

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: P236289

Luminaire Tested: **4SWLED-60HL-LC-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236289
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-60HL-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

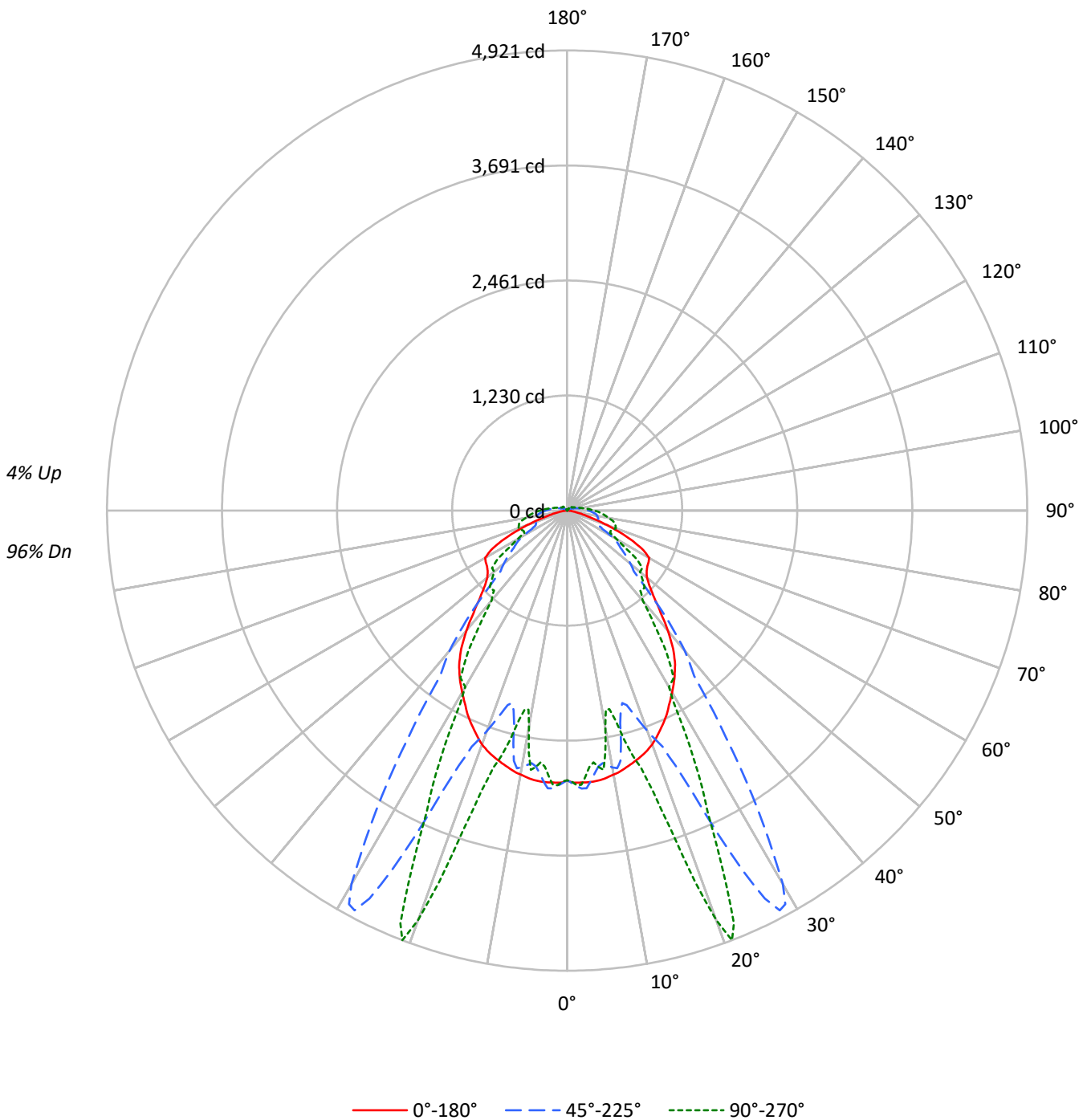
Lumens per Lamp: N/A
Luminaire Lumens: 7860.0 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

Input Watts (W): 57.2
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°	20694	20694	20694
5°	20910	20391	19144
10°	20752	19300	16004
15°	20455	15188	18253
20°	20056	17269	31178
25°	19229	26492	23824
30°	18237	32553	14731
35°	17195	21448	12745
40°	15209	14626	8888
45°	12876	9650	8560
50°	11907	7277	7767
55°	12422	6100	7334
60°	13667	5177	5233
65°	12238	3839	4754
70°	8658	4037	5614
75°	4979	4501	6007
80°	3144	4981	5764
85°	1703	5325	5669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	3.4
10°-20°	759.3	9.7
20°-30°	1496.1	19.0
30°-40°	1543.7	19.6
40°-50°	1297.2	16.5
50°-60°	956.8	12.2
60°-70°	542.5	6.9
70°-80°	389.4	5.0
80°-90°	264.0	3.4
90°-100°	157.7	2.0
100°-110°	82.4	1.0
110°-120°	46.1	0.6
120°-130°	27.0	0.3
130°-140°	18.7	0.2
140°-150°	6.8	0.1
150°-160°	1.9	0.0
160°-170°	0.5	0.0
170°-180°	0.0	0.0
0°-30°	2525.3	32.1
0°-40°	4069.0	51.8
0°-60°	6323.0	80.4
0°-90°	7518.9	95.7
90°-120°	286.2	3.6
90°-150°	338.7	4.3
90°-180°	341.0	4.3
0°-180°	7860.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2912	2955	2905	2769	2748	277
15°	2780	2660	2209	2488	2713	784
25°	2470	2204	3815	4284	3554	1134
35°	2013	2480	2964	2009	1851	1245
45°	1315	3311	1237	1117	1172	1036
55°	1045	1858	697	880	912	943
65°	777	746	372	456	514	753
75°	204	301	345	495	531	244
85°	29	126	287	351	375	37
90°	2	92	228	282	291	2
95°	1	73	179	207	217	1
105°	1	38	94	111	119	1
115°	2	18	52	73	82	2
125°	2	8	30	48	59	2
135°	2	4	22	46	57	2
145°	2	2	9	17	22	1
155°	3	3	4	5	7	1
165°	3	3	3	1	2	1
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P236289

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
1°	2908.2	2906.3	2894.6	2888.7	2887.7	2885.8	2886.7	2888.7	2893.6	2893.6	2916.0
2°	2911.2	2910.2	2902.4	2898.5	2898.5	2898.5	2900.4	2906.3	2910.2	2911.2	2945.3
3°	2912.1	2913.1	2908.2	2905.3	2912.1	2912.1	2915.1	2922.9	2936.5	2941.4	2976.6
4°	2914.1	2918.0	2915.1	2914.1	2927.7	2937.5	2943.4	2954.1	2962.9	2963.9	2977.5
5°	2912.1	2917.0	2917.0	2928.7	2947.3	2955.1	2960.0	2966.8	2953.1	2916.0	2905.3
6°	2910.2	2918.0	2922.9	2944.3	2960.9	2967.8	2968.8	2938.5	2902.4	2859.4	2824.3
7°	2905.3	2913.1	2928.7	2957.0	2967.8	2966.8	2950.2	2887.7	2824.3	2769.6	2754.0
8°	2893.6	2905.3	2936.5	2960.0	2952.2	2921.9	2890.7	2822.3	2762.8	2723.7	2726.6
9°	2879.9	2892.6	2936.5	2953.1	2915.1	2872.1	2833.1	2748.1	2710.0	2704.2	2756.9
10°	2866.2	2886.7	2937.5	2938.5	2855.5	2811.6	2757.9	2700.3	2699.3	2731.5	2789.1
11°	2854.5	2878.9	2931.7	2909.2	2804.7	2755.9	2701.3	2684.7	2722.7	2758.9	2807.7
12°	2837.9	2871.1	2919.0	2870.1	2739.3	2692.5	2664.2	2695.4	2741.3	2774.5	2737.4
13°	2818.4	2855.5	2894.6	2811.6	2685.6	2653.4	2664.2	2715.9	2745.2	2725.7	2560.7
14°	2797.9	2845.7	2865.3	2759.8	2636.8	2644.6	2678.8	2719.8	2724.7	2555.8	2348.8
15°	2780.3	2833.1	2834.0	2702.2	2620.2	2660.3	2686.6	2706.1	2629.0	2391.8	2209.2
16°	2759.8	2819.4	2799.9	2661.2	2635.9	2672.9	2687.6	2671.0	2447.4	2216.1	2140.9
17°	2739.3	2799.9	2756.9	2625.1	2654.4	2674.9	2673.9	2569.5	2312.7	2138.0	2174.1
18°	2715.9	2775.5	2717.9	2599.7	2662.2	2663.2	2640.7	2450.4	2178.0	2122.3	2275.6
19°	2689.5	2747.1	2675.9	2584.1	2652.4	2631.0	2572.4	2317.6	2126.3	2181.9	2390.8
20°	2661.2	2714.9	2637.8	2586.1	2628.0	2580.2	2491.4	2214.1	2123.3	2277.6	2508.9
21°	2626.1	2676.9	2601.7	2595.8	2583.1	2499.2	2387.9	2153.6	2170.2	2366.4	2616.3
22°	2588.0	2636.8	2573.4	2595.8	2514.8	2421.1	2295.1	2129.2	2250.2	2459.2	2722.7
23°	2547.0	2599.7	2547.0	2583.1	2430.8	2334.2	2220.0	2150.7	2307.8	2549.9	2961.9
24°	2509.9	2557.8	2529.4	2552.9	2355.7	2261.0	2173.1	2197.5	2361.5	2652.4	3295.8
25°	2469.9	2517.7	2513.8	2504.1	2287.3	2204.4	2163.4	2235.6	2432.8	2903.3	3815.2
26°	2426.0	2474.8	2499.2	2432.8	2235.6	2175.1	2177.0	2263.9	2528.5	3218.7	4282.8
27°	2379.1	2434.7	2470.9	2354.7	2199.5	2172.1	2205.3	2284.4	2750.1	3712.6	4655.7
28°	2332.2	2388.9	2430.8	2276.6	2178.0	2191.7	2217.0	2328.3	3033.2	4137.3	4842.2
29°	2287.3	2345.9	2385.9	2216.1	2175.1	2216.1	2215.1	2458.2	3473.5	4503.4	4812.9
30°	2247.3	2303.0	2334.2	2176.0	2190.7	2219.0	2214.1	2672.9	3849.3	4690.8	4610.8
32.5°	2134.1	2178.0	2179.0	2139.9	2216.1	2211.2	2385.9	3533.0	4478.0	4505.4	3802.5
35°	2013.0	2026.7	2046.2	2165.3	2232.7	2479.7	3062.5	4093.4	4439.0	3745.8	2963.9
37.5°	1862.7	1860.7	1992.5	2183.9	2563.6	3134.7	3600.4	4182.2	3801.5	2900.4	2231.7
40°	1673.3	1694.8	1982.7	2257.1	3099.6	3415.9	3648.2	3919.6	2947.3	2235.6	1955.4
42.5°	1480.0	1577.6	1982.7	2556.8	3204.0	3378.8	3615.0	3273.3	2334.2	1906.6	1599.1
45°	1315.0	1516.1	1997.4	2804.7	3101.5	3311.4	3348.5	2613.4	1934.9	1476.1	1236.9
47.5°	1193.0	1458.5	2124.3	2708.1	2994.1	3044.9	2905.3	2180.9	1443.9	1084.6	969.4
50°	1112.9	1390.2	2179.0	2517.7	2771.5	2708.1	2502.1	1608.8	996.7	877.6	885.5
52.5°	1070.9	1375.5	2029.6	2340.1	2490.4	2353.7	1973.0	1088.5	803.4	785.9	790.8
55°	1044.6	1331.6	1810.9	2097.0	2138.0	1857.8	1456.6	819.1	687.3	677.5	697.0
57.5°	1031.9	1206.6	1595.2	1777.7	1679.1	1430.2	1106.1	624.8	559.4	578.9	637.5
60°	1012.4	1075.8	1280.8	1398.0	1337.5	1132.4	838.6	496.9	486.2	522.3	548.6
62.5°	920.6	923.5	896.2	1104.1	1094.4	918.6	662.9	425.6	407.1	417.8	423.7
65°	777.1	716.6	619.9	907.9	903.0	745.8	528.1	337.8	329.0	353.4	371.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	617.0	516.4	464.7	726.3	717.5	590.6	422.7	290.9	307.5	332.9	360.2
70°	454.0	379.8	366.1	572.1	565.2	473.5	354.4	269.4	296.8	323.1	351.4
72.5°	309.5	281.2	288.0	431.5	442.2	378.8	300.7	255.8	280.2	310.4	353.4
75°	204.0	206.0	221.6	317.3	338.8	300.7	253.8	238.2	264.6	300.7	344.6
77.5°	139.6	146.4	165.0	227.5	252.8	234.3	215.7	219.7	248.0	289.9	335.8
80°	91.8	98.6	118.1	161.1	187.4	186.5	185.5	204.0	236.3	281.2	326.1
82.5°	55.6	62.5	81.0	114.2	141.6	150.3	162.1	189.4	228.4	278.2	314.3
85°	29.3	36.1	53.7	82.0	110.3	125.9	142.5	177.7	224.5	267.5	287.0
87.5°	11.7	18.5	35.1	59.6	89.8	107.4	126.9	168.9	217.7	246.0	256.8
90°	2.0	8.8	22.5	44.9	74.2	91.8	113.2	162.1	202.1	214.8	228.4
92.5°	1.0	4.9	15.6	34.2	62.5	81.0	103.5	150.3	176.7	189.4	202.1
95°	1.0	2.9	11.7	27.3	53.7	73.2	94.7	131.8	151.3	164.0	178.7
97.5°	1.0	2.9	8.8	22.5	48.8	66.4	84.9	111.3	127.9	142.5	155.2
100°	1.0	2.0	7.8	19.5	43.0	56.6	70.3	90.8	105.4	121.1	132.8
102.5°	1.0	2.0	6.8	17.6	37.1	47.8	57.6	73.2	88.8	101.5	113.2
105°	1.0	2.0	5.9	15.6	30.3	38.1	45.9	60.5	74.2	85.9	93.7
107.5°	1.0	2.0	4.9	12.7	24.4	31.2	38.1	50.8	62.5	71.3	79.1
110°	1.0	1.0	3.9	10.7	20.5	26.4	31.2	42.0	51.7	60.5	67.4
112.5°	2.0	2.0	3.9	8.8	16.6	21.5	26.4	35.1	43.9	51.7	58.6
115°	2.0	2.0	2.9	6.8	13.7	17.6	21.5	29.3	37.1	44.9	51.7
117.5°	2.0	2.0	2.9	5.9	10.7	14.6	17.6	24.4	31.2	39.0	45.9
120°	2.0	2.0	2.0	4.9	9.8	11.7	14.6	20.5	27.3	34.2	40.0
122.5°	2.0	2.0	2.0	3.9	7.8	9.8	11.7	17.6	23.4	29.3	35.1
125°	2.0	2.0	2.0	2.9	5.9	7.8	9.8	14.6	19.5	25.4	30.3
127.5°	2.0	2.0	2.0	2.9	4.9	6.8	7.8	11.7	16.6	20.5	26.4
130°	2.0	2.0	2.0	2.0	3.9	4.9	6.8	9.8	13.7	18.5	23.4
132.5°	2.0	2.0	2.0	2.0	3.9	4.9	5.9	8.8	13.7	17.6	22.5
135°	2.0	2.0	2.0	2.0	2.9	3.9	5.9	8.8	12.7	17.6	22.5
137.5°	2.0	2.0	2.0	2.0	2.9	3.9	4.9	7.8	11.7	16.6	20.5
140°	2.0	2.0	2.0	2.0	2.0	2.9	3.9	6.8	9.8	12.7	16.6
142.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.9	4.9	6.8	9.8	12.7
145°	2.0	2.0	2.0	2.0	2.0	2.0	2.9	3.9	4.9	6.8	8.8
147.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	3.9	4.9	6.8
150°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.9	2.9	3.9	4.9
152.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9
155°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9
157.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
160°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
162.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
165°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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



TEST NUMBER: P236289

CATALOG NUMBER: 4SWLED-60HL-LC-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8	2883.8
1°	2923.8	2919.9	2917.0	2913.1	2909.2	2908.2	2906.3	2905.3	2897.5	2898.5
2°	2952.2	2955.1	2953.1	2949.2	2952.2	2948.2	2946.3	2942.4	2939.5	2940.4
3°	2986.3	2985.3	2976.6	2965.8	2959.0	2959.0	2944.3	2938.5	2920.9	2936.5
4°	2956.1	2935.6	2902.4	2886.7	2872.1	2870.1	2852.6	2836.0	2827.2	2842.8
5°	2874.1	2843.8	2801.8	2785.2	2768.6	2770.6	2755.9	2745.2	2738.4	2748.1
6°	2792.1	2764.7	2735.4	2717.9	2711.0	2706.1	2704.2	2707.1	2709.1	2708.1
7°	2734.5	2728.6	2725.7	2733.5	2740.3	2740.3	2752.0	2761.8	2764.7	2762.8
8°	2745.2	2764.7	2777.4	2782.3	2783.3	2785.2	2803.8	2803.8	2797.9	2799.9
9°	2789.1	2802.8	2816.5	2798.9	2764.7	2757.9	2693.5	2655.4	2601.7	2617.3
10°	2823.3	2797.9	2692.5	2605.6	2547.0	2527.5	2429.9	2386.9	2331.3	2346.9
11°	2764.7	2628.0	2468.9	2360.6	2304.9	2272.7	2209.2	2182.9	2172.1	2169.2
12°	2547.0	2387.9	2245.4	2182.9	2157.5	2147.7	2140.9	2148.7	2166.3	2171.2
13°	2348.8	2217.0	2151.6	2156.5	2169.2	2184.8	2239.5	2271.7	2303.0	2303.9
14°	2188.7	2148.7	2201.4	2267.8	2305.9	2330.3	2406.4	2459.2	2516.8	2527.5
15°	2146.8	2213.1	2338.1	2439.6	2487.5	2539.2	2639.8	2682.7	2714.9	2713.0
16°	2219.0	2333.2	2507.0	2626.1	2674.9	2709.1	2773.5	2812.6	2850.6	2856.5
17°	2340.1	2514.8	2674.9	2766.7	2801.8	2840.9	2960.0	3042.0	3111.3	3133.7
18°	2467.0	2650.5	2777.4	2925.8	3018.5	3094.7	3260.6	3412.0	3557.4	3584.8
19°	2608.5	2768.6	2980.5	3235.3	3349.5	3520.3	3816.1	4000.6	4148.1	4195.9
20°	2701.3	2954.1	3283.1	3762.4	3923.5	4112.9	4396.0	4536.6	4638.1	4660.6
21°	2864.3	3279.2	3844.4	4317.9	4480.9	4586.4	4773.8	4862.7	4888.0	4921.2
22°	3134.7	3794.7	4375.5	4720.1	4829.5	4890.0	4910.5	4844.1	4784.6	4761.1
23°	3630.6	4302.3	4727.0	4918.3	4907.6	4833.4	4666.4	4509.3	4406.8	4363.8
24°	4169.5	4692.8	4902.7	4740.6	4647.9	4489.7	4276.9	4118.8	4009.4	3956.7
25°	4550.3	4886.1	4708.4	4401.9	4283.7	4119.7	3862.0	3710.7	3603.3	3554.5
26°	4835.3	4792.4	4380.4	4028.9	3890.3	3732.2	3505.7	3420.8	3341.7	3294.8
27°	4861.7	4513.2	4031.9	3644.3	3520.3	3408.1	3238.2	3116.2	3033.2	2989.3
28°	4649.8	4187.1	3660.9	3350.5	3249.9	3113.2	2920.9	2800.8	2742.3	2675.9
29°	4379.4	3813.2	3352.4	3029.3	2919.9	2782.3	2590.9	2432.8	2394.7	2353.7
30°	4016.3	3472.5	3045.9	2685.6	2581.2	2432.8	2286.4	2234.6	2209.2	2177.0
32.5°	3162.0	2616.3	2261.0	2124.3	2093.1	2079.4	2133.1	2141.9	2139.9	2122.3
35°	2366.4	2068.7	2056.0	2035.5	2009.1	1983.7	1933.9	1905.6	1881.2	1851.0
37.5°	2020.8	1937.8	1821.7	1721.1	1676.2	1642.0	1590.3	1562.0	1538.6	1521.0
40°	1770.9	1600.1	1483.9	1413.6	1389.2	1349.2	1316.9	1299.4	1281.8	1258.4
42.5°	1429.2	1276.9	1185.2	1135.4	1120.7	1105.1	1117.8	1138.3	1148.1	1158.8
45°	1100.2	1030.9	1052.4	1098.3	1116.8	1136.3	1164.7	1170.5	1172.5	1171.5
47.5°	958.7	1008.5	1033.8	1048.5	1045.6	1053.4	1076.8	1092.4	1102.2	1093.4
50°	910.8	917.7	952.8	988.9	994.8	985.0	989.9	1002.6	1016.3	1018.2
52.5°	823.9	853.2	880.6	905.0	926.5	947.9	983.1	1000.6	1011.4	1011.4
55°	740.0	793.7	831.8	865.9	879.6	885.5	903.0	909.9	916.7	911.8
57.5°	687.3	712.7	738.0	733.2	722.4	706.8	716.6	728.3	733.2	730.2
60°	555.5	556.5	559.4	567.2	579.9	591.6	603.3	606.2	611.1	610.2
62.5°	439.3	449.1	464.7	490.1	496.9	496.9	508.6	517.4	520.3	516.4
65°	394.4	413.9	441.3	455.9	455.9	458.8	480.3	505.7	515.5	513.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	385.6	419.8	433.5	454.0	469.6	485.2	506.7	521.3	530.1	533.0
70°	391.5	416.9	444.2	472.5	485.2	498.9	524.2	544.7	552.6	553.5
72.5°	390.5	423.7	451.0	485.2	499.8	512.5	531.1	538.9	541.8	541.8
75°	387.6	420.8	458.8	483.2	495.0	507.6	518.4	524.2	529.1	531.1
77.5°	374.9	411.0	429.5	452.0	459.8	465.7	479.3	489.1	495.9	496.9
80°	359.3	375.9	389.5	408.1	413.9	422.7	436.4	442.2	447.1	447.1
82.5°	329.0	340.7	355.4	374.9	385.6	394.4	405.1	409.0	412.0	413.0
85°	296.8	308.5	327.0	343.6	351.4	359.3	369.0	374.9	376.8	374.9
87.5°	267.5	284.1	301.7	314.3	317.3	321.2	329.0	333.9	335.8	337.8
90°	241.1	257.7	271.4	282.1	282.1	286.0	289.9	290.9	289.0	290.9
92.5°	217.7	228.4	236.3	241.1	241.1	244.1	248.9	250.9	249.9	250.9
95°	189.4	197.2	201.1	204.0	207.0	210.9	214.8	215.7	215.7	216.7
97.5°	164.0	169.9	173.8	176.7	177.7	180.6	180.6	181.6	181.6	182.6
100°	141.6	147.4	148.4	147.4	148.4	149.4	150.3	152.3	153.3	154.2
102.5°	120.1	125.0	126.9	127.9	128.9	130.8	132.8	133.7	135.7	135.7
105°	99.6	105.4	109.3	111.3	111.3	113.2	115.2	117.1	118.1	119.1
107.5°	84.9	90.8	95.7	97.6	99.6	100.6	102.5	104.5	105.4	106.4
110°	73.2	79.1	84.9	88.8	89.8	91.8	93.7	95.7	96.6	97.6
112.5°	65.4	70.3	75.2	79.1	81.0	83.0	84.9	86.9	88.8	88.8
115°	57.6	63.5	67.4	71.3	73.2	74.2	77.1	80.1	81.0	82.0
117.5°	51.7	56.6	60.5	64.4	66.4	68.3	70.3	72.2	74.2	74.2
120°	45.9	50.8	54.7	57.6	59.6	60.5	63.5	65.4	66.4	67.4
122.5°	40.0	44.9	47.8	51.7	52.7	54.7	57.6	59.6	60.5	61.5
125°	35.1	39.0	43.0	46.9	47.8	49.8	53.7	55.6	57.6	58.6
127.5°	31.2	35.1	40.0	43.9	45.9	48.8	52.7	55.6	57.6	58.6
130°	28.3	34.2	39.0	43.9	46.9	48.8	53.7	57.6	59.6	59.6
132.5°	28.3	34.2	40.0	44.9	47.8	49.8	54.7	58.6	60.5	61.5
135°	27.3	32.2	38.1	43.0	45.9	47.8	51.7	54.7	56.6	56.6
137.5°	24.4	28.3	32.2	36.1	39.0	41.0	43.9	45.9	47.8	47.8
140°	19.5	22.5	25.4	28.3	30.3	32.2	35.1	36.1	38.1	38.1
142.5°	14.6	16.6	19.5	21.5	22.5	24.4	26.4	28.3	29.3	29.3
145°	10.7	12.7	13.7	15.6	16.6	17.6	19.5	20.5	21.5	21.5
147.5°	7.8	8.8	9.8	11.7	11.7	12.7	14.6	15.6	15.6	15.6
150°	5.9	6.8	7.8	7.8	8.8	8.8	10.7	11.7	11.7	11.7
152.5°	4.9	4.9	5.9	5.9	6.8	6.8	7.8	8.8	8.8	8.8
155°	3.9	3.9	3.9	3.9	4.9	4.9	5.9	5.9	6.8	6.8
157.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.9	3.9	4.9	4.9
160°	2.9	2.9	2.0	2.0	2.0	2.0	2.9	2.9	2.9	2.9
162.5°	2.9	2.0	2.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0
165°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0
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: P236289

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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)