

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: P236283

Luminaire Tested: **4SWLED-52HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236283
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-52HL-LC-UNV-L835-CD1-U
Description: METALUX SWLED LINEAR LUMINAIRE
4FT FIXTURE WITH 2 ROW LED, CLEAR LENS
Light Source: (224) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

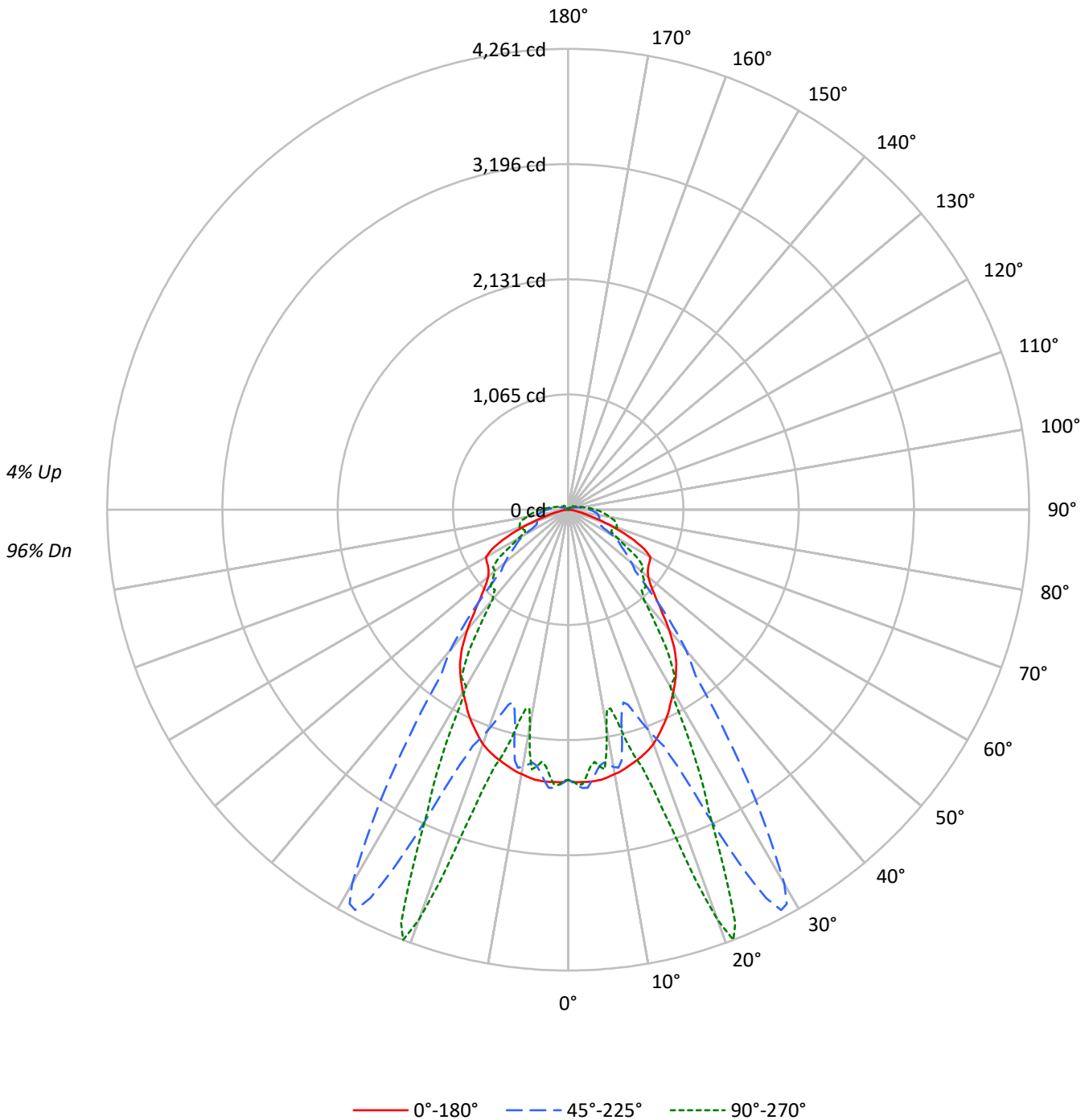
Lumens per Lamp: N/A
Luminaire Lumens: 6806.0 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 47.7
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	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°	17919	17919	17919
5°	18106	17657	16577
10°	17969	16712	13858
15°	17712	13152	15805
20°	17367	14953	26997
25°	16651	22940	20629
30°	15792	28187	12756
35°	14890	18571	11035
40°	13170	12665	7696
45°	11149	8356	7412
50°	10311	6301	6726
55°	10756	5283	6350
60°	11834	4483	4530
65°	10597	3325	4116
70°	7497	3496	4862
75°	4312	3898	5202
80°	2722	4312	4992
85°	1476	4610	4908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	3.4
10°-20°	657.5	9.7
20°-30°	1295.5	19.0
30°-40°	1336.7	19.6
40°-50°	1123.2	16.5
50°-60°	828.5	12.2
60°-70°	469.7	6.9
70°-80°	337.2	5.0
80°-90°	228.6	3.4
90°-100°	136.6	2.0
100°-110°	71.3	1.0
110°-120°	39.9	0.6
120°-130°	23.4	0.3
130°-140°	16.2	0.2
140°-150°	5.9	0.1
150°-160°	1.7	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2186.7	32.1
0°-40°	3523.4	51.8
0°-60°	5475.1	80.4
0°-90°	6510.6	95.7
90°-120°	247.8	3.6
90°-150°	293.3	4.3
90°-180°	295.0	4.3
0°-180°	6806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2497	2497	2497	2497	2497	
5°	2522	2559	2516	2397	2380	240
15°	2408	2304	1913	2154	2349	679
25°	2139	1909	3304	3709	3078	982
35°	1743	2147	2566	1740	1603	1078
45°	1139	2867	1071	967	1014	897
55°	904	1609	604	762	790	817
65°	673	646	322	395	445	652
75°	177	260	298	429	460	211
85°	25	109	248	304	325	32
90°	2	80	198	244	252	2
95°	1	63	155	179	188	1
105°	1	33	81	96	103	1
115°	2	15	45	63	71	2
125°	2	7	26	41	51	2
135°	2	3	19	40	49	1
145°	2	2	8	14	19	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°	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1
1°	2518.2	2516.5	2506.4	2501.3	2500.5	2498.8	2499.6	2501.3	2505.6	2505.6	2525.0
2°	2520.8	2519.9	2513.2	2509.8	2509.8	2509.8	2511.5	2516.5	2519.9	2520.8	2550.4
3°	2521.6	2522.5	2518.2	2515.7	2521.6	2521.6	2524.2	2530.9	2542.8	2547.0	2577.4
4°	2523.3	2526.7	2524.2	2523.3	2535.1	2543.6	2548.7	2558.0	2565.6	2566.4	2578.3
5°	2521.6	2525.8	2525.8	2536.0	2552.1	2558.8	2563.0	2569.0	2557.1	2525.0	2515.7
6°	2519.9	2526.7	2530.9	2549.5	2563.9	2569.8	2570.7	2544.4	2513.2	2476.0	2445.5
7°	2515.7	2522.5	2536.0	2560.5	2569.8	2569.0	2554.6	2500.5	2445.5	2398.2	2384.7
8°	2505.6	2515.7	2542.8	2563.0	2556.3	2530.1	2503.0	2443.9	2392.3	2358.5	2361.0
9°	2493.7	2504.7	2542.8	2557.1	2524.2	2487.0	2453.1	2379.6	2346.6	2341.6	2387.2
10°	2481.9	2499.6	2543.6	2544.4	2472.6	2434.6	2388.1	2338.2	2337.3	2365.2	2415.1
11°	2471.7	2492.9	2538.5	2519.1	2428.6	2386.4	2339.0	2324.7	2357.6	2388.9	2431.2
12°	2457.4	2486.1	2527.5	2485.3	2372.0	2331.4	2306.9	2334.0	2373.7	2402.4	2370.3
13°	2440.5	2472.6	2506.4	2434.6	2325.5	2297.6	2306.9	2351.7	2377.1	2360.2	2217.3
14°	2422.7	2464.1	2481.0	2389.7	2283.2	2290.0	2319.6	2355.1	2359.3	2213.1	2033.9
15°	2407.5	2453.1	2454.0	2339.9	2268.9	2303.5	2326.4	2343.3	2276.5	2071.1	1913.0
16°	2389.7	2441.3	2424.4	2304.4	2282.4	2314.5	2327.2	2312.8	2119.2	1918.9	1853.8
17°	2372.0	2424.4	2387.2	2273.1	2298.5	2316.2	2315.4	2224.9	2002.6	1851.3	1882.6
18°	2351.7	2403.3	2353.4	2251.1	2305.2	2306.1	2286.6	2121.8	1885.9	1837.7	1970.5
19°	2328.9	2378.8	2317.1	2237.6	2296.8	2278.2	2227.4	2006.8	1841.1	1889.3	2070.2
20°	2304.4	2350.9	2284.1	2239.3	2275.6	2234.2	2157.3	1917.2	1838.6	1972.2	2172.5
21°	2273.9	2317.9	2252.8	2247.7	2236.7	2164.0	2067.7	1864.8	1879.2	2049.1	2265.5
22°	2241.0	2283.2	2228.3	2247.7	2177.6	2096.4	1987.4	1843.7	1948.5	2129.4	2357.6
23°	2205.5	2251.1	2205.5	2236.7	2104.9	2021.2	1922.3	1862.3	1998.4	2208.0	2564.7
24°	2173.3	2214.8	2190.3	2210.5	2039.8	1957.8	1881.7	1902.8	2044.9	2296.8	2853.8
25°	2138.7	2180.1	2176.7	2168.3	1980.6	1908.8	1873.3	1935.8	2106.6	2514.0	3303.6
26°	2100.6	2142.9	2164.0	2106.6	1935.8	1883.4	1885.1	1960.3	2189.4	2787.1	3708.5
27°	2060.1	2108.3	2139.5	2038.9	1904.5	1880.9	1909.6	1978.1	2381.3	3214.8	4031.4
28°	2019.5	2068.5	2104.9	1971.3	1885.9	1897.8	1919.7	2016.1	2626.4	3582.5	4192.8
29°	1980.6	2031.3	2066.0	1918.9	1883.4	1918.9	1918.1	2128.5	3007.7	3899.5	4167.5
30°	1946.0	1994.1	2021.2	1884.2	1896.9	1921.4	1917.2	2314.5	3333.1	4061.8	3992.5
32.5°	1847.9	1885.9	1886.8	1853.0	1918.9	1914.7	2066.0	3059.3	3877.5	3901.2	3292.6
35°	1743.1	1754.9	1771.8	1874.9	1933.3	2147.1	2651.8	3544.5	3843.7	3243.5	2566.4
37.5°	1612.9	1611.2	1725.3	1891.0	2219.8	2714.4	3117.6	3621.4	3291.7	2511.5	1932.4
40°	1448.9	1467.5	1716.9	1954.4	2683.9	2957.8	3159.0	3394.0	2552.1	1935.8	1693.2
42.5°	1281.5	1366.1	1716.9	2213.9	2774.4	2925.7	3130.3	2834.4	2021.2	1650.9	1384.7
45°	1138.7	1312.8	1729.5	2428.6	2685.6	2867.4	2899.5	2263.0	1675.4	1278.1	1071.0
47.5°	1033.0	1262.9	1839.4	2344.9	2592.6	2636.6	2515.7	1888.5	1250.2	939.2	839.4
50°	963.7	1203.8	1886.8	2180.1	2399.9	2344.9	2166.6	1393.1	863.1	760.0	766.7
52.5°	927.3	1191.1	1757.4	2026.3	2156.4	2038.1	1708.4	942.5	695.7	680.5	684.7
55°	904.5	1153.0	1568.1	1815.8	1851.3	1608.7	1261.2	709.2	595.1	586.7	603.6
57.5°	893.5	1044.8	1381.3	1539.3	1454.0	1238.4	957.8	541.0	484.4	501.3	552.0
60°	876.6	931.6	1109.1	1210.5	1158.1	980.6	726.1	430.3	421.0	452.3	475.1
62.5°	797.1	799.7	776.0	956.1	947.6	795.5	574.0	368.6	352.5	361.8	366.9
65°	672.9	620.5	536.8	786.2	781.9	645.8	457.3	292.5	284.9	306.0	322.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	534.2	447.2	402.4	628.9	621.3	511.4	366.0	251.9	266.3	288.3	311.9
70°	393.1	328.8	317.0	495.4	489.4	410.0	306.9	233.3	257.0	279.8	304.3
72.5°	268.0	243.5	249.4	373.6	382.9	328.0	260.4	221.5	242.6	268.8	306.0
75°	176.7	178.4	191.9	274.7	293.3	260.4	219.8	206.3	229.1	260.4	298.4
77.5°	120.9	126.8	142.9	197.0	218.9	202.9	186.8	190.2	214.7	251.1	290.8
80°	79.5	85.4	102.3	139.5	162.3	161.5	160.6	176.7	204.6	243.5	282.3
82.5°	48.2	54.1	70.2	98.9	122.6	130.2	140.3	164.0	197.8	240.9	272.2
85°	25.4	31.3	46.5	71.0	95.5	109.0	123.4	153.9	194.4	231.6	248.5
87.5°	10.1	16.1	30.4	51.6	77.8	93.0	109.9	146.2	188.5	213.0	222.3
90°	1.7	7.6	19.4	38.9	64.2	79.5	98.1	140.3	175.0	186.0	197.8
92.5°	0.8	4.2	13.5	29.6	54.1	70.2	89.6	130.2	153.0	164.0	175.0
95°	0.8	2.5	10.1	23.7	46.5	63.4	82.0	114.1	131.0	142.0	154.7
97.5°	0.8	2.5	7.6	19.4	42.3	57.5	73.5	96.4	110.7	123.4	134.4
100°	0.8	1.7	6.8	16.9	37.2	49.0	60.9	78.6	91.3	104.8	115.0
102.5°	0.8	1.7	5.9	15.2	32.1	41.4	49.9	63.4	76.9	87.9	98.1
105°	0.8	1.7	5.1	13.5	26.2	33.0	39.7	52.4	64.2	74.4	81.2
107.5°	0.8	1.7	4.2	11.0	21.1	27.1	33.0	44.0	54.1	61.7	68.5
110°	0.8	0.8	3.4	9.3	17.8	22.8	27.1	36.3	44.8	52.4	58.3
112.5°	1.7	1.7	3.4	7.6	14.4	18.6	22.8	30.4	38.0	44.8	50.7
115°	1.7	1.7	2.5	5.9	11.8	15.2	18.6	25.4	32.1	38.9	44.8
117.5°	1.7	1.7	2.5	5.1	9.3	12.7	15.2	21.1	27.1	33.8	39.7
120°	1.7	1.7	1.7	4.2	8.5	10.1	12.7	17.8	23.7	29.6	34.7
122.5°	1.7	1.7	1.7	3.4	6.8	8.5	10.1	15.2	20.3	25.4	30.4
125°	1.7	1.7	1.7	2.5	5.1	6.8	8.5	12.7	16.9	22.0	26.2
127.5°	1.7	1.7	1.7	2.5	4.2	5.9	6.8	10.1	14.4	17.8	22.8
130°	1.7	1.7	1.7	1.7	3.4	4.2	5.9	8.5	11.8	16.1	20.3
132.5°	1.7	1.7	1.7	1.7	3.4	4.2	5.1	7.6	11.8	15.2	19.4
135°	1.7	1.7	1.7	1.7	2.5	3.4	5.1	7.6	11.0	15.2	19.4
137.5°	1.7	1.7	1.7	1.7	2.5	3.4	4.2	6.8	10.1	14.4	17.8
140°	1.7	1.7	1.7	1.7	1.7	2.5	3.4	5.9	8.5	11.0	14.4
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	4.2	5.9	8.5	11.0
145°	1.7	1.7	1.7	1.7	1.7	1.7	2.5	3.4	4.2	5.9	7.6
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	3.4	4.2	5.9
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.5	3.4	4.2
152.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4
155°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.4
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
160°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
162.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
165°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
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°	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1	2497.1
1°	2531.8	2528.4	2525.8	2522.5	2519.1	2518.2	2516.5	2515.7	2508.9	2509.8
2°	2556.3	2558.8	2557.1	2553.7	2556.3	2552.9	2551.2	2547.8	2545.3	2546.1
3°	2585.9	2585.0	2577.4	2568.1	2562.2	2562.2	2549.5	2544.4	2529.2	2542.8
4°	2559.7	2541.9	2513.2	2499.6	2487.0	2485.3	2470.1	2455.7	2448.1	2461.6
5°	2488.7	2462.4	2426.1	2411.7	2397.4	2399.0	2386.4	2377.1	2371.2	2379.6
6°	2417.6	2394.0	2368.6	2353.4	2347.5	2343.3	2341.6	2344.1	2345.8	2344.9
7°	2367.8	2362.7	2360.2	2366.9	2372.8	2372.8	2383.0	2391.4	2394.0	2392.3
8°	2377.1	2394.0	2405.0	2409.2	2410.0	2411.7	2427.8	2427.8	2422.7	2424.4
9°	2415.1	2426.9	2438.8	2423.6	2394.0	2388.1	2332.3	2299.3	2252.8	2266.3
10°	2444.7	2422.7	2331.4	2256.2	2205.5	2188.6	2104.0	2066.8	2018.6	2032.2
11°	2394.0	2275.6	2137.8	2044.0	1995.8	1967.9	1913.0	1890.2	1880.9	1878.3
12°	2205.5	2067.7	1944.3	1890.2	1868.2	1859.7	1853.8	1860.6	1875.8	1880.0
13°	2033.9	1919.7	1863.1	1867.3	1878.3	1891.9	1939.2	1967.1	1994.1	1995.0
14°	1895.2	1860.6	1906.2	1963.7	1996.7	2017.8	2083.7	2129.4	2179.3	2188.6
15°	1858.9	1916.4	2024.6	2112.5	2153.9	2198.7	2285.8	2323.0	2350.9	2349.2
16°	1921.4	2020.3	2170.8	2273.9	2316.2	2345.8	2401.6	2435.4	2468.4	2473.4
17°	2026.3	2177.6	2316.2	2395.7	2426.1	2459.9	2563.0	2634.1	2694.1	2713.5
18°	2136.2	2295.1	2405.0	2533.5	2613.8	2679.7	2823.4	2954.4	3080.4	3104.1
19°	2258.7	2397.4	2580.8	2801.4	2900.3	3048.3	3304.4	3464.2	3591.8	3633.2
20°	2339.0	2558.0	2842.8	3257.9	3397.4	3561.4	3806.5	3928.3	4016.2	4035.6
21°	2480.2	2839.5	3328.9	3738.9	3880.1	3971.4	4133.7	4210.6	4232.6	4261.3
22°	2714.4	3285.8	3788.8	4087.2	4181.9	4234.3	4252.0	4194.5	4143.0	4122.7
23°	3143.8	3725.4	4093.1	4258.8	4249.5	4185.2	4040.7	3904.6	3815.8	3778.6
24°	3610.4	4063.5	4245.3	4104.9	4024.6	3887.7	3703.4	3566.5	3471.8	3426.1
25°	3940.1	4230.9	4077.0	3811.6	3709.3	3567.3	3344.1	3213.1	3120.1	3077.8
26°	4186.9	4149.7	3793.0	3488.7	3368.6	3231.7	3035.6	2962.0	2893.6	2853.0
27°	4209.7	3908.0	3491.2	3155.6	3048.3	2951.0	2804.0	2698.3	2626.4	2588.4
28°	4026.3	3625.6	3170.0	2901.2	2814.1	2695.8	2529.2	2425.3	2374.5	2317.1
29°	3792.2	3301.9	2902.9	2623.1	2528.4	2409.2	2243.5	2106.6	2073.6	2038.1
30°	3477.7	3006.8	2637.4	2325.5	2235.1	2106.6	1979.8	1935.0	1913.0	1885.1
32.5°	2738.0	2265.5	1957.8	1839.4	1812.4	1800.6	1847.0	1854.7	1853.0	1837.7
35°	2049.1	1791.3	1780.3	1762.5	1739.7	1717.7	1674.6	1650.1	1629.0	1602.7
37.5°	1749.8	1678.0	1577.4	1490.3	1451.4	1421.8	1377.0	1352.5	1332.2	1317.0
40°	1533.4	1385.5	1284.9	1224.0	1202.9	1168.2	1140.4	1125.1	1109.9	1089.6
42.5°	1237.6	1105.7	1026.2	983.1	970.4	956.9	967.9	985.7	994.1	1003.4
45°	952.7	892.7	911.3	951.0	967.1	984.0	1008.5	1013.6	1015.2	1014.4
47.5°	830.1	873.2	895.2	907.9	905.3	912.1	932.4	945.9	954.4	946.8
50°	788.7	794.6	825.0	856.3	861.4	852.9	857.2	868.2	880.0	881.7
52.5°	713.5	738.8	762.5	783.6	802.2	820.8	851.2	866.5	875.8	875.8
55°	640.8	687.3	720.2	749.8	761.6	766.7	781.9	787.8	793.8	789.5
57.5°	595.1	617.1	639.1	634.8	625.5	612.0	620.5	630.6	634.8	632.3
60°	481.0	481.8	484.4	491.1	502.1	512.3	522.4	525.0	529.2	528.3
62.5°	380.4	388.9	402.4	424.4	430.3	430.3	440.4	448.0	450.6	447.2
65°	341.5	358.4	382.1	394.8	394.8	397.3	415.9	437.9	446.3	444.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	333.9	363.5	375.3	393.1	406.6	420.1	438.7	451.4	459.0	461.6
70°	339.0	361.0	384.6	409.1	420.1	432.0	453.9	471.7	478.5	479.3
72.5°	338.1	366.9	390.5	420.1	432.8	443.8	459.9	466.6	469.2	469.2
75°	335.6	364.3	397.3	418.4	428.6	439.6	448.9	453.9	458.2	459.9
77.5°	324.6	355.9	371.9	391.4	398.2	403.2	415.1	423.5	429.4	430.3
80°	311.1	325.5	337.3	353.3	358.4	366.0	377.9	382.9	387.2	387.2
82.5°	284.9	295.0	307.7	324.6	333.9	341.5	350.8	354.2	356.7	357.6
85°	257.0	267.1	283.2	297.6	304.3	311.1	319.5	324.6	326.3	324.6
87.5°	231.6	246.0	261.2	272.2	274.7	278.1	284.9	289.1	290.8	292.5
90°	208.8	223.2	235.0	244.3	244.3	247.7	251.1	251.9	250.2	251.9
92.5°	188.5	197.8	204.6	208.8	208.8	211.3	215.6	217.2	216.4	217.2
95°	164.0	170.8	174.1	176.7	179.2	182.6	186.0	186.8	186.8	187.7
97.5°	142.0	147.1	150.5	153.0	153.9	156.4	156.4	157.2	157.2	158.1
100°	122.6	127.6	128.5	127.6	128.5	129.3	130.2	131.9	132.7	133.6
102.5°	104.0	108.2	109.9	110.7	111.6	113.3	115.0	115.8	117.5	117.5
105°	86.2	91.3	94.7	96.4	96.4	98.1	99.7	101.4	102.3	103.1
107.5°	73.5	78.6	82.8	84.5	86.2	87.1	88.8	90.5	91.3	92.1
110°	63.4	68.5	73.5	76.9	77.8	79.5	81.2	82.8	83.7	84.5
112.5°	56.6	60.9	65.1	68.5	70.2	71.9	73.5	75.2	76.9	76.9
115°	49.9	54.9	58.3	61.7	63.4	64.2	66.8	69.3	70.2	71.0
117.5°	44.8	49.0	52.4	55.8	57.5	59.2	60.9	62.6	64.2	64.2
120°	39.7	44.0	47.3	49.9	51.6	52.4	54.9	56.6	57.5	58.3
122.5°	34.7	38.9	41.4	44.8	45.6	47.3	49.9	51.6	52.4	53.3
125°	30.4	33.8	37.2	40.6	41.4	43.1	46.5	48.2	49.9	50.7
127.5°	27.1	30.4	34.7	38.0	39.7	42.3	45.6	48.2	49.9	50.7
130°	24.5	29.6	33.8	38.0	40.6	42.3	46.5	49.9	51.6	51.6
132.5°	24.5	29.6	34.7	38.9	41.4	43.1	47.3	50.7	52.4	53.3
135°	23.7	27.9	33.0	37.2	39.7	41.4	44.8	47.3	49.0	49.0
137.5°	21.1	24.5	27.9	31.3	33.8	35.5	38.0	39.7	41.4	41.4
140°	16.9	19.4	22.0	24.5	26.2	27.9	30.4	31.3	33.0	33.0
142.5°	12.7	14.4	16.9	18.6	19.4	21.1	22.8	24.5	25.4	25.4
145°	9.3	11.0	11.8	13.5	14.4	15.2	16.9	17.8	18.6	18.6
147.5°	6.8	7.6	8.5	10.1	10.1	11.0	12.7	13.5	13.5	13.5
150°	5.1	5.9	6.8	6.8	7.6	7.6	9.3	10.1	10.1	10.1
152.5°	4.2	4.2	5.1	5.1	5.9	5.9	6.8	7.6	7.6	7.6
155°	3.4	3.4	3.4	3.4	4.2	4.2	5.1	5.1	5.9	5.9
157.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.4	3.4	4.2	4.2
160°	2.5	2.5	1.7	1.7	1.7	1.7	2.5	2.5	2.5	2.5
162.5°	2.5	1.7	1.7	1.7	0.8	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7
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: P236283

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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)