

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: P236410

Luminaire Tested: **SKB4-LD5-30-W-UNV-L840-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236410  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB4-LD5-30-W-UNV-L840-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

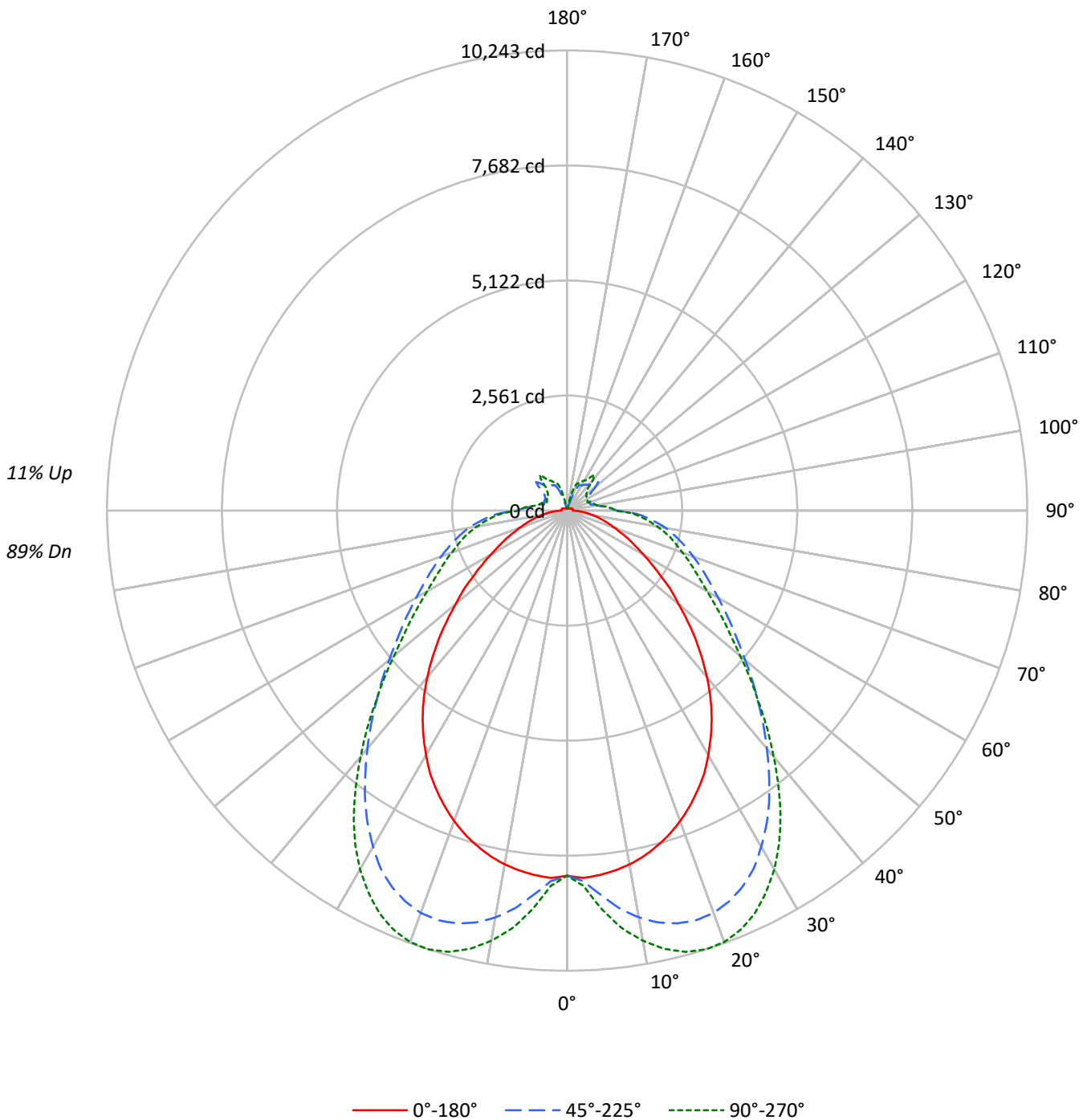
Lumens per Lamp: N/A  
Luminaire Lumens: 30602.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 260.5  
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	99	95	90	101	96	92	88	90	86	83	84	81	78	78	76	74	71
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59
3	87	76	67	61	83	73	66	60	69	62	57	65	59	55	61	56	52	50
4	79	67	58	52	76	65	57	51	61	54	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	44	39	37
6	68	54	45	39	65	53	44	38	50	43	37	47	41	36	44	39	35	32
7	63	49	41	34	60	48	40	34	45	38	33	43	37	32	41	35	31	29
8	58	45	37	31	56	44	36	30	42	35	29	39	33	29	37	32	28	26
9	55	41	33	28	53	40	33	27	38	31	27	36	30	26	35	29	25	23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	24	32	27	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11663	11663	11663
5°	11683	12244	12711
10°	11548	13133	13896
15°	11326	13710	14673
20°	11027	13967	15005
25°	10624	13883	14892
30°	10106	13423	14360
35°	9479	12715	13459
40°	8693	11815	12255
45°	7791	10930	10999
50°	6795	10151	9902
55°	5944	9606	9162
60°	5152	9282	8668
65°	4608	9254	8557
70°	4138	9517	8794
75°	3863	10095	9404
80°	3656	11126	10307
85°	3549	12604	12000



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.1	2.7
10°-20°	2615.7	8.5
20°-30°	4083.0	13.3
30°-40°	4677.7	15.3
40°-50°	4349.1	14.2
50°-60°	3626.7	11.9
60°-70°	2956.3	9.7
70°-80°	2367.7	7.7
80°-90°	1626.4	5.3
90°-100°	811.6	2.7
100°-110°	548.8	1.8
110°-120°	493.0	1.6
120°-130°	486.4	1.6
130°-140°	476.4	1.6
140°-150°	377.5	1.2
150°-160°	208.0	0.7
160°-170°	60.2	0.2
170°-180°	6.4	0.0
0°-30°	7529.8	24.6
0°-40°	12207.5	39.9
0°-60°	20183.3	66.0
0°-90°	27133.7	88.7
90°-120°	1853.4	6.1
90°-150°	3193.7	10.4
90°-180°	3468.0	11.3
0°-180°	30602.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8126	8126	8126	8126	8126	
5°	8146	8267	8585	8802	8909	773
15°	7729	8622	9513	10001	10169	2177
25°	6872	8210	9239	9721	9892	3159
35°	5608	6953	7844	8231	8280	3494
45°	4038	5255	6006	6117	6021	3109
55°	2552	3813	4472	4348	4243	2300
65°	1508	2851	3399	3204	3120	1499
75°	832	2190	2605	2436	2399	883
85°	344	1527	1775	1672	1654	328
90°	126	917	1100	1072	1066	84
95°	128	636	866	892	913	103
105°	123	463	538	598	607	130
115°	106	688	547	510	501	107
125°	90	619	617	547	527	80
135°	67	558	867	701	635	54
145°	60	409	705	810	913	37
155°	58	91	617	675	698	27
165°	58	80	108	333	410	16
175°	56	58	66	67	55	5
180°	51	51	51	51	51	



TEST NUMBER: P236410

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4
2.5°	8186.2	8172.5	8153.8	8177.5	8178.8	8173.8	8176.3	8199.9	8214.9	8242.3	8257.2
5°	8146.4	8141.4	8145.1	8196.2	8243.5	8267.2	8289.6	8364.4	8440.3	8517.6	8584.8
7.5°	8082.8	8092.8	8123.9	8227.3	8330.7	8381.8	8439.1	8579.8	8704.4	8814.0	8929.9
10°	7996.9	8014.3	8091.6	8251.0	8417.9	8497.6	8583.6	8756.7	8928.6	9076.8	9195.2
12.5°	7881.0	7912.2	8040.5	8259.7	8478.9	8584.8	8695.7	8896.2	9078.1	9248.7	9392.0
15°	7729.1	7792.6	7960.8	8241.0	8503.9	8622.2	8741.8	8964.7	9166.5	9355.9	9512.8
17.5°	7558.4	7646.9	7859.9	8182.5	8478.9	8601.0	8730.6	8968.5	9187.7	9388.3	9560.1
20°	7356.6	7463.8	7725.3	8086.6	8393.0	8522.5	8660.8	8911.2	9141.6	9350.9	9529.0
22.5°	7126.2	7255.7	7563.4	7944.6	8256.0	8389.3	8532.5	8794.1	9033.2	9242.5	9415.7
25°	6872.1	7019.1	7360.4	7751.5	8062.9	8209.9	8346.9	8612.2	8842.7	9061.9	9238.8
27.5°	6604.3	6748.8	7112.5	7511.1	7817.5	7967.0	8109.0	8369.3	8602.3	8807.8	8988.4
30°	6281.7	6447.3	6824.8	7214.6	7541.0	7683.0	7810.0	8062.9	8298.3	8491.4	8639.6
32.5°	5955.3	6124.7	6514.6	6909.5	7208.4	7331.7	7470.0	7706.7	7919.7	8110.2	8265.9
35°	5607.8	5789.7	6153.4	6524.6	6814.8	6953.1	7091.3	7319.3	7508.6	7689.2	7843.7
37.5°	5236.6	5401.0	5784.7	6157.1	6413.7	6555.7	6674.0	6878.3	7086.3	7255.7	7380.3
40°	4843.0	5008.6	5389.8	5744.8	6008.9	6135.9	6228.1	6446.1	6636.7	6817.3	6916.9
42.5°	4438.2	4637.5	4992.5	5322.5	5565.4	5712.4	5784.7	6015.1	6187.0	6351.4	6462.3
45°	4038.3	4217.7	4576.4	4901.5	5154.4	5255.3	5358.7	5561.7	5754.8	5894.3	6006.4
47.5°	3629.7	3820.3	4175.3	4495.4	4734.6	4864.2	4981.2	5165.6	5342.5	5478.2	5590.4
50°	3232.4	3459.1	3811.6	4123.0	4360.9	4465.6	4583.9	4790.7	4956.3	5088.4	5171.8
52.5°	2917.2	3105.3	3474.0	3768.0	4012.1	4128.0	4227.6	4456.8	4617.5	4724.6	4795.6
55°	2552.3	2777.7	3134.0	3436.7	3698.3	3812.8	3931.2	4123.0	4275.0	4404.5	4471.8
57.5°	2242.1	2473.8	2837.5	3152.7	3414.2	3535.1	3654.7	3844.0	3997.2	4103.1	4162.9
60°	1956.9	2223.4	2580.9	2894.8	3165.1	3294.7	3405.5	3582.4	3728.1	3839.0	3880.1
62.5°	1715.2	1974.3	2348.0	2670.6	2949.6	3061.7	3168.9	3358.2	3507.7	3594.9	3627.3
65°	1508.4	1766.3	2138.7	2467.6	2746.6	2851.2	2962.1	3151.4	3286.0	3376.9	3399.3
67.5°	1295.4	1578.2	1954.4	2291.9	2554.8	2666.9	2772.8	2960.8	3096.6	3173.8	3186.3
70°	1127.3	1410.0	1792.4	2137.5	2382.9	2498.7	2602.1	2785.2	2911.0	2988.2	2987.0
72.5°	967.8	1256.8	1646.7	1973.1	2228.4	2339.3	2442.7	2625.8	2745.4	2796.4	2787.7
75°	832.1	1112.3	1515.9	1826.1	2077.7	2189.8	2299.4	2463.8	2564.7	2610.8	2604.6
77.5°	695.1	981.6	1387.6	1691.6	1936.9	2042.8	2146.2	2293.2	2397.8	2433.9	2412.8
80°	573.0	864.5	1254.3	1553.3	1793.7	1882.1	1975.6	2122.5	2204.8	2242.1	2227.2
82.5°	457.1	752.4	1124.8	1403.8	1623.0	1715.2	1804.9	1928.2	2005.5	2029.1	2003.0
85°	343.8	634.0	982.8	1240.6	1437.4	1527.1	1598.1	1715.2	1775.0	1793.7	1775.0
87.5°	239.2	515.7	832.1	1055.0	1226.9	1301.7	1361.5	1463.6	1510.9	1535.9	1523.4
90°	125.8	343.8	590.4	751.1	870.7	916.8	966.6	1036.4	1082.4	1104.9	1099.9
92.5°	122.1	260.3	463.4	609.1	721.2	773.5	832.1	920.5	970.3	1005.2	1007.7
95°	128.3	215.5	351.3	460.9	578.0	636.5	686.3	754.8	808.4	854.5	865.7
97.5°	125.8	221.7	321.4	413.5	483.3	520.7	574.2	657.7	707.5	737.4	742.4
100°	125.8	234.2	337.6	392.4	463.4	484.5	505.7	550.6	621.6	661.4	681.4
102.5°	124.6	239.2	365.0	396.1	450.9	484.5	500.7	523.2	549.3	585.4	621.6
105°	123.3	242.9	387.4	433.5	443.4	463.4	495.8	528.1	535.6	536.9	538.1
107.5°	122.1	230.4	397.4	508.2	468.4	472.1	482.1	523.2	545.6	540.6	530.6
110°	118.3	199.3	397.4	505.7	512.0	499.5	497.0	514.4	540.6	551.8	540.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	113.4	169.4	391.1	508.2	624.1	558.0	530.6	524.4	534.4	546.8	554.3
115°	105.9	138.3	387.4	508.2	622.8	687.6	596.7	551.8	543.1	544.3	546.8
117.5°	102.1	118.3	396.1	507.0	592.9	678.9	742.4	596.7	566.8	554.3	548.1
120°	98.4	109.6	373.7	500.7	594.2	629.0	722.5	700.0	606.6	576.7	561.8
122.5°	93.4	105.9	336.3	490.8	587.9	627.8	658.9	828.3	673.9	610.4	585.4
125°	89.7	100.9	284.0	490.8	576.7	619.1	654.0	772.3	869.4	667.7	616.6
127.5°	84.7	94.7	225.5	500.7	561.8	605.4	642.7	701.3	858.2	818.4	682.6
130°	78.5	89.7	169.4	463.4	548.1	587.9	626.5	690.1	767.3	909.3	835.8
132.5°	73.5	83.5	113.4	412.3	539.4	571.7	607.9	673.9	726.2	828.3	940.4
135°	67.3	77.2	89.7	351.3	550.6	558.0	589.2	656.4	710.0	751.1	867.0
137.5°	64.8	74.7	85.9	282.8	512.0	571.7	574.2	634.0	691.3	736.2	771.0
140°	62.3	72.2	83.5	191.8	450.9	540.6	587.9	612.8	668.9	715.0	753.6
142.5°	59.8	69.8	79.7	124.6	379.9	480.8	563.0	597.9	644.0	691.3	729.9
145°	59.8	68.5	78.5	92.2	300.2	408.6	497.0	610.4	621.6	662.7	705.0
147.5°	58.5	67.3	77.2	84.7	198.1	316.4	418.5	565.5	619.1	639.0	673.9
150°	58.5	66.0	76.0	83.5	127.1	216.7	327.6	488.3	605.4	626.5	646.5
152.5°	58.5	64.8	76.0	82.2	88.4	132.0	225.5	384.9	521.9	621.6	637.8
155°	58.5	63.5	74.7	81.0	87.2	90.9	127.1	289.0	421.0	533.1	616.6
157.5°	58.5	63.5	73.5	79.7	84.7	88.4	89.7	158.2	310.2	421.0	515.7
160°	58.5	62.3	71.0	78.5	82.2	85.9	88.4	95.9	164.4	298.9	389.9
162.5°	58.5	61.0	68.5	76.0	81.0	82.2	84.7	88.4	93.4	143.2	208.0
165°	58.5	59.8	66.0	73.5	78.5	79.7	81.0	84.7	88.4	90.9	108.4
167.5°	57.3	59.8	63.5	68.5	74.7	77.2	78.5	81.0	83.5	85.9	88.4
170°	57.3	58.5	61.0	64.8	68.5	71.0	73.5	76.0	78.5	79.7	81.0
172.5°	56.1	57.3	58.5	61.0	63.5	64.8	66.0	68.5	72.2	74.7	76.0
175°	56.1	56.1	56.1	57.3	58.5	58.5	59.8	61.0	62.3	64.8	66.0
177.5°	54.8	56.1	54.8	54.8	54.8	54.8	54.8	54.8	56.1	56.1	56.1
180°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4	8126.4
2.5°	8282.1	8294.6	8288.4	8327.0	8339.4	8328.2	8334.5	8346.9	8355.6	8360.6
5°	8645.9	8696.9	8731.8	8787.9	8801.6	8834.0	8850.1	8885.0	8909.9	8908.7
7.5°	9033.2	9101.8	9164.0	9218.8	9256.2	9274.9	9299.8	9347.1	9377.0	9382.0
10°	9322.2	9410.7	9486.7	9556.4	9603.7	9610.0	9672.3	9707.1	9739.5	9722.1
12.5°	9531.5	9624.9	9714.6	9811.8	9840.4	9870.3	9913.9	9966.2	9994.9	9991.1
15°	9658.6	9766.9	9870.3	9963.7	10001.1	10026.0	10084.6	10141.9	10166.8	10169.3
17.5°	9709.6	9825.5	9930.1	10031.0	10064.6	10093.3	10154.3	10207.9	10237.8	10242.7
20°	9679.7	9799.3	9907.7	10008.6	10039.7	10070.9	10131.9	10186.7	10219.1	10221.6
22.5°	9571.4	9689.7	9805.5	9899.0	9928.9	9963.7	10016.0	10070.9	10095.8	10097.0
25°	9384.5	9500.4	9603.7	9689.7	9720.8	9761.9	9813.0	9852.9	9881.5	9891.5
27.5°	9115.5	9226.3	9331.0	9400.7	9439.3	9473.0	9512.8	9572.6	9577.6	9582.6
30°	8770.4	8898.7	8994.6	9051.9	9076.8	9125.4	9152.8	9184.0	9226.3	9221.3
32.5°	8389.3	8508.8	8578.6	8669.5	8689.5	8714.4	8730.6	8769.2	8779.1	8784.1
35°	7960.8	8066.6	8119.0	8193.7	8231.1	8234.8	8254.7	8284.6	8284.6	8279.6
37.5°	7497.4	7608.3	7658.1	7688.0	7701.7	7719.1	7716.6	7732.8	7710.4	7725.3
40°	7044.0	7121.2	7134.9	7164.8	7178.5	7183.5	7173.5	7162.3	7134.9	7151.1
42.5°	6560.7	6615.5	6654.1	6640.4	6649.1	6639.2	6618.0	6584.4	6591.8	6596.8
45°	6084.9	6118.5	6117.2	6152.1	6117.2	6097.3	6076.1	6051.2	6040.0	6021.3
47.5°	5638.9	5653.9	5657.6	5638.9	5609.0	5624.0	5560.5	5543.0	5524.3	5525.6
50°	5207.9	5226.6	5220.4	5181.8	5156.9	5130.7	5093.3	5061.0	5041.0	5022.3
52.5°	4829.3	4823.0	4785.7	4762.0	4729.6	4715.9	4657.4	4642.4	4615.0	4603.8
55°	4489.2	4464.3	4425.7	4389.6	4348.5	4329.8	4293.7	4261.3	4235.1	4242.6
57.5°	4162.9	4134.2	4091.9	4038.3	4010.9	3991.0	3947.4	3929.9	3898.8	3900.0
60°	3872.6	3837.8	3785.4	3735.6	3709.5	3683.3	3650.9	3627.3	3607.3	3601.1
62.5°	3619.8	3579.9	3527.6	3476.5	3447.9	3426.7	3391.8	3365.7	3345.7	3344.5
65°	3383.1	3329.5	3268.5	3224.9	3203.7	3185.1	3158.9	3129.0	3115.3	3120.3
67.5°	3155.2	3105.3	3054.3	3008.2	2983.3	2972.1	2957.1	2935.9	2926.0	2929.7
70°	2949.6	2884.9	2846.2	2807.6	2790.2	2786.5	2764.0	2746.6	2741.6	2735.4
72.5°	2749.1	2696.8	2653.2	2619.5	2614.6	2603.3	2582.2	2577.2	2559.8	2556.0
75°	2562.2	2509.9	2472.6	2441.4	2436.4	2430.2	2415.3	2411.5	2395.3	2399.1
77.5°	2370.4	2328.1	2293.2	2273.3	2257.1	2250.8	2239.6	2230.9	2224.7	2222.2
80°	2169.9	2125.0	2093.9	2078.9	2070.2	2061.5	2055.3	2042.8	2036.6	2032.9
82.5°	1953.1	1918.3	1890.9	1880.9	1874.7	1879.6	1861.0	1859.7	1856.0	1849.7
85°	1743.9	1706.5	1680.3	1675.4	1671.6	1665.4	1662.9	1656.7	1654.2	1654.2
87.5°	1491.0	1458.6	1443.7	1452.4	1438.7	1447.4	1446.2	1438.7	1433.7	1451.1
90°	1082.4	1068.7	1061.3	1068.7	1072.5	1070.0	1068.7	1060.0	1066.3	1066.3
92.5°	1002.7	992.8	994.0	990.3	997.7	999.0	1002.7	999.0	1004.0	1002.7
95°	867.0	869.4	876.9	884.4	891.9	891.9	900.6	905.6	906.8	913.0
97.5°	739.9	736.2	753.6	762.3	758.6	764.8	769.8	779.8	782.3	774.8
100°	681.4	672.6	670.1	667.7	667.7	663.9	663.9	667.7	670.1	663.9
102.5°	626.5	631.5	631.5	629.0	629.0	630.3	631.5	634.0	636.5	634.0
105°	560.5	584.2	591.7	596.7	597.9	599.1	602.9	607.9	607.9	606.6
107.5°	523.2	509.5	528.1	548.1	555.5	561.8	573.0	579.2	581.7	580.5
110°	526.9	510.7	494.5	502.0	498.2	489.5	502.0	516.9	526.9	530.6





TEST NUMBER: P236410

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L840-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	539.4	521.9	512.0	502.0	497.0	493.3	490.8	493.3	492.0	487.0
115°	548.1	536.9	521.9	512.0	509.5	508.2	508.2	505.7	503.2	500.7
117.5°	544.3	539.4	535.6	528.1	526.9	524.4	519.4	515.7	510.7	508.2
120°	549.3	540.6	534.4	531.9	533.1	533.1	530.6	529.4	524.4	521.9
122.5°	566.8	550.6	541.8	538.1	535.6	534.4	531.9	529.4	524.4	521.9
125°	592.9	573.0	559.3	549.3	546.8	544.3	539.4	534.4	529.4	526.9
127.5°	630.3	604.1	587.9	574.2	569.2	563.0	555.5	545.6	540.6	538.1
130°	693.8	649.0	624.1	605.4	596.7	591.7	581.7	571.7	563.0	559.3
132.5°	883.1	726.2	678.9	647.7	641.5	630.3	615.3	604.1	594.2	590.4
135°	956.6	964.1	771.0	720.0	701.3	682.6	665.2	649.0	637.8	635.3
137.5°	880.7	957.9	1004.0	933.0	863.2	789.7	749.9	725.0	707.5	697.5
140°	786.0	858.2	942.9	985.3	1005.2	1016.4	1009.0	967.8	915.5	908.1
142.5°	764.8	789.7	813.4	900.6	929.2	951.7	975.3	990.3	999.0	999.0
145°	738.7	767.3	786.0	802.2	809.7	815.9	868.2	903.1	913.0	913.0
147.5°	711.3	736.2	759.8	777.3	786.0	793.5	799.7	804.7	803.4	802.2
150°	676.4	702.5	726.2	746.1	754.8	759.8	771.0	776.0	774.8	772.3
152.5°	645.2	668.9	691.3	707.5	717.5	725.0	733.7	741.1	742.4	741.1
155°	647.7	642.7	656.4	672.6	675.1	682.6	692.6	700.0	697.5	697.5
157.5°	587.9	635.3	654.0	646.5	645.2	647.7	651.5	657.7	657.7	654.0
160°	464.6	530.6	579.2	624.1	631.5	640.2	649.0	650.2	645.2	639.0
162.5°	318.9	371.2	437.2	485.8	502.0	519.4	543.1	560.5	566.8	559.3
165°	143.2	183.1	269.1	307.7	332.6	346.3	367.5	381.2	398.6	409.8
167.5°	89.7	93.4	109.6	120.8	133.3	145.7	154.5	165.7	175.6	194.3
170°	82.2	83.5	84.7	84.7	84.7	83.5	82.2	79.7	78.5	74.7
172.5°	77.2	77.2	77.2	76.0	77.2	76.0	74.7	72.2	67.3	63.5
175°	67.3	68.5	67.3	68.5	67.3	67.3	66.0	62.3	57.3	54.8
177.5°	56.1	56.1	56.1	54.8	53.6	52.3	51.1	47.3	43.6	39.9
180°	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1

(END OF REPORT)