

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: P236284

Luminaire Tested: **4SWLED-52HL-LC-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236284
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-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

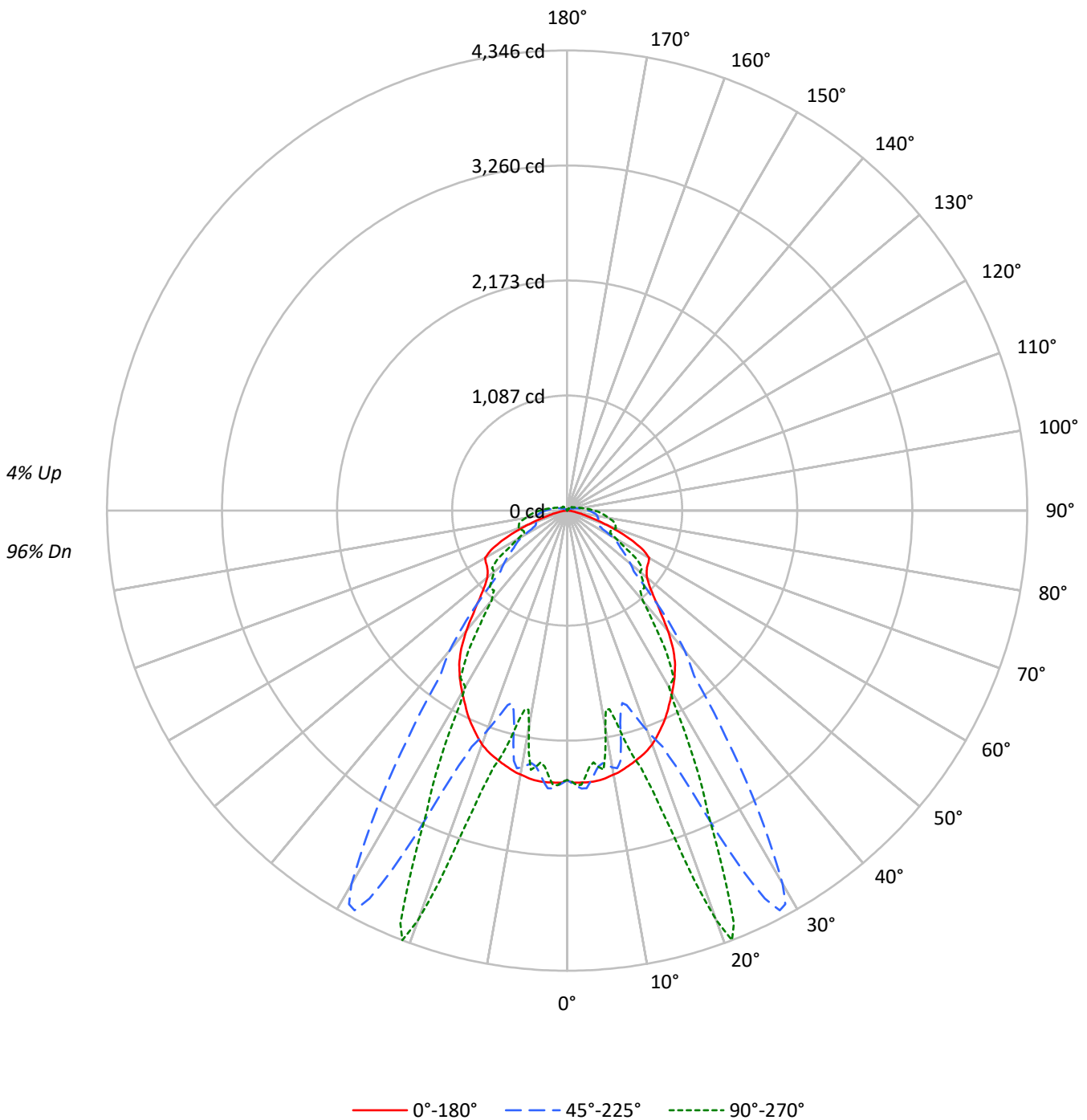
Lumens per Lamp: N/A
Luminaire Lumens: 6941.0 lumens
Efficiency: N/A
Efficacy: 145.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.15 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 4' x H: 0.15')
CIE Type: Direct

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	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°	18274	18274	18274
5°	18465	18007	16906
10°	18325	17043	14132
15°	18064	13412	16119
20°	17711	15250	27532
25°	16981	23395	21038
30°	16106	28747	13009
35°	15185	18939	11254
40°	13431	12916	7848
45°	11370	8522	7559
50°	10515	6426	6859
55°	10969	5387	6477
60°	12068	4572	4621
65°	10807	3391	4199
70°	7645	3566	4958
75°	4398	3975	5305
80°	2774	4397	5090
85°	1505	4703	5005



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	3.4
10°-20°	670.5	9.7
20°-30°	1321.2	19.0
30°-40°	1363.2	19.6
40°-50°	1145.5	16.5
50°-60°	844.9	12.2
60°-70°	479.1	6.9
70°-80°	343.9	5.0
80°-90°	233.2	3.4
90°-100°	139.3	2.0
100°-110°	72.7	1.0
110°-120°	40.7	0.6
120°-130°	23.8	0.3
130°-140°	16.5	0.2
140°-150°	6.0	0.1
150°-160°	1.7	0.0
160°-170°	0.4	0.0
170°-180°	0.0	0.0
0°-30°	2230.1	32.1
0°-40°	3593.3	51.8
0°-60°	5583.7	80.4
0°-90°	6639.8	95.7
90°-120°	252.7	3.6
90°-150°	299.1	4.3
90°-180°	301.0	4.3
0°-180°	6941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2547	2547	2547	2547	2547	
5°	2572	2610	2566	2445	2427	244
15°	2455	2349	1951	2197	2396	692
25°	2181	1947	3369	3783	3139	1001
35°	1778	2190	2617	1774	1634	1099
45°	1161	2924	1092	986	1034	915
55°	922	1641	616	777	805	833
65°	686	659	328	403	454	665
75°	180	266	304	437	469	215
85°	26	111	254	310	331	33
90°	2	81	202	249	257	2
95°	1	65	158	183	191	1
105°	1	34	83	98	105	1
115°	2	16	46	65	72	2
125°	2	7	27	42	52	2
135°	2	3	20	40	50	1
145°	2	2	8	15	19	1
155°	3	3	3	4	6	1
165°	3	3	3	1	2	1
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°	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6
1°	2568.2	2566.5	2556.1	2550.9	2550.1	2548.4	2549.2	2550.9	2555.3	2555.3	2575.1
2°	2570.8	2569.9	2563.0	2559.6	2559.6	2559.6	2561.3	2566.5	2569.9	2570.8	2601.0
3°	2571.6	2572.5	2568.2	2565.6	2571.6	2571.6	2574.2	2581.1	2593.2	2597.5	2628.5
4°	2573.4	2576.8	2574.2	2573.4	2585.4	2594.1	2599.2	2608.7	2616.5	2617.3	2629.4
5°	2571.6	2575.9	2575.9	2586.3	2602.7	2609.6	2613.9	2619.9	2607.8	2575.1	2565.6
6°	2569.9	2576.8	2581.1	2600.1	2614.7	2620.8	2621.6	2594.9	2563.0	2525.1	2494.1
7°	2565.6	2572.5	2586.3	2611.3	2620.8	2619.9	2605.3	2550.1	2494.1	2445.8	2432.0
8°	2555.3	2565.6	2593.2	2613.9	2607.0	2580.3	2552.7	2492.3	2439.7	2405.3	2407.8
9°	2543.2	2554.4	2593.2	2607.8	2574.2	2536.3	2501.8	2426.8	2393.2	2388.0	2434.6
10°	2531.1	2549.2	2594.1	2594.9	2521.6	2482.8	2435.4	2384.6	2383.7	2412.2	2463.0
11°	2520.8	2542.3	2588.9	2569.1	2476.8	2433.7	2385.4	2370.8	2404.4	2436.3	2479.4
12°	2506.1	2535.4	2577.7	2534.6	2419.0	2377.7	2352.7	2380.3	2420.8	2450.1	2417.3
13°	2488.9	2521.6	2556.1	2482.8	2371.6	2343.2	2352.7	2398.4	2424.2	2407.0	2261.3
14°	2470.8	2513.0	2530.3	2437.2	2328.5	2335.4	2365.6	2401.8	2406.1	2257.0	2074.2
15°	2455.3	2501.8	2502.7	2386.3	2313.9	2349.2	2372.5	2389.7	2321.6	2112.1	1950.9
16°	2437.2	2489.7	2472.5	2350.1	2327.7	2360.4	2373.4	2358.7	2161.3	1957.0	1890.6
17°	2419.0	2472.5	2434.6	2318.2	2344.0	2362.1	2361.3	2269.0	2042.3	1888.0	1919.9
18°	2398.4	2450.9	2400.1	2295.8	2350.9	2351.8	2332.0	2163.9	1923.3	1874.2	2009.6
19°	2375.1	2425.9	2363.0	2282.0	2342.3	2323.4	2271.6	2046.6	1877.6	1926.8	2111.3
20°	2350.1	2397.5	2329.4	2283.7	2320.8	2278.5	2200.1	1955.2	1875.1	2011.3	2215.6
21°	2319.0	2363.9	2297.5	2292.3	2281.1	2207.0	2108.7	1901.8	1916.4	2089.7	2310.4
22°	2285.4	2328.5	2272.5	2292.3	2220.8	2138.0	2026.8	1880.2	1987.1	2171.6	2404.4
23°	2249.2	2295.8	2249.2	2281.1	2146.6	2061.3	1960.4	1899.2	2038.0	2251.8	2615.6
24°	2216.5	2258.7	2233.7	2254.4	2080.2	1996.6	1919.0	1940.6	2085.4	2342.3	2910.4
25°	2181.1	2223.4	2219.9	2211.3	2019.9	1946.6	1910.4	1974.2	2148.3	2563.9	3369.1
26°	2142.3	2185.4	2207.0	2148.3	1974.2	1920.8	1922.5	1999.2	2232.8	2842.3	3782.0
27°	2100.9	2150.1	2182.0	2079.4	1942.3	1918.2	1947.5	2017.3	2428.5	3278.6	4111.3
28°	2059.6	2109.6	2146.6	2010.4	1923.3	1935.4	1957.8	2056.1	2678.5	3653.6	4276.0
29°	2019.9	2071.6	2107.0	1957.0	1920.8	1957.0	1956.1	2170.8	3067.3	3976.9	4250.1
30°	1984.6	2033.7	2061.3	1921.6	1934.5	1959.5	1955.2	2360.4	3399.3	4142.4	4071.7
32.5°	1884.5	1923.3	1924.2	1889.7	1957.0	1952.7	2107.0	3119.9	3954.4	3978.6	3357.9
35°	1777.6	1789.7	1807.0	1912.1	1971.6	2189.7	2704.4	3614.8	3920.0	3307.9	2617.3
37.5°	1644.9	1643.2	1759.5	1928.5	2263.9	2768.2	3179.4	3693.2	3357.0	2561.3	1970.8
40°	1477.6	1496.6	1750.9	1993.2	2737.2	3016.5	3221.7	3461.3	2602.7	1974.2	1726.8
42.5°	1306.9	1393.2	1750.9	2257.8	2829.4	2983.7	3192.3	2890.6	2061.3	1683.7	1412.1
45°	1161.2	1338.8	1763.9	2476.8	2738.9	2924.2	2957.0	2307.8	1708.7	1303.5	1092.3
47.5°	1053.5	1288.0	1875.9	2391.5	2644.1	2688.9	2565.6	1925.9	1275.0	957.8	856.1
50°	982.8	1227.6	1924.2	2223.4	2447.5	2391.5	2209.6	1420.7	880.2	775.0	781.9
52.5°	945.7	1214.7	1792.3	2066.4	2199.2	2078.5	1742.3	961.2	709.5	694.0	698.3
55°	922.4	1175.9	1599.2	1851.8	1888.0	1640.6	1286.3	723.3	606.9	598.3	615.5
57.5°	911.2	1065.6	1408.7	1569.9	1482.8	1263.0	976.8	551.7	494.0	511.2	563.0
60°	894.0	950.0	1131.1	1234.5	1181.1	1000.0	740.5	438.8	429.3	461.2	484.5
62.5°	813.0	815.5	791.4	975.0	966.4	811.2	585.4	375.9	359.5	369.0	374.2
65°	686.2	632.8	547.4	801.8	797.4	658.6	466.4	298.3	290.5	312.1	328.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
67.5°	544.8	456.0	410.4	641.4	633.6	521.6	373.3	256.9	271.6	294.0	318.1
70°	400.9	335.4	323.3	505.2	499.2	418.1	312.9	237.9	262.1	285.4	310.4
72.5°	273.3	248.3	254.3	381.0	390.5	334.5	265.5	225.9	247.4	274.1	312.1
75°	180.2	181.9	195.7	280.2	299.1	265.5	224.1	210.4	233.6	265.5	304.3
77.5°	123.3	129.3	145.7	200.9	223.3	206.9	190.5	194.0	219.0	256.0	296.6
80°	81.0	87.1	104.3	142.2	165.5	164.7	163.8	180.2	208.6	248.3	287.9
82.5°	49.1	55.2	71.6	100.9	125.0	132.8	143.1	167.2	201.7	245.7	277.6
85°	25.9	31.9	47.4	72.4	97.4	111.2	125.9	156.9	198.3	236.2	253.5
87.5°	10.3	16.4	31.0	52.6	79.3	94.8	112.1	149.1	192.2	217.2	226.7
90°	1.7	7.8	19.8	39.7	65.5	81.0	100.0	143.1	178.5	189.7	201.7
92.5°	0.9	4.3	13.8	30.2	55.2	71.6	91.4	132.8	156.0	167.2	178.5
95°	0.9	2.6	10.3	24.1	47.4	64.7	83.6	116.4	133.6	144.8	157.8
97.5°	0.9	2.6	7.8	19.8	43.1	58.6	75.0	98.3	112.9	125.9	137.1
100°	0.9	1.7	6.9	17.2	37.9	50.0	62.1	80.2	93.1	106.9	117.2
102.5°	0.9	1.7	6.0	15.5	32.8	42.2	50.9	64.7	78.5	89.7	100.0
105°	0.9	1.7	5.2	13.8	26.7	33.6	40.5	53.5	65.5	75.9	82.8
107.5°	0.9	1.7	4.3	11.2	21.6	27.6	33.6	44.8	55.2	62.9	69.8
110°	0.9	0.9	3.4	9.5	18.1	23.3	27.6	37.1	45.7	53.5	59.5
112.5°	1.7	1.7	3.4	7.8	14.7	19.0	23.3	31.0	38.8	45.7	51.7
115°	1.7	1.7	2.6	6.0	12.1	15.5	19.0	25.9	32.8	39.7	45.7
117.5°	1.7	1.7	2.6	5.2	9.5	12.9	15.5	21.6	27.6	34.5	40.5
120°	1.7	1.7	1.7	4.3	8.6	10.3	12.9	18.1	24.1	30.2	35.3
122.5°	1.7	1.7	1.7	3.4	6.9	8.6	10.3	15.5	20.7	25.9	31.0
125°	1.7	1.7	1.7	2.6	5.2	6.9	8.6	12.9	17.2	22.4	26.7
127.5°	1.7	1.7	1.7	2.6	4.3	6.0	6.9	10.3	14.7	18.1	23.3
130°	1.7	1.7	1.7	1.7	3.4	4.3	6.0	8.6	12.1	16.4	20.7
132.5°	1.7	1.7	1.7	1.7	3.4	4.3	5.2	7.8	12.1	15.5	19.8
135°	1.7	1.7	1.7	1.7	2.6	3.4	5.2	7.8	11.2	15.5	19.8
137.5°	1.7	1.7	1.7	1.7	2.6	3.4	4.3	6.9	10.3	14.7	18.1
140°	1.7	1.7	1.7	1.7	1.7	2.6	3.4	6.0	8.6	11.2	14.7
142.5°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	4.3	6.0	8.6	11.2
145°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4	4.3	6.0	7.8
147.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	3.4	4.3	6.0
150°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	3.4	4.3
152.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4
155°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
160°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
162.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
165°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P236284

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6	2546.6
1°	2582.0	2578.5	2575.9	2572.5	2569.1	2568.2	2566.5	2565.6	2558.7	2559.6
2°	2607.0	2609.6	2607.8	2604.4	2607.0	2603.5	2601.8	2598.4	2595.8	2596.6
3°	2637.2	2636.3	2628.5	2619.1	2613.0	2613.0	2600.1	2594.9	2579.4	2593.2
4°	2610.4	2592.3	2563.0	2549.2	2536.3	2534.6	2519.1	2504.4	2496.6	2510.4
5°	2538.0	2511.3	2474.2	2459.6	2444.9	2446.6	2433.7	2424.2	2418.2	2426.8
6°	2465.6	2441.5	2415.6	2400.1	2394.0	2389.7	2388.0	2390.6	2392.3	2391.5
7°	2414.7	2409.6	2407.0	2413.9	2419.9	2419.9	2430.3	2438.9	2441.5	2439.7
8°	2424.2	2441.5	2452.7	2457.0	2457.8	2459.6	2475.9	2475.9	2470.8	2472.5
9°	2463.0	2475.1	2487.2	2471.6	2441.5	2435.4	2378.5	2344.9	2297.5	2311.3
10°	2493.2	2470.8	2377.7	2300.9	2249.2	2232.0	2145.8	2107.8	2058.7	2072.5
11°	2441.5	2320.8	2180.2	2084.6	2035.4	2007.0	1950.9	1927.7	1918.2	1915.6
12°	2249.2	2108.7	1982.8	1927.7	1905.2	1896.6	1890.6	1897.5	1913.0	1917.3
13°	2074.2	1957.8	1900.1	1904.4	1915.6	1929.4	1977.7	2006.1	2033.7	2034.6
14°	1932.8	1897.5	1944.0	2002.7	2036.3	2057.8	2125.1	2171.6	2222.5	2232.0
15°	1895.8	1954.4	2064.7	2154.4	2196.6	2242.3	2331.1	2369.0	2397.5	2395.8
16°	1959.5	2060.4	2213.9	2319.0	2362.1	2392.3	2449.2	2483.7	2517.3	2522.5
17°	2066.4	2220.8	2362.1	2443.2	2474.2	2508.7	2613.9	2686.3	2747.5	2767.3
18°	2178.5	2340.6	2452.7	2583.7	2665.6	2732.9	2879.4	3013.0	3141.5	3165.6
19°	2303.5	2444.9	2632.0	2857.0	2957.9	3108.7	3369.9	3532.9	3663.1	3705.3
20°	2385.4	2608.7	2899.2	3322.5	3464.8	3632.0	3882.0	4006.2	4095.8	4115.7
21°	2529.4	2895.8	3394.9	3813.1	3957.0	4050.1	4215.7	4294.1	4316.5	4345.8
22°	2768.2	3351.0	3863.9	4168.2	4264.8	4318.3	4336.4	4277.7	4225.1	4204.5
23°	3206.1	3799.3	4174.3	4343.3	4333.8	4268.2	4120.8	3982.0	3891.5	3853.6
24°	3682.0	4144.1	4329.5	4186.3	4104.4	3964.8	3776.9	3637.2	3540.6	3494.1
25°	4018.2	4314.8	4157.9	3887.2	3782.9	3638.1	3410.5	3276.8	3182.0	3138.9
26°	4270.0	4232.0	3868.2	3557.9	3435.5	3295.8	3095.8	3020.8	2951.0	2909.6
27°	4293.2	3985.5	3560.5	3218.2	3108.7	3009.6	2859.6	2751.8	2678.5	2639.7
28°	4106.2	3697.5	3232.9	2958.7	2869.9	2749.2	2579.4	2473.4	2421.6	2363.0
29°	3867.4	3367.4	2960.4	2675.1	2578.5	2457.0	2288.0	2148.3	2114.7	2078.5
30°	3546.7	3066.5	2689.7	2371.6	2279.4	2148.3	2019.0	1973.3	1950.9	1922.5
32.5°	2792.3	2310.4	1996.6	1875.9	1848.3	1836.3	1883.7	1891.4	1889.7	1874.2
35°	2089.7	1826.8	1815.6	1797.5	1774.2	1751.8	1707.8	1682.8	1661.3	1634.5
37.5°	1784.5	1711.3	1608.7	1519.9	1480.2	1450.0	1404.4	1379.4	1358.7	1343.1
40°	1563.8	1413.0	1310.4	1248.3	1226.8	1191.4	1163.0	1147.5	1131.9	1111.2
42.5°	1262.1	1127.6	1046.6	1002.6	989.7	975.9	987.1	1005.2	1013.8	1023.3
45°	971.6	910.4	929.3	969.9	986.2	1003.5	1028.5	1033.7	1035.4	1034.5
47.5°	846.6	890.5	913.0	925.9	923.3	930.2	950.9	964.7	973.3	965.6
50°	804.3	810.4	841.4	873.3	878.5	869.9	874.2	885.4	897.4	899.2
52.5°	727.6	753.5	777.6	799.2	818.1	837.1	868.1	883.7	893.1	893.1
55°	653.5	700.9	734.5	764.7	776.8	781.9	797.4	803.5	809.5	805.2
57.5°	606.9	629.3	651.7	647.4	638.0	624.2	632.8	643.1	647.4	644.8
60°	490.5	491.4	494.0	500.9	512.1	522.4	532.8	535.4	539.7	538.8
62.5°	387.9	396.6	410.4	432.8	438.8	438.8	449.2	456.9	459.5	456.0
65°	348.3	365.5	389.7	402.6	402.6	405.2	424.2	446.6	455.2	453.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
67.5°	340.5	370.7	382.8	400.9	414.7	428.5	447.4	460.4	468.1	470.7
70°	345.7	368.1	392.3	417.3	428.5	440.5	462.9	481.1	487.9	488.8
72.5°	344.8	374.2	398.3	428.5	441.4	452.6	469.0	475.9	478.5	478.5
75°	342.3	371.6	405.2	426.7	437.1	448.3	457.8	462.9	467.3	469.0
77.5°	331.0	362.9	379.3	399.2	406.0	411.2	423.3	431.9	437.9	438.8
80°	317.3	331.9	344.0	360.4	365.5	373.3	385.4	390.5	394.8	394.8
82.5°	290.5	300.9	313.8	331.0	340.5	348.3	357.8	361.2	363.8	364.7
85°	262.1	272.4	288.8	303.5	310.4	317.3	325.9	331.0	332.8	331.0
87.5°	236.2	250.9	266.4	277.6	280.2	283.6	290.5	294.8	296.6	298.3
90°	212.9	227.6	239.7	249.1	249.1	252.6	256.0	256.9	255.2	256.9
92.5°	192.2	201.7	208.6	212.9	212.9	215.5	219.8	221.6	220.7	221.6
95°	167.2	174.1	177.6	180.2	182.8	186.2	189.7	190.5	190.5	191.4
97.5°	144.8	150.0	153.5	156.0	156.9	159.5	159.5	160.4	160.4	161.2
100°	125.0	130.2	131.0	130.2	131.0	131.9	132.8	134.5	135.3	136.2
102.5°	106.0	110.3	112.1	112.9	113.8	115.5	117.2	118.1	119.8	119.8
105°	87.9	93.1	96.6	98.3	98.3	100.0	101.7	103.5	104.3	105.2
107.5°	75.0	80.2	84.5	86.2	87.9	88.8	90.5	92.2	93.1	94.0
110°	64.7	69.8	75.0	78.5	79.3	81.0	82.8	84.5	85.3	86.2
112.5°	57.8	62.1	66.4	69.8	71.6	73.3	75.0	76.7	78.5	78.5
115°	50.9	56.0	59.5	62.9	64.7	65.5	68.1	70.7	71.6	72.4
117.5°	45.7	50.0	53.5	56.9	58.6	60.3	62.1	63.8	65.5	65.5
120°	40.5	44.8	48.3	50.9	52.6	53.5	56.0	57.8	58.6	59.5
122.5°	35.3	39.7	42.2	45.7	46.6	48.3	50.9	52.6	53.5	54.3
125°	31.0	34.5	37.9	41.4	42.2	44.0	47.4	49.1	50.9	51.7
127.5°	27.6	31.0	35.3	38.8	40.5	43.1	46.6	49.1	50.9	51.7
130°	25.0	30.2	34.5	38.8	41.4	43.1	47.4	50.9	52.6	52.6
132.5°	25.0	30.2	35.3	39.7	42.2	44.0	48.3	51.7	53.5	54.3
135°	24.1	28.4	33.6	37.9	40.5	42.2	45.7	48.3	50.0	50.0
137.5°	21.6	25.0	28.4	31.9	34.5	36.2	38.8	40.5	42.2	42.2
140°	17.2	19.8	22.4	25.0	26.7	28.4	31.0	31.9	33.6	33.6
142.5°	12.9	14.7	17.2	19.0	19.8	21.6	23.3	25.0	25.9	25.9
145°	9.5	11.2	12.1	13.8	14.7	15.5	17.2	18.1	19.0	19.0
147.5°	6.9	7.8	8.6	10.3	10.3	11.2	12.9	13.8	13.8	13.8
150°	5.2	6.0	6.9	6.9	7.8	7.8	9.5	10.3	10.3	10.3
152.5°	4.3	4.3	5.2	5.2	6.0	6.0	6.9	7.8	7.8	7.8
155°	3.4	3.4	3.4	3.4	4.3	4.3	5.2	5.2	6.0	6.0
157.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4	4.3	4.3
160°	2.6	2.6	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6
162.5°	2.6	1.7	1.7	1.7	0.9	1.7	1.7	1.7	1.7	1.7
165°	1.7	1.7	1.7	0.9	0.9	0.9	0.9	0.9	0.9	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



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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)