	22.0	29.4	36.7	43.3	49.0
115°	1.6	1.6	2.4	5.7	11.4	14.7	18.0	24.5	31.0	37.5	43.3
117.5°	1.6	1.6	2.4	4.9	9.0	12.2	14.7	20.4	26.1	32.6	38.4
120°	1.6	1.6	1.6	4.1	8.2	9.8	12.2	17.1	22.9	28.6	33.5
122.5°	1.6	1.6	1.6	3.3	6.5	8.2	9.8	14.7	19.6	24.5	29.4
125°	1.6	1.6	1.6	2.4	4.9	6.5	8.2	12.2	16.3	21.2	25.3
127.5°	1.6	1.6	1.6	2.4	4.1	5.7	6.5	9.8	13.9	17.1	22.0
130°	1.6	1.6	1.6	1.6	3.3	4.1	5.7	8.2	11.4	15.5	19.6
132.5°	1.6	1.6	1.6	1.6	3.3	4.1	4.9	7.3	11.4	14.7	18.8
135°	1.6	1.6	1.6	1.6	2.4	3.3	4.9	7.3	10.6	14.7	18.8
137.5°	1.6	1.6	1.6	1.6	2.4	3.3	4.1	6.5	9.8	13.9	17.1
140°	1.6	1.6	1.6	1.6	1.6	2.4	3.3	5.7	8.2	10.6	13.9
142.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	4.1	5.7	8.2	10.6
145°	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.3	4.1	5.7	7.3
147.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	3.3	4.1	5.7
150°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	3.3	4.1
152.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3
155°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.3
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
160°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
162.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
165°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
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°	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9	2410.9
1°	2444.3	2441.1	2438.6	2435.4	2432.1	2431.3	2429.7	2428.8	2422.3	2423.1
2°	2468.0	2470.5	2468.8	2465.6	2468.0	2464.8	2463.1	2459.9	2457.4	2458.2
3°	2496.6	2495.8	2488.4	2479.4	2473.7	2473.7	2461.5	2456.6	2441.9	2455.0
4°	2471.3	2454.1	2426.4	2413.3	2401.1	2399.5	2384.8	2370.9	2363.5	2376.6
5°	2402.7	2377.4	2342.3	2328.5	2314.6	2316.2	2304.0	2295.0	2289.3	2297.4
6°	2334.2	2311.3	2286.8	2272.1	2266.4	2262.3	2260.7	2263.2	2264.8	2264.0
7°	2286.0	2281.1	2278.7	2285.2	2290.9	2290.9	2300.7	2308.9	2311.3	2309.7
8°	2295.0	2311.3	2321.9	2326.0	2326.8	2328.5	2344.0	2344.0	2339.1	2340.7
9°	2331.7	2343.1	2354.6	2339.9	2311.3	2305.6	2251.7	2219.9	2175.0	2188.1
10°	2360.3	2339.1	2250.9	2178.3	2129.3	2113.0	2031.4	1995.5	1948.9	1962.0
11°	2311.3	2197.1	2064.0	1973.4	1926.9	1900.0	1846.9	1824.9	1815.9	1813.5
12°	2129.3	1996.3	1877.1	1824.9	1803.7	1795.5	1789.8	1796.3	1811.0	1815.1
13°	1963.6	1853.5	1798.8	1802.9	1813.5	1826.5	1872.2	1899.2	1925.3	1926.1
14°	1829.8	1796.3	1840.4	1895.9	1927.7	1948.1	2011.8	2055.9	2104.0	2113.0
15°	1794.7	1850.2	1954.7	2039.5	2079.5	2122.8	2206.9	2242.8	2269.7	2268.1
16°	1855.1	1950.6	2095.9	2195.4	2236.2	2264.8	2318.7	2351.3	2383.1	2388.0
17°	1956.3	2102.4	2236.2	2312.9	2342.3	2375.0	2474.5	2543.1	2601.0	2619.8
18°	2062.4	2215.8	2321.9	2446.0	2523.5	2587.2	2725.9	2852.4	2974.0	2996.9
19°	2180.7	2314.6	2491.7	2704.7	2800.2	2943.0	3190.3	3344.6	3467.8	3507.8
20°	2258.3	2469.6	2744.7	3145.4	3280.1	3438.4	3675.1	3792.6	3877.5	3896.3
21°	2394.6	2741.4	3214.0	3609.8	3746.1	3834.2	3990.9	4065.2	4086.4	4114.2
22°	2620.6	3172.3	3658.0	3946.1	4037.5	4088.1	4105.2	4049.7	3999.9	3980.3
23°	3035.2	3596.7	3951.8	4111.7	4102.8	4040.7	3901.2	3769.8	3684.1	3648.2
24°	3485.7	3923.2	4098.7	3963.2	3885.7	3753.4	3575.5	3443.3	3351.9	3307.8
25°	3804.0	4084.8	3936.3	3680.0	3581.2	3444.1	3228.7	3102.2	3012.4	2971.6
26°	4042.4	4006.4	3662.0	3368.2	3252.3	3120.1	2930.8	2859.8	2793.7	2754.5
27°	4064.4	3773.0	3370.7	3046.7	2943.0	2849.2	2707.1	2605.1	2535.8	2499.0
28°	3887.3	3500.4	3060.5	2801.0	2716.9	2602.7	2441.9	2341.5	2292.5	2237.0
29°	3661.2	3187.9	2802.6	2532.5	2441.1	2326.0	2166.0	2033.8	2002.0	1967.7
30°	3357.6	2903.0	2546.4	2245.2	2157.9	2033.8	1911.4	1868.2	1846.9	1820.0
32.5°	2643.5	2187.3	1890.2	1775.9	1749.8	1738.4	1783.3	1790.6	1789.0	1774.3
35°	1978.3	1729.4	1718.8	1701.7	1679.6	1658.4	1616.8	1593.1	1572.7	1547.4
37.5°	1689.4	1620.0	1522.9	1438.9	1401.3	1372.8	1329.5	1305.8	1286.2	1271.6
40°	1480.5	1337.7	1240.5	1181.8	1161.4	1127.9	1101.0	1086.3	1071.6	1052.0
42.5°	1194.8	1067.5	990.8	949.2	936.9	923.9	934.5	951.6	959.8	968.8
45°	919.8	861.8	879.8	918.2	933.7	950.0	973.7	978.6	980.2	979.4
47.5°	801.5	843.1	864.3	876.5	874.1	880.6	900.2	913.3	921.4	914.1
50°	761.5	767.2	796.6	826.8	831.6	823.5	827.6	838.2	849.6	851.2
52.5°	688.8	713.3	736.2	756.6	774.5	792.5	821.9	836.5	845.5	845.5
55°	618.6	663.5	695.4	723.9	735.3	740.2	754.9	760.6	766.4	762.3
57.5°	574.6	595.8	617.0	612.9	603.9	590.9	599.0	608.8	612.9	610.5
60°	464.4	465.2	467.6	474.2	484.8	494.6	504.4	506.8	510.9	510.1
62.5°	367.3	375.4	388.5	409.7	415.4	415.4	425.2	432.6	435.0	431.7
65°	329.7	346.0	368.9	381.1	381.1	383.6	401.5	422.8	430.9	429.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	322.4	350.9	362.4	379.5	392.6	405.6	423.6	435.8	443.2	445.6
70°	327.3	348.5	371.3	395.0	405.6	417.0	438.3	455.4	461.9	462.8
72.5°	326.5	354.2	377.1	405.6	417.9	428.5	444.0	450.5	453.0	453.0
75°	324.0	351.8	383.6	404.0	413.8	424.4	433.4	438.3	442.3	444.0
77.5°	313.4	343.6	359.1	377.9	384.4	389.3	400.7	408.9	414.6	415.4
80°	300.3	314.2	325.6	341.1	346.0	353.4	364.8	369.7	373.8	373.8
82.5°	275.0	284.8	297.1	313.4	322.4	329.7	338.7	342.0	344.4	345.2
85°	248.1	257.9	273.4	287.3	293.8	300.3	308.5	313.4	315.0	313.4
87.5°	223.6	237.5	252.2	262.8	265.2	268.5	275.0	279.1	280.8	282.4
90°	201.6	215.5	226.9	235.9	235.9	239.1	242.4	243.2	241.6	243.2
92.5°	182.0	191.0	197.5	201.6	201.6	204.0	208.1	209.7	208.9	209.7
95°	158.3	164.9	168.1	170.6	173.0	176.3	179.6	180.4	180.4	181.2
97.5°	137.1	142.0	145.3	147.7	148.5	151.0	151.0	151.8	151.8	152.6
100°	118.3	123.2	124.1	123.2	124.1	124.9	125.7	127.3	128.1	129.0
102.5°	100.4	104.5	106.1	106.9	107.7	109.4	111.0	111.8	113.4	113.4
105°	83.2	88.1	91.4	93.0	93.0	94.7	96.3	97.9	98.8	99.6
107.5°	71.0	75.9	80.0	81.6	83.2	84.1	85.7	87.3	88.1	89.0
110°	61.2	66.1	71.0	74.3	75.1	76.7	78.3	80.0	80.8	81.6
112.5°	54.7	58.8	62.8	66.1	67.7	69.4	71.0	72.6	74.3	74.3
115°	48.2	53.0	56.3	59.6	61.2	62.0	64.5	66.9	67.7	68.6
117.5°	43.3	47.3	50.6	53.9	55.5	57.1	58.8	60.4	62.0	62.0
120°	38.4	42.4	45.7	48.2	49.8	50.6	53.0	54.7	55.5	56.3
122.5°	33.5	37.5	40.0	43.3	44.1	45.7	48.2	49.8	50.6	51.4
125°	29.4	32.6	35.9	39.2	40.0	41.6	44.9	46.5	48.2	49.0
127.5°	26.1	29.4	33.5	36.7	38.4	40.8	44.1	46.5	48.2	49.0
130°	23.7	28.6	32.6	36.7	39.2	40.8	44.9	48.2	49.8	49.8
132.5°	23.7	28.6	33.5	37.5	40.0	41.6	45.7	49.0	50.6	51.4
135°	22.9	26.9	31.8	35.9	38.4	40.0	43.3	45.7	47.3	47.3
137.5°	20.4	23.7	26.9	30.2	32.6	34.3	36.7	38.4	40.0	40.0
140°	16.3	18.8	21.2	23.7	25.3	26.9	29.4	30.2	31.8	31.8
142.5°	12.2	13.9	16.3	18.0	18.8	20.4	22.0	23.7	24.5	24.5
145°	9.0	10.6	11.4	13.1	13.9	14.7	16.3	17.1	18.0	18.0
147.5°	6.5	7.3	8.2	9.8	9.8	10.6	12.2	13.1	13.1	13.1
150°	4.9	5.7	6.5	6.5	7.3	7.3	9.0	9.8	9.8	9.8
152.5°	4.1	4.1	4.9	4.9	5.7	5.7	6.5	7.3	7.3	7.3
155°	3.3	3.3	3.3	3.3	4.1	4.1	4.9	4.9	5.7	5.7
157.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.3	3.3	4.1	4.1
160°	2.4	2.4	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4
162.5°	2.4	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6	1.6
165°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	1.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P236281

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)