

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: P236379

Luminaire Tested: **SKB2-LD5-9-W-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB2-LD5-9-W-UNV-L835-CD1-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

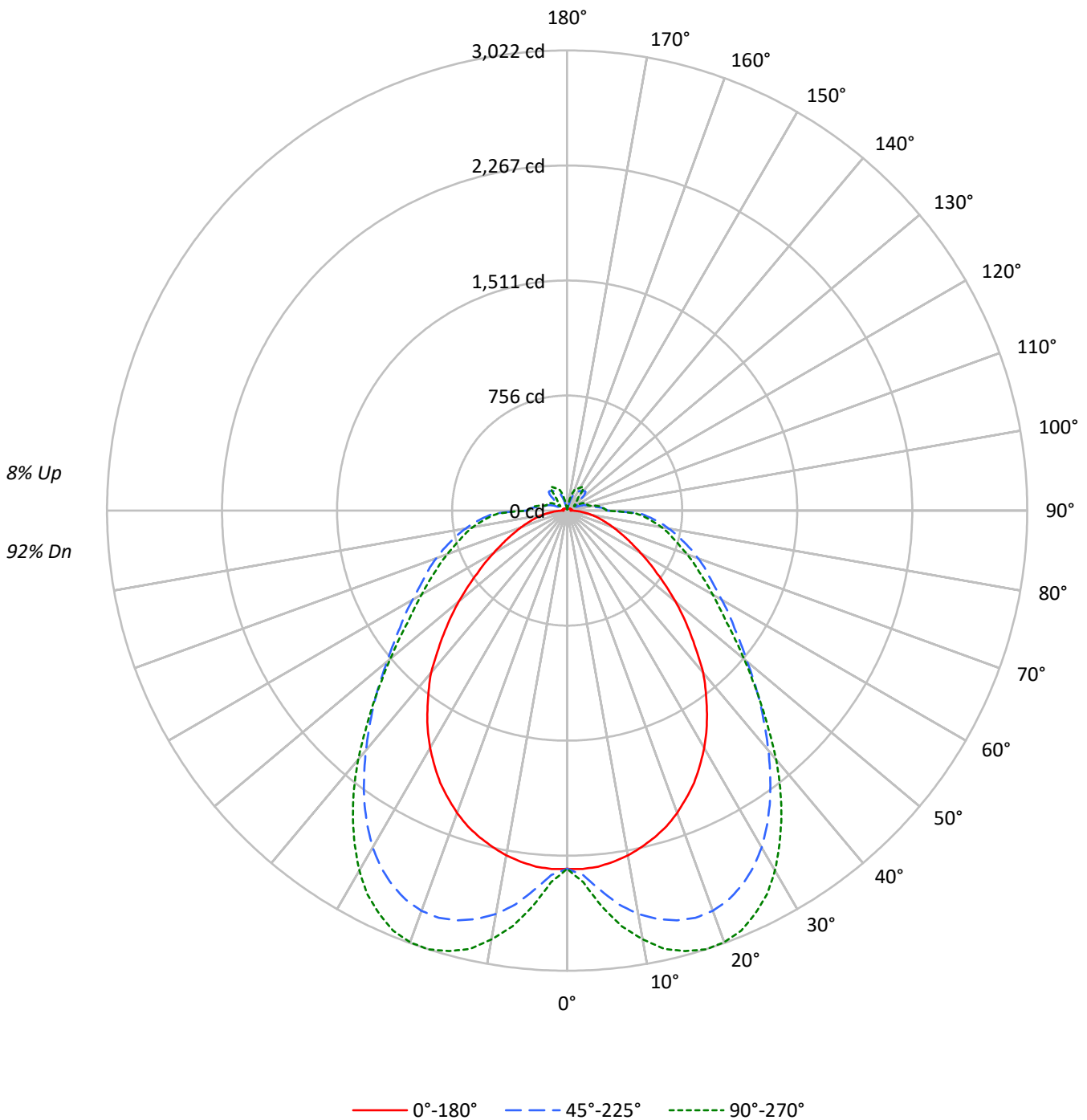
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8791.0 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 75.4
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	0
RCR																		
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	78	76	74
2	95	87	79	73	92	84	77	72	79	74	69	75	70	66	70	67	63	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	80	67	58	52	77	66	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	45	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	45	38	50	43	37	48	41	36	46	40	36	33
7	63	49	41	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	40	34	29	38	33	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10131	10131	10131
5°	10052	10635	11113
10°	9874	11377	12142
15°	9633	11813	12779
20°	9327	11980	13031
25°	8937	11839	12878
30°	8437	11437	12378
35°	7838	10769	11545
40°	7186	9955	10529
45°	6325	9163	9415
50°	5526	8421	8470
55°	4721	7900	7739
60°	4063	7582	7376
65°	3552	7441	7196
70°	3148	7537	7229
75°	2831	7685	7441
80°	2536	8041	8035
85°	2122	8536	8787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.5	2.8
10°-20°	766.2	8.7
20°-30°	1200.2	13.7
30°-40°	1380.6	15.7
40°-50°	1290.9	14.7
50°-60°	1086.5	12.4
60°-70°	896.1	10.2
70°-80°	719.8	8.2
80°-90°	492.9	5.6
90°-100°	198.4	2.3
100°-110°	121.2	1.4
110°-120°	88.0	1.0
120°-130°	76.3	0.9
130°-140°	84.9	1.0
140°-150°	81.0	0.9
150°-160°	48.1	0.5
160°-170°	15.8	0.2
170°-180°	1.5	0.0
0°-30°	2208.9	25.1
0°-40°	3589.6	40.8
0°-60°	5966.9	67.9
0°-90°	8075.7	91.9
90°-120°	407.7	4.6
90°-150°	649.9	7.4
90°-180°	715.0	8.1
0°-180°	8791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2353	2353	2353	2353	2353	
5°	2347	2399	2502	2589	2609	222
15°	2222	2520	2786	2949	2995	625
25°	1972	2394	2715	2876	2922	905
35°	1600	2036	2324	2440	2453	999
45°	1147	1546	1793	1832	1804	886
55°	722	1132	1340	1317	1276	653
65°	426	856	1030	982	959	426
75°	236	659	792	740	726	251
85°	94	465	551	518	517	91
90°	24	209	266	260	261	19
95°	29	143	222	228	229	23
105°	29	72	135	141	139	31
115°	24	114	61	105	117	25
125°	22	136	89	64	57	19
135°	17	126	171	102	90	13
145°	14	98	157	185	187	9
155°	13	39	134	152	156	6
165°	13	18	46	86	99	4
175°	12	12	14	15	12	1
180°	11	11	11	11	11	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9
2.5°	2355.8	2357.8	2362.7	2370.5	2371.5	2368.6	2364.7	2371.5	2368.6	2383.3	2395.1
5°	2347.0	2349.0	2359.8	2382.3	2390.1	2399.0	2401.9	2426.4	2446.0	2474.5	2501.9
7.5°	2326.4	2338.2	2355.8	2394.1	2426.4	2440.1	2454.9	2493.1	2532.3	2573.5	2608.8
10°	2300.0	2314.7	2350.9	2406.8	2456.8	2481.3	2502.9	2557.8	2600.9	2646.0	2690.1
12.5°	2262.7	2284.3	2333.3	2412.7	2479.4	2505.8	2533.3	2594.1	2646.0	2700.9	2748.0
15°	2221.5	2250.0	2314.7	2411.7	2485.2	2519.6	2549.0	2613.7	2673.5	2732.3	2786.2
17.5°	2172.5	2205.8	2289.2	2396.0	2477.4	2513.7	2546.0	2614.7	2680.3	2742.1	2803.9
20°	2112.7	2154.9	2254.9	2367.6	2450.9	2491.1	2524.5	2599.0	2669.6	2738.2	2797.0
22.5°	2044.1	2095.1	2203.9	2324.5	2411.7	2450.9	2486.2	2567.6	2643.1	2706.8	2767.6
25°	1972.5	2027.4	2146.0	2267.6	2357.8	2394.1	2433.3	2518.6	2589.2	2654.9	2714.7
27.5°	1887.2	1947.0	2077.4	2200.0	2287.2	2329.4	2367.6	2448.0	2520.5	2589.2	2645.0
30°	1799.0	1863.7	1997.0	2109.8	2200.9	2249.0	2283.3	2360.7	2437.2	2500.0	2554.9
32.5°	1704.9	1766.6	1901.9	2018.6	2104.9	2150.0	2183.3	2259.8	2330.3	2388.2	2444.1
35°	1600.0	1668.6	1800.9	1911.7	1996.0	2036.2	2069.6	2152.9	2214.7	2273.5	2323.5
37.5°	1495.1	1559.8	1686.2	1800.9	1883.3	1920.6	1950.9	2033.3	2091.1	2144.1	2191.1
40°	1390.2	1446.1	1571.5	1674.5	1759.8	1792.1	1828.4	1898.0	1960.7	2014.7	2055.8
42.5°	1261.7	1331.3	1455.9	1556.8	1633.3	1672.5	1706.8	1779.4	1832.3	1880.4	1920.6
45°	1147.0	1219.6	1334.3	1436.2	1514.7	1546.0	1580.4	1649.0	1708.8	1750.9	1793.1
47.5°	1035.3	1107.8	1222.5	1317.6	1396.1	1436.2	1463.7	1533.3	1588.2	1634.3	1665.7
50°	927.4	1001.0	1110.8	1210.8	1285.3	1322.5	1357.8	1420.6	1481.3	1518.6	1544.1
52.5°	821.6	897.0	1014.7	1107.8	1186.3	1220.6	1252.9	1323.5	1379.4	1416.6	1437.2
55°	722.5	806.8	922.5	1017.6	1094.1	1132.3	1166.6	1236.3	1283.3	1315.7	1340.2
57.5°	640.2	720.6	837.2	936.3	1014.7	1049.0	1086.3	1153.9	1199.0	1233.3	1256.8
60°	556.9	644.1	764.7	858.8	940.2	980.4	1014.7	1075.5	1125.5	1159.8	1172.5
62.5°	488.2	578.4	696.1	792.1	878.4	913.7	949.0	1009.8	1059.8	1086.3	1096.1
65°	426.5	518.6	636.3	732.3	819.6	855.9	887.2	952.9	991.2	1018.6	1030.4
67.5°	369.6	464.7	585.3	681.4	764.7	798.0	832.3	894.1	937.2	964.7	976.5
70°	321.6	417.6	534.3	637.2	715.7	751.9	787.2	845.1	886.3	913.7	913.7
72.5°	275.5	373.5	491.2	590.2	672.5	707.8	736.3	800.0	838.2	856.8	854.9
75°	236.3	332.3	452.9	544.1	627.4	658.8	696.1	753.9	785.3	798.0	792.1
77.5°	198.0	294.1	415.7	508.8	586.3	628.4	655.9	702.9	730.4	742.1	735.3
80°	162.7	256.9	374.5	466.7	547.0	577.4	602.9	648.0	672.5	682.3	676.5
82.5°	128.4	222.5	337.2	427.4	495.1	520.6	547.0	590.2	616.7	625.5	618.6
85°	94.1	185.3	296.1	375.5	438.2	464.7	490.2	528.4	550.0	559.8	551.0
87.5°	63.7	150.0	249.0	320.6	376.5	400.0	423.5	456.9	481.4	487.2	484.3
90°	23.5	70.6	129.4	163.7	195.1	208.8	219.6	243.1	259.8	267.6	265.7
92.5°	26.5	55.9	99.0	134.3	162.7	178.4	195.1	218.6	237.3	246.1	247.1
95°	29.4	49.0	69.6	102.9	132.4	143.1	154.9	180.4	202.0	217.6	222.5
97.5°	28.4	50.0	66.7	75.5	106.9	120.6	131.4	151.0	164.7	174.5	184.3
100°	29.4	52.0	74.5	71.6	78.4	95.1	109.8	132.4	147.1	155.9	157.8
102.5°	29.4	52.9	83.3	78.4	71.6	72.5	78.4	111.8	130.4	142.2	147.1
105°	29.4	52.9	85.3	86.3	75.5	71.6	69.6	80.4	108.8	126.5	135.3
107.5°	29.4	52.9	86.3	104.9	84.3	78.4	73.5	67.6	74.5	102.9	119.6
110°	28.4	51.0	87.3	110.8	92.2	86.3	82.4	70.6	64.7	72.5	96.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	26.5	44.1	86.3	111.8	108.8	96.1	90.2	78.4	67.6	61.8	67.6
115°	24.5	39.2	85.3	111.8	126.5	113.7	99.0	86.3	75.5	65.7	60.8
117.5°	24.5	37.3	87.3	110.8	131.4	135.3	119.6	94.1	83.3	73.5	64.7
120°	23.5	32.4	81.4	110.8	130.4	140.2	140.2	105.9	90.2	82.4	73.5
122.5°	22.5	26.5	81.4	110.8	129.4	139.2	147.1	140.2	101.0	89.2	81.4
125°	21.6	25.5	73.5	109.8	127.4	136.3	145.1	152.9	120.6	99.0	89.2
127.5°	20.6	24.5	62.7	109.8	125.5	134.3	142.2	155.9	149.0	115.7	99.0
130°	19.6	22.5	55.9	102.0	122.5	130.4	139.2	152.9	165.7	152.0	115.7
132.5°	18.6	21.6	45.1	97.1	121.6	127.4	134.3	149.0	161.8	168.6	153.9
135°	16.7	19.6	38.2	87.3	122.5	126.5	131.4	145.1	157.8	168.6	170.6
137.5°	15.7	18.6	30.4	75.5	113.7	127.4	129.4	140.2	152.9	162.7	172.5
140°	14.7	17.6	22.5	63.7	106.9	118.6	130.4	136.3	148.0	158.8	167.6
142.5°	14.7	16.7	19.6	54.9	95.1	111.8	121.6	133.3	142.2	152.9	162.7
145°	13.7	15.7	18.6	39.2	77.4	98.0	114.7	134.3	138.2	147.1	156.9
147.5°	13.7	14.7	18.6	33.3	65.7	82.4	100.0	122.5	138.2	142.2	151.0
150°	12.7	14.7	17.6	21.6	52.9	68.6	82.4	117.6	130.4	140.2	145.1
152.5°	12.7	13.7	17.6	18.6	38.2	54.9	67.6	97.1	121.6	134.3	143.1
155°	12.7	13.7	16.7	18.6	28.4	39.2	53.9	75.5	102.9	124.5	134.3
157.5°	12.7	13.7	15.7	18.6	19.6	26.5	37.3	60.8	81.4	102.9	125.5
160°	12.7	12.7	15.7	17.6	18.6	19.6	24.5	40.2	62.7	77.4	97.1
162.5°	12.7	12.7	14.7	16.7	18.6	18.6	18.6	27.5	39.2	59.8	72.5
165°	12.7	12.7	13.7	15.7	17.6	17.6	18.6	18.6	22.5	35.3	46.1
167.5°	12.7	12.7	12.7	14.7	15.7	16.7	17.6	17.6	18.6	18.6	23.5
170°	11.8	12.7	12.7	13.7	14.7	14.7	15.7	16.7	17.6	17.6	18.6
172.5°	11.8	11.8	11.8	12.7	12.7	13.7	13.7	14.7	15.7	15.7	16.7
175°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	12.7	12.7	12.7	13.7
177.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
180°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9	2352.9
2.5°	2401.9	2406.8	2417.6	2423.5	2427.4	2428.4	2440.1	2436.2	2443.1	2443.1
5°	2521.5	2539.2	2559.8	2581.3	2589.2	2596.0	2605.8	2608.8	2616.6	2608.8
7.5°	2640.1	2659.8	2683.3	2704.8	2717.6	2727.4	2741.1	2748.0	2754.8	2752.9
10°	2724.5	2749.9	2780.3	2808.8	2821.5	2831.3	2847.0	2854.8	2861.7	2858.8
12.5°	2785.2	2819.6	2852.9	2885.2	2898.0	2907.8	2923.5	2933.3	2939.2	2948.0
15°	2829.4	2861.7	2900.9	2936.2	2949.0	2962.7	2978.4	2986.2	2991.1	2995.0
17.5°	2847.0	2889.2	2923.5	2955.8	2969.6	2983.3	3002.9	3010.7	3016.6	3021.5
20°	2841.1	2880.3	2918.6	2952.9	2967.6	2982.3	2998.0	3011.7	3015.6	3016.6
22.5°	2808.8	2853.9	2896.0	2931.3	2938.2	2950.9	2965.6	2980.3	2984.3	2985.2
25°	2759.8	2799.9	2839.2	2866.6	2876.4	2892.1	2905.8	2917.6	2919.6	2921.5
27.5°	2685.2	2723.5	2757.8	2792.1	2804.8	2815.6	2828.4	2836.2	2837.2	2841.1
30°	2589.2	2630.3	2663.7	2693.1	2699.9	2704.8	2718.6	2729.4	2726.4	2729.4
32.5°	2479.4	2518.6	2550.9	2568.6	2577.4	2588.2	2597.0	2601.9	2601.9	2597.0
35°	2357.8	2392.1	2418.6	2433.3	2440.1	2449.0	2455.8	2458.8	2460.7	2452.9
37.5°	2222.5	2256.8	2277.4	2293.1	2297.0	2304.9	2297.0	2305.8	2302.9	2299.0
40°	2087.2	2115.6	2129.4	2147.0	2140.2	2144.1	2139.2	2148.0	2137.2	2135.3
42.5°	1953.9	1968.6	1982.3	1981.3	1983.3	1980.4	1976.4	1969.6	1967.6	1962.7
45°	1820.6	1835.3	1832.3	1831.3	1832.3	1827.4	1819.6	1818.6	1810.7	1803.9
47.5°	1684.3	1688.2	1692.1	1687.2	1686.2	1680.4	1675.5	1662.7	1656.8	1651.9
50°	1561.7	1566.6	1563.7	1558.8	1550.0	1547.0	1536.2	1527.4	1522.5	1515.7
52.5°	1448.0	1451.9	1443.1	1436.2	1427.4	1420.6	1410.8	1402.9	1393.1	1393.1
55°	1348.0	1346.1	1332.3	1325.5	1316.6	1310.8	1298.0	1288.2	1284.3	1276.4
57.5°	1254.9	1249.0	1234.3	1223.5	1217.6	1209.8	1202.9	1194.1	1189.2	1186.3
60°	1170.6	1159.8	1150.0	1140.2	1137.2	1127.4	1123.5	1107.8	1104.9	1103.9
62.5°	1094.1	1089.2	1077.4	1058.8	1052.9	1050.0	1041.2	1034.3	1027.4	1029.4
65°	1033.3	1016.6	1001.0	989.2	982.3	977.4	971.5	964.7	960.8	958.8
67.5°	966.6	951.0	935.3	923.5	918.6	914.7	907.8	901.9	900.0	899.0
70°	901.9	888.2	876.5	860.8	854.9	853.9	846.1	842.1	839.2	837.2
72.5°	841.2	825.5	810.8	800.0	795.1	792.1	788.2	785.3	782.3	778.4
75°	779.4	764.7	751.9	742.1	740.2	737.2	732.3	729.4	728.4	725.5
77.5°	719.6	707.8	695.1	691.2	687.2	685.3	685.3	681.4	679.4	679.4
80°	664.7	651.9	642.1	637.2	636.3	634.3	633.3	629.4	627.4	630.4
82.5°	603.9	592.1	585.3	578.4	577.4	575.5	575.5	572.5	573.5	571.6
85°	540.2	530.4	523.5	519.6	517.6	518.6	518.6	517.6	517.6	516.7
87.5°	469.6	463.7	457.8	454.9	455.9	457.8	455.9	454.9	454.9	456.9
90°	260.8	258.8	258.8	258.8	259.8	257.8	259.8	260.8	259.8	260.8
92.5°	245.1	243.1	244.1	245.1	247.1	245.1	247.1	247.1	246.1	247.1
95°	222.5	226.5	224.5	227.4	228.4	227.4	230.4	232.3	230.4	229.4
97.5°	192.2	196.1	201.0	204.9	208.8	208.8	209.8	211.8	211.8	213.7
100°	155.9	159.8	161.8	167.6	174.5	174.5	178.4	181.4	181.4	183.3
102.5°	148.0	148.0	147.1	146.1	146.1	145.1	145.1	147.1	147.1	150.0
105°	139.2	140.2	140.2	140.2	141.2	140.2	140.2	141.2	140.2	139.2
107.5°	127.4	132.4	134.3	135.3	135.3	135.3	136.3	137.3	137.3	137.3
110°	109.8	120.6	124.5	127.4	130.4	128.4	131.4	133.3	133.3	133.3



TEST NUMBER: P236379

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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	85.3	101.0	110.8	116.7	119.6	120.6	123.5	126.5	126.5	126.5
115°	59.8	68.6	84.3	101.0	104.9	106.9	111.8	116.7	116.7	116.7
117.5°	58.8	55.9	61.8	67.6	69.6	76.5	93.1	99.0	102.0	100.0
120°	64.7	59.8	55.9	53.9	54.9	58.8	62.7	66.7	69.6	68.6
122.5°	74.5	65.7	60.8	57.8	57.8	55.9	55.9	54.9	53.9	52.9
125°	81.4	76.5	69.6	64.7	63.7	61.8	60.8	58.8	58.8	56.9
127.5°	89.2	83.3	79.4	76.5	73.5	71.6	69.6	66.7	64.7	62.7
130°	100.0	92.2	86.3	83.3	82.4	81.4	79.4	77.4	74.5	72.5
132.5°	116.7	104.9	97.1	93.1	91.2	89.2	86.3	85.3	83.3	81.4
135°	158.8	125.5	110.8	104.9	102.0	99.0	96.1	94.1	91.2	90.2
137.5°	172.5	162.7	142.2	123.5	116.7	113.7	108.8	105.9	102.9	102.0
140°	176.5	183.3	169.6	166.7	162.7	152.0	133.3	125.5	122.5	120.6
142.5°	169.6	178.4	184.3	188.2	176.5	175.5	171.6	168.6	168.6	163.7
145°	164.7	171.6	178.4	183.3	185.3	187.3	190.2	192.2	189.2	187.3
147.5°	157.8	165.7	169.6	176.5	177.4	179.4	182.3	183.3	184.3	183.3
150°	150.0	157.8	161.8	168.6	168.6	171.6	173.5	176.5	176.5	174.5
152.5°	144.1	150.0	154.9	159.8	161.8	162.7	164.7	166.7	166.7	166.7
155°	144.1	144.1	146.1	150.0	152.0	152.9	154.9	155.9	156.9	155.9
157.5°	129.4	139.2	146.1	146.1	145.1	145.1	146.1	148.0	149.0	148.0
160°	110.8	125.5	130.4	136.3	138.2	139.2	146.1	146.1	146.1	145.1
162.5°	83.3	97.1	107.8	118.6	120.6	125.5	128.4	127.4	130.4	125.5
165°	59.8	68.6	74.5	81.4	86.3	91.2	96.1	98.0	101.0	99.0
167.5°	32.4	38.2	48.0	54.9	57.8	59.8	63.7	65.7	69.6	66.7
170°	18.6	18.6	19.6	25.5	28.4	29.4	32.4	32.4	31.4	33.3
172.5°	16.7	17.6	17.6	17.6	17.6	17.6	16.7	16.7	15.7	14.7
175°	13.7	14.7	14.7	14.7	14.7	14.7	13.7	13.7	12.7	11.8
177.5°	11.8	11.8	11.8	11.8	10.8	10.8	10.8	9.8	8.8	7.8
180°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8

(END OF REPORT)