

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: P236397

Luminaire Tested: **SKB4-LD5-30-N-UNV-L835-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236397  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB4-LD5-30-N-UNV-L835-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

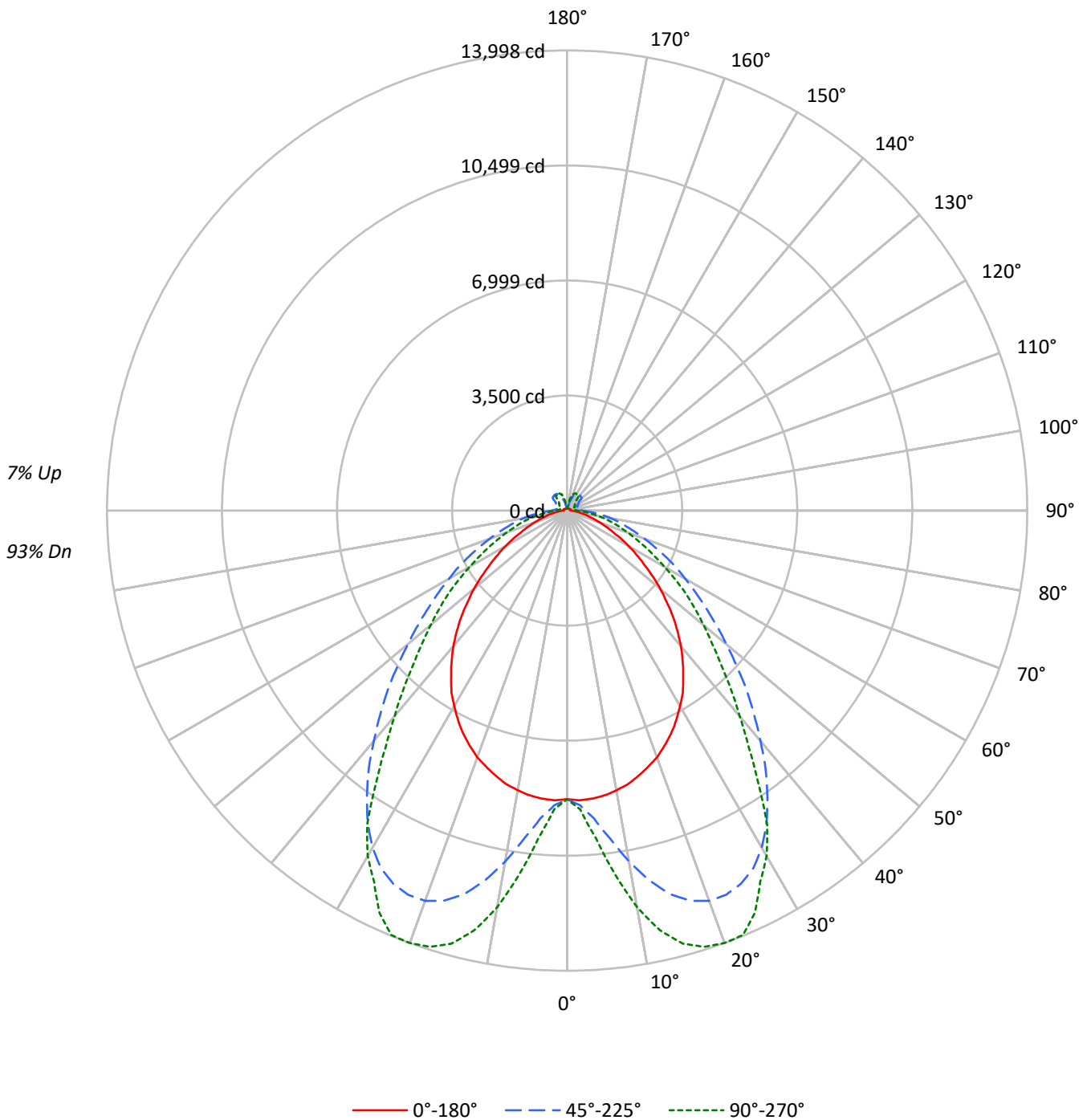
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32432.0 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.56 / 1.53  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: 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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66
3	90	80	72	66	87	78	71	65	74	68	63	70	65	61	67	63	59	57
4	83	71	63	57	80	70	62	56	66	60	54	63	57	53	60	55	51	49
5	76	64	55	49	74	63	55	49	60	53	47	57	51	46	55	49	45	43
6	71	58	49	43	68	57	49	43	54	47	42	52	46	41	50	44	40	38
7	66	53	44	38	64	51	44	38	49	42	37	47	41	36	45	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	36	32	30
9	57	44	36	31	55	43	36	31	42	35	30	40	34	30	39	33	29	27
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25

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

	0°	45°	90°
0°	12594	12594	12594
5°	12613	13410	14263
10°	12476	15474	17512
15°	12253	17403	19680
20°	11976	18515	20549
25°	11569	18813	20331
30°	11043	18389	18892
35°	10402	17221	16492
40°	9660	15621	13996
45°	8776	14051	12075
50°	7758	12404	10686
55°	6666	11044	9525
60°	5697	9912	8234
65°	4674	8963	7174
70°	3864	7992	6293
75°	3186	7242	5677
80°	2751	6753	4922
85°	2521	6088	4297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	935.9	2.9
10°-20°	3255.4	10.0
20°-30°	5312.0	16.4
30°-40°	5942.4	18.3
40°-50°	5258.3	16.2
50°-60°	4072.4	12.6
60°-70°	2811.6	8.7
70°-80°	1748.3	5.4
80°-90°	868.1	2.7
90°-100°	361.2	1.1
100°-110°	302.4	0.9
110°-120°	332.6	1.0
120°-130°	345.2	1.1
130°-140°	338.0	1.0
140°-150°	291.8	0.9
150°-160°	184.6	0.6
160°-170°	64.9	0.2
170°-180°	6.9	0.0
0°-30°	9503.3	29.3
0°-40°	15445.8	47.6
0°-60°	24776.5	76.4
0°-90°	30204.5	93.1
90°-120°	996.2	3.1
90°-150°	1971.1	6.1
90°-180°	2228.0	6.9
0°-180°	32432.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8775	8775	8775	8775	8775	
5°	8795	8994	9402	9766	9996	834
15°	8361	9826	12075	13267	13639	2356
25°	7483	10113	12520	13415	13504	3438
35°	6154	8934	10623	10426	10146	3845
45°	4549	6792	7722	7089	6610	3495
55°	2862	4609	5141	4698	4411	2580
65°	1530	2986	3292	2872	2616	1543
75°	686	1961	1868	1646	1448	746
85°	244	1084	857	685	592	238
90°	98	624	470	379	321	64
95°	106	446	349	272	242	88
105°	110	415	267	234	219	117
115°	98	559	349	264	238	98
125°	87	581	426	316	287	78
135°	70	523	589	405	352	55
145°	64	405	602	580	553	40
155°	64	181	519	575	575	30
165°	65	73	210	350	398	18
175°	64	64	65	67	57	6
180°	62	62	62	62	62	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	8821.8	8803.5	8804.7	8830.3	8843.8	8837.6	8857.2	8885.3	8919.5	8959.8	8974.4
5°	8794.9	8786.4	8824.2	8902.4	8967.1	8994.0	9033.0	9121.0	9216.2	9290.7	9401.8
7.5°	8737.5	8746.1	8835.2	8963.4	9095.3	9155.2	9226.0	9386.0	9618.0	9825.6	10074.7
10°	8639.8	8675.2	8826.7	9011.1	9217.4	9338.3	9476.3	9799.9	10178.5	10505.8	10834.3
12.5°	8527.5	8588.5	8777.8	9031.8	9376.2	9570.4	9796.3	10256.7	10709.7	11113.9	11512.0
15°	8361.4	8472.5	8709.4	9051.4	9554.5	9825.6	10099.1	10629.1	11167.7	11675.7	12075.0
17.5°	8177.0	8326.0	8608.1	9079.4	9702.2	10008.8	10311.6	10916.1	11535.2	12021.3	12441.3
20°	7990.2	8141.6	8473.7	9079.4	9780.4	10122.3	10456.9	11132.2	11725.7	12227.6	12631.8
22.5°	7739.8	7949.9	8321.1	9033.0	9792.6	10160.2	10526.5	11183.5	11784.3	12250.8	12646.5
25°	7483.4	7684.9	8147.7	8918.2	9718.1	10112.6	10463.0	11118.8	11690.3	12143.4	12519.5
27.5°	7189.1	7402.8	7923.0	8744.8	9564.2	9942.8	10289.6	10916.1	11485.2	11919.9	12261.8
30°	6864.2	7101.1	7667.8	8489.6	9305.4	9671.7	10013.6	10609.6	11150.6	11534.0	11835.6
32.5°	6550.4	6759.2	7352.7	8181.9	8976.9	9327.3	9646.1	10226.1	10702.4	11044.3	11282.4
35°	6153.5	6375.8	7001.0	7821.6	8580.0	8934.1	9196.7	9735.2	10172.4	10441.1	10623.0
37.5°	5776.2	5976.4	6605.3	7419.9	8124.5	8429.8	8710.6	9200.3	9582.6	9825.6	9917.2
40°	5381.7	5563.7	6181.6	6949.7	7615.3	7898.6	8162.3	8610.5	8946.3	9119.7	9145.4
42.5°	4964.1	5122.8	5738.3	6450.2	7079.2	7353.9	7615.3	7995.0	8283.2	8443.2	8415.1
45°	4548.9	4674.7	5277.9	5947.1	6533.3	6792.2	7002.2	7363.7	7626.2	7714.2	7721.5
47.5°	4098.3	4237.5	4806.5	5453.8	6002.1	6221.9	6408.7	6756.8	6968.0	7024.2	6991.2
50°	3690.4	3813.7	4336.4	4933.5	5455.0	5638.2	5838.4	6160.8	6312.3	6370.9	6319.6
52.5°	3271.5	3402.2	3891.9	4443.9	4904.2	5133.8	5284.0	5574.7	5699.2	5731.0	5711.4
55°	2862.4	3015.1	3476.7	3976.1	4426.8	4608.7	4794.3	5036.1	5143.6	5138.7	5141.1
57.5°	2501.0	2626.7	3073.7	3556.1	3984.7	4139.8	4305.9	4508.6	4609.9	4634.4	4631.9
60°	2163.9	2288.5	2720.8	3149.4	3564.6	3730.7	3861.4	4029.9	4119.0	4137.3	4143.4
62.5°	1835.4	1974.6	2383.7	2806.3	3194.6	3352.1	3466.9	3628.1	3684.3	3696.5	3733.1
65°	1530.1	1692.5	2084.5	2503.4	2851.4	2985.8	3087.1	3222.7	3285.0	3322.8	3292.3
67.5°	1273.7	1448.3	1833.0	2243.3	2560.8	2684.1	2777.0	2882.0	2935.7	2941.8	2873.4
70°	1052.7	1239.5	1610.7	1995.4	2300.7	2413.0	2497.3	2581.6	2571.8	2535.2	2508.3
72.5°	856.0	1052.7	1434.9	1792.7	2074.8	2174.9	2243.3	2293.4	2239.6	2215.2	2174.9
75°	686.3	895.1	1283.5	1620.5	1875.7	1961.2	1994.2	1985.6	1950.2	1913.6	1868.4
77.5°	544.6	762.0	1138.1	1463.0	1687.7	1741.4	1757.3	1725.5	1676.7	1642.5	1598.5
80°	431.1	654.6	1017.2	1318.9	1477.6	1515.5	1525.2	1481.3	1428.8	1399.5	1351.8
82.5°	328.5	559.3	901.2	1152.8	1278.6	1301.8	1295.7	1246.8	1204.1	1150.3	1102.7
85°	244.2	468.9	776.7	978.2	1068.5	1084.4	1069.7	1018.5	973.3	919.5	857.3
87.5°	171.0	384.7	636.2	790.1	860.9	859.7	842.6	797.4	743.7	696.1	647.2
90°	97.7	273.5	467.7	570.3	620.4	624.0	610.6	571.5	539.8	511.7	470.2
92.5°	100.1	208.8	354.1	466.5	522.7	528.8	527.5	501.9	467.7	433.5	403.0
95°	106.2	173.4	276.0	366.4	428.6	445.7	453.1	438.4	412.8	382.2	349.3
97.5°	109.9	182.0	271.1	334.6	371.2	382.2	393.2	385.9	366.4	340.7	313.8
100°	113.6	200.3	291.9	345.6	370.0	370.0	363.9	349.3	337.0	317.5	293.1
102.5°	113.6	208.8	321.2	368.8	390.8	388.3	383.4	348.0	313.8	301.6	283.3
105°	109.9	212.5	349.3	409.1	414.0	415.2	405.4	376.1	334.6	299.2	267.4
107.5°	109.9	208.8	360.2	434.7	444.5	437.2	429.9	399.3	359.0	324.8	287.0
110°	107.5	205.2	365.1	468.9	494.6	468.9	453.1	422.5	382.2	343.2	313.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	102.6	191.7	361.5	478.7	525.1	515.3	486.0	443.3	403.0	363.9	330.9
115°	97.7	172.2	350.5	479.9	545.9	559.3	552.0	471.4	422.5	383.4	349.3
117.5°	95.3	156.3	345.6	479.9	560.5	575.2	582.5	512.9	445.7	400.5	367.6
120°	92.8	136.8	334.6	475.0	561.7	586.2	595.9	588.6	478.7	421.3	382.2
122.5°	90.4	118.5	322.4	466.5	558.1	586.2	604.5	604.5	543.4	448.2	400.5
125°	86.7	106.2	290.6	450.6	550.8	581.3	603.3	615.5	594.7	494.6	426.2
127.5°	83.0	94.0	266.2	437.2	539.8	572.7	595.9	616.7	610.6	576.4	465.3
130°	79.4	83.0	235.7	426.2	523.9	559.3	586.2	614.3	611.8	602.0	561.7
132.5°	74.5	76.9	200.3	401.8	501.9	543.4	572.7	606.9	615.5	598.4	598.4
135°	69.6	70.8	162.4	350.5	482.4	522.7	558.1	597.2	613.0	606.9	588.6
137.5°	67.2	68.4	127.0	310.2	477.5	500.7	536.1	586.2	608.1	610.6	599.6
140°	65.9	65.9	101.4	274.8	449.4	492.1	512.9	569.1	598.4	608.1	604.5
142.5°	64.7	64.7	84.3	235.7	381.0	472.6	501.9	547.1	586.2	603.3	605.7
145°	63.5	64.7	74.5	189.3	332.2	405.4	489.7	521.4	566.6	592.3	602.0
147.5°	63.5	64.7	72.0	140.4	287.0	341.9	414.0	512.9	539.8	575.2	593.5
150°	63.5	63.5	70.8	100.1	236.9	298.0	350.5	482.4	516.6	549.5	574.0
152.5°	63.5	63.5	69.6	83.0	180.7	245.5	299.2	392.0	506.8	520.2	543.4
155°	63.5	63.5	68.4	75.7	122.1	180.7	243.0	327.3	411.5	508.0	519.0
157.5°	64.7	64.7	67.2	73.3	90.4	119.7	172.2	269.9	337.0	415.2	492.1
160°	64.7	64.7	65.9	72.0	78.2	86.7	106.2	189.3	271.1	324.8	381.0
162.5°	64.7	64.7	65.9	69.6	74.5	76.9	81.8	114.8	189.3	262.6	305.3
165°	64.7	64.7	64.7	67.2	72.0	73.3	75.7	83.0	105.0	153.9	210.0
167.5°	64.7	64.7	64.7	65.9	68.4	70.8	72.0	75.7	79.4	85.5	105.0
170°	64.7	64.7	64.7	64.7	65.9	67.2	68.4	70.8	73.3	74.5	76.9
172.5°	63.5	64.7	63.5	63.5	63.5	64.7	64.7	65.9	67.2	68.4	69.6
175°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	64.7
177.5°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	62.3	62.3
180°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4	8775.4
2.5°	8998.8	9007.4	9011.1	9051.4	9055.0	9050.1	9056.2	9097.8	9099.0	9099.0
5°	9467.8	9556.9	9661.9	9736.4	9765.7	9776.7	9864.7	9907.4	9918.4	9996.5
7.5°	10311.6	10437.4	10592.5	10728.0	10806.2	10851.4	10933.2	11034.5	11077.3	11164.0
10°	11117.6	11367.9	11571.9	11746.5	11863.7	11908.9	12020.0	12151.9	12247.2	12252.1
12.5°	11847.8	12149.5	12386.4	12603.8	12672.1	12752.7	12884.6	12976.2	13061.7	13083.7
15°	12437.7	12714.9	12962.8	13181.4	13266.9	13325.5	13458.6	13557.5	13607.6	13639.3
17.5°	12807.7	13076.3	13307.2	13502.5	13569.7	13638.1	13750.4	13835.9	13892.1	13911.6
20°	12956.7	13214.3	13426.8	13611.2	13677.2	13735.8	13843.2	13928.7	13982.5	13998.3
22.5°	12954.2	13192.4	13407.3	13580.7	13649.1	13715.0	13822.5	13898.2	13950.7	13973.9
25°	12808.9	13049.5	13242.4	13378.0	13414.6	13453.7	13506.2	13514.8	13545.3	13503.8
27.5°	12518.3	12725.9	12821.1	12855.3	12850.4	12840.7	12805.2	12772.3	12767.4	12724.7
30°	12033.5	12154.4	12197.1	12167.8	12178.8	12105.5	12092.1	12072.5	12106.7	12131.2
32.5°	11409.4	11466.8	11407.0	11371.6	11347.2	11333.7	11342.3	11345.9	11335.0	11320.3
35°	10675.5	10621.8	10553.4	10447.2	10426.4	10384.9	10312.8	10260.3	10217.6	10145.5
37.5°	9884.2	9798.7	9726.7	9597.2	9511.7	9472.7	9321.2	9213.8	9106.3	9072.1
40°	9091.7	8989.1	8899.9	8754.6	8685.0	8606.8	8405.4	8318.6	8227.1	8167.2
42.5°	8351.6	8274.7	8137.9	7981.6	7853.4	7756.9	7598.2	7483.4	7417.4	7374.7
45°	7628.7	7529.8	7357.6	7189.1	7088.9	6991.2	6843.5	6740.9	6645.6	6610.2
47.5°	6946.0	6810.5	6672.5	6496.7	6388.0	6311.0	6212.1	6091.2	6015.5	5978.9
50°	6251.2	6148.6	6000.9	5833.6	5771.3	5690.7	5574.7	5488.0	5429.3	5419.6
52.5°	5639.4	5547.8	5415.9	5263.3	5186.3	5146.0	5034.9	4958.0	4925.0	4901.8
55°	5088.6	5008.0	4874.9	4757.7	4697.9	4653.9	4555.0	4482.9	4457.3	4410.9
57.5°	4570.9	4513.5	4418.2	4294.9	4254.6	4189.9	4077.5	4001.8	3929.7	3896.8
60°	4117.8	4049.4	3938.3	3829.6	3752.7	3684.3	3573.2	3497.4	3423.0	3420.5
62.5°	3685.5	3593.9	3464.5	3335.0	3282.5	3237.3	3120.1	3041.9	2999.2	2995.5
65°	3219.0	3133.5	3026.1	2933.3	2872.2	2830.7	2767.2	2685.4	2634.1	2615.8
67.5°	2803.8	2739.1	2653.6	2573.0	2530.3	2492.4	2398.4	2333.7	2282.4	2268.9
70°	2452.1	2393.5	2325.1	2233.5	2195.7	2152.9	2074.8	2005.2	1956.3	1957.5
72.5°	2127.3	2074.8	2011.3	1930.7	1891.6	1864.7	1792.7	1742.6	1698.7	1685.2
75°	1826.9	1781.7	1742.6	1674.2	1646.1	1612.0	1544.8	1498.4	1464.2	1448.3
77.5°	1568.0	1535.0	1478.8	1412.9	1390.9	1347.0	1287.1	1243.2	1209.0	1207.7
80°	1305.4	1255.4	1209.0	1149.1	1122.3	1093.0	1034.3	996.5	972.1	970.8
82.5°	1051.4	1008.7	963.5	907.3	889.0	867.0	831.6	795.0	777.9	760.8
85°	823.1	782.8	744.9	708.3	685.1	672.9	636.2	621.6	594.7	592.3
87.5°	613.0	583.7	565.4	532.4	521.4	512.9	489.7	467.7	459.2	448.2
90°	439.6	415.2	401.8	381.0	378.6	366.4	356.6	340.7	327.3	321.2
92.5°	373.7	348.0	333.4	317.5	310.2	306.5	293.1	282.1	277.2	271.1
95°	322.4	301.6	288.2	277.2	272.3	267.4	258.9	252.8	245.5	241.8
97.5°	288.2	272.3	261.3	251.6	247.9	245.5	238.1	232.0	227.1	223.5
100°	271.1	255.2	245.5	238.1	233.2	230.8	224.7	219.8	216.1	213.7
102.5°	263.8	249.1	240.6	234.5	232.0	228.4	223.5	219.8	216.1	213.7
105°	258.9	249.1	240.6	235.7	234.5	232.0	227.1	224.7	222.3	218.6
107.5°	258.9	235.7	230.8	235.7	235.7	233.2	229.6	227.1	224.7	222.3
110°	282.1	257.7	241.8	228.4	222.3	218.6	214.9	217.4	219.8	216.1





TEST NUMBER: P236397

CATALOG NUMBER: SKB4-LD5-30-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	304.1	280.9	261.3	245.5	240.6	235.7	233.2	230.8	225.9	224.7
115°	319.9	294.3	279.6	268.7	263.8	260.1	252.8	246.7	243.0	238.1
117.5°	337.0	310.2	290.6	277.2	273.5	271.1	267.4	263.8	260.1	257.7
120°	352.9	326.1	305.3	291.9	287.0	282.1	277.2	271.1	266.2	262.6
122.5°	366.4	341.9	321.2	305.3	301.6	296.7	289.4	283.3	277.2	274.8
125°	387.1	357.8	335.8	321.2	316.3	312.6	304.1	298.0	290.6	287.0
127.5°	410.3	378.6	355.4	337.0	330.9	324.8	316.3	309.0	302.9	300.4
130°	453.1	405.4	377.3	356.6	349.3	343.2	333.4	323.6	316.3	313.8
132.5°	553.2	461.6	407.9	381.0	372.5	361.5	350.5	340.7	332.2	329.7
135°	595.9	550.8	520.2	423.7	405.4	394.4	373.7	362.7	351.7	351.7
137.5°	581.3	586.2	574.0	536.1	526.3	514.1	440.8	403.0	388.3	384.7
140°	594.7	577.6	564.2	586.2	581.3	572.7	531.2	517.8	509.2	504.3
142.5°	600.8	592.3	578.8	565.4	561.7	556.9	565.4	574.0	574.0	570.3
145°	603.3	598.4	592.3	583.7	580.1	575.2	569.1	561.7	555.6	553.2
147.5°	599.6	599.6	595.9	592.3	588.6	586.2	580.1	575.2	569.1	566.6
150°	589.8	595.9	595.9	595.9	594.7	593.5	587.4	581.3	577.6	575.2
152.5°	567.8	581.3	588.6	591.0	592.3	594.7	594.7	593.5	589.8	587.4
155°	534.9	553.2	565.4	572.7	575.2	576.4	580.1	578.8	577.6	575.2
157.5°	517.8	517.8	534.9	549.5	552.0	555.6	559.3	559.3	555.6	554.4
160°	450.6	503.1	517.8	512.9	514.1	517.8	523.9	528.8	532.4	528.8
162.5°	340.7	377.3	423.7	468.9	483.6	494.6	512.9	511.7	508.0	506.8
165°	257.7	298.0	318.7	337.0	350.5	360.2	377.3	392.0	396.9	398.1
167.5°	146.5	179.5	213.7	240.6	251.6	266.2	272.3	285.8	289.4	283.3
170°	80.6	87.9	96.5	109.9	112.3	122.1	133.1	153.9	157.5	147.8
172.5°	72.0	73.3	74.5	75.7	75.7	75.7	75.7	75.7	72.0	68.4
175°	64.7	65.9	65.9	67.2	67.2	67.2	65.9	63.5	59.8	57.4
177.5°	62.3	62.3	62.3	62.3	62.3	62.3	61.1	57.4	53.7	51.3
180°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3

(END OF REPORT)