

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: P236402

Luminaire Tested: **SKB4-LD5-36-N-UNV-L850-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236402  
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-LD5-36-N-UNV-L850-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

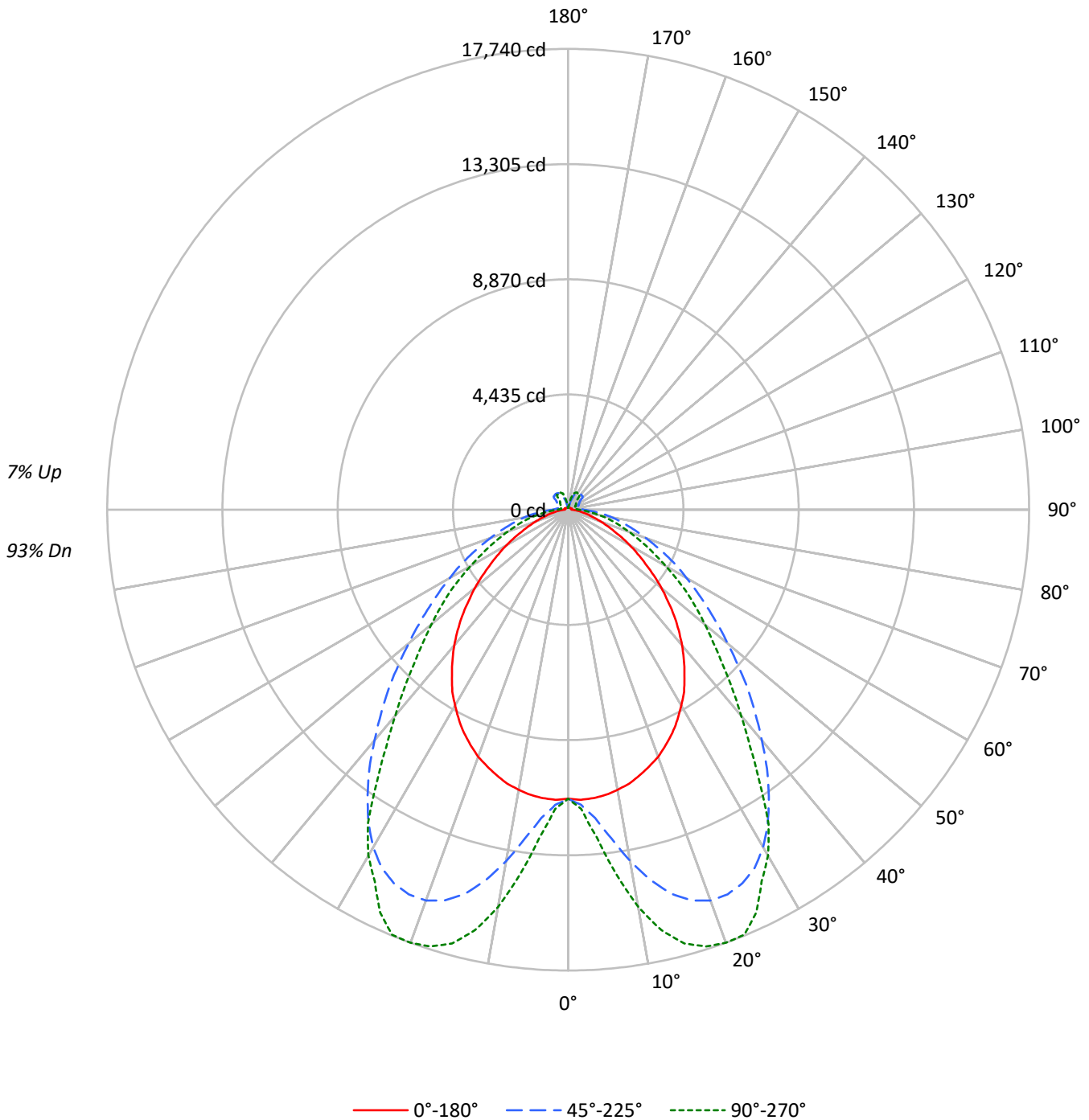
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41101.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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): 333.5  
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°	15961	15961	15961
5°	15985	16994	18076
10°	15811	19610	22193
15°	15528	22055	24940
20°	15178	23464	26041
25°	14662	23842	25765
30°	13995	23304	23942
35°	13182	21824	20901
40°	12243	19797	17738
45°	11121	17806	15302
50°	9832	15720	13542
55°	8448	13996	12071
60°	7220	12562	10434
65°	5923	11358	9091
70°	4897	10128	7975
75°	4038	9177	7194
80°	3486	8558	6238
85°	3195	7714	5445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1186.0	2.9
10°-20°	4125.6	10.0
20°-30°	6731.9	16.4
30°-40°	7530.8	18.3
40°-50°	6663.8	16.2
50°-60°	5161.0	12.6
60°-70°	3563.2	8.7
70°-80°	2215.6	5.4
80°-90°	1100.1	2.7
90°-100°	457.8	1.1
100°-110°	383.2	0.9
110°-120°	421.5	1.0
120°-130°	437.4	1.1
130°-140°	428.4	1.0
140°-150°	369.7	0.9
150°-160°	234.0	0.6
160°-170°	82.2	0.2
170°-180°	8.7	0.0
0°-30°	12043.6	29.3
0°-40°	19574.4	47.6
0°-60°	31399.2	76.4
0°-90°	38278.1	93.1
90°-120°	1262.4	3.1
90°-150°	2498.0	6.1
90°-180°	2823.0	6.9
0°-180°	41101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11121	11121	11121	11121	11121	
5°	11146	11398	11915	12376	12669	###
15°	10596	12452	15303	16813	17285	2986
25°	9484	12816	15866	17000	17113	4357
35°	7798	11322	13462	13213	12857	4873
45°	5765	8608	9785	8984	8377	4430
55°	3628	5841	6515	5954	5590	3270
65°	1939	3784	4172	3640	3315	1956
75°	870	2485	2368	2086	1835	945
85°	310	1374	1086	868	751	301
90°	124	791	596	480	407	81
95°	135	565	443	345	306	111
105°	139	526	339	297	277	149
115°	124	709	443	334	302	125
125°	110	737	540	401	364	99
135°	88	662	746	514	446	70
145°	80	514	763	735	701	51
155°	80	229	658	729	729	37
165°	82	93	266	444	504	23
175°	80	80	82	85	73	8
180°	79	79	79	79	79	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0
2.5°	11179.8	11156.6	11158.1	11190.6	11207.7	11199.9	11224.7	11260.3	11303.6	11354.7	11373.3
5°	11145.8	11134.9	11182.9	11282.0	11364.0	11398.0	11447.5	11559.0	11679.7	11774.1	11914.9
7.5°	11073.0	11083.9	11196.8	11359.3	11526.5	11602.3	11692.1	11894.8	12188.8	12451.9	12767.6
10°	10949.2	10994.1	11186.0	11419.7	11681.2	11834.4	12009.3	12419.4	12899.2	13313.9	13730.2
12.5°	10806.8	10884.2	11124.1	11446.0	11882.4	12128.5	12414.8	12998.2	13572.4	14084.6	14589.2
15°	10596.4	10737.2	11037.4	11470.8	12108.4	12451.9	12798.6	13470.3	14152.7	14796.5	15302.6
17.5°	10362.7	10551.5	10909.0	11506.4	12295.6	12684.1	13067.9	13833.9	14618.6	15234.5	15766.9
20°	10125.9	10317.8	10738.7	11506.4	12394.7	12828.0	13252.0	14107.9	14860.0	15496.0	16008.3
22.5°	9808.6	10074.8	10545.3	11447.5	12410.1	12876.0	13340.3	14172.9	14934.3	15525.5	16026.9
25°	9483.7	9739.0	10325.5	11302.1	12315.7	12815.6	13259.8	14090.8	14815.1	15389.3	15865.9
27.5°	9110.7	9381.5	10040.8	11082.3	12120.7	12600.5	13040.0	13833.9	14555.1	15106.1	15539.4
30°	8699.0	8999.3	9717.3	10758.9	11792.7	12256.9	12690.3	13445.5	14131.1	14617.0	14999.3
32.5°	8301.3	8565.9	9318.1	10368.9	11376.4	11820.5	12224.4	12959.5	13563.1	13996.4	14298.2
35°	7798.3	8080.0	8872.4	9912.3	10873.4	11322.2	11654.9	12337.4	12891.5	13231.9	13462.5
37.5°	7320.1	7573.9	8370.9	9403.2	10296.1	10683.0	11039.0	11659.6	12144.0	12451.9	12568.0
40°	6820.2	7050.8	7833.9	8807.4	9650.8	10009.8	10344.1	10912.1	11337.7	11557.4	11589.9
42.5°	6291.0	6492.2	7272.1	8174.4	8971.4	9319.6	9650.8	10132.1	10497.3	10700.1	10664.5
45°	5764.8	5924.2	6688.7	7536.8	8279.6	8607.7	8873.9	9332.0	9664.7	9776.1	9785.4
47.5°	5193.7	5370.1	6091.3	6911.6	7606.4	7885.0	8121.8	8562.8	8830.6	8901.8	8860.0
50°	4676.8	4833.1	5495.5	6252.3	6913.1	7145.2	7399.0	7807.6	7999.5	8073.8	8008.8
52.5°	4146.0	4311.6	4932.2	5631.7	6215.1	6506.1	6696.4	7064.8	7222.6	7262.9	7238.1
55°	3627.6	3821.0	4406.0	5039.0	5610.0	5840.6	6075.9	6382.3	6518.5	6512.3	6515.4
57.5°	3169.5	3328.9	3895.3	4506.6	5049.8	5246.3	5456.8	5713.7	5842.2	5873.1	5870.0
60°	2742.3	2900.2	3448.0	3991.2	4517.4	4727.9	4893.5	5107.1	5220.0	5243.2	5251.0
62.5°	2326.0	2502.5	3020.9	3556.4	4048.5	4248.1	4393.6	4597.9	4669.1	4684.6	4731.0
65°	1939.1	2145.0	2641.7	3172.6	3613.6	3783.9	3912.3	4084.1	4163.0	4211.0	4172.3
67.5°	1614.1	1835.4	2322.9	2842.9	3245.3	3401.6	3519.2	3652.3	3720.4	3728.2	3641.5
70°	1334.0	1570.8	2041.3	2528.8	2915.7	3058.0	3164.8	3271.6	3259.2	3212.8	3178.8
72.5°	1084.9	1334.0	1818.4	2271.9	2629.4	2756.3	2842.9	2906.4	2838.3	2807.3	2756.3
75°	869.7	1134.4	1626.5	2053.7	2377.1	2485.4	2527.2	2516.4	2471.5	2425.1	2367.8
77.5°	690.2	965.7	1442.4	1854.0	2138.8	2206.9	2227.0	2186.7	2124.8	2081.5	2025.8
80°	546.3	829.5	1289.1	1671.4	1872.6	1920.6	1932.9	1877.2	1810.7	1773.5	1713.2
82.5°	416.3	708.8	1142.1	1460.9	1620.3	1649.7	1642.0	1580.1	1525.9	1457.8	1397.5
85°	309.5	594.3	984.3	1239.6	1354.1	1374.3	1355.7	1290.7	1233.4	1165.3	1086.4
87.5°	216.7	487.5	806.3	1001.3	1091.1	1089.5	1067.8	1010.6	942.5	882.1	820.2
90°	123.8	346.7	592.7	722.7	786.2	790.8	773.8	724.3	684.0	648.4	595.8
92.5°	126.9	264.6	448.8	591.2	662.4	670.1	668.6	636.1	592.7	549.4	510.7
95°	134.6	219.8	349.8	464.3	543.2	564.9	574.2	555.6	523.1	484.4	442.6
97.5°	139.3	230.6	343.6	424.0	470.5	484.4	498.3	489.0	464.3	431.8	397.7
100°	143.9	253.8	369.9	438.0	468.9	468.9	461.2	442.6	427.1	402.4	371.4
102.5°	143.9	264.6	407.0	467.4	495.2	492.1	485.9	441.1	397.7	382.3	359.0
105°	139.3	269.3	442.6	518.4	524.6	526.2	513.8	476.7	424.0	379.2	338.9
107.5°	139.3	264.6	456.5	550.9	563.3	554.0	544.8	506.1	455.0	411.7	363.7
110°	136.2	260.0	462.7	594.3	626.8	594.3	574.2	535.5	484.4	434.9	397.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	130.0	243.0	458.1	606.7	665.5	653.1	615.9	561.8	510.7	461.2	419.4
115°	123.8	218.2	444.2	608.2	691.8	708.8	699.5	597.4	535.5	485.9	442.6
117.5°	120.7	198.1	438.0	608.2	710.3	728.9	738.2	650.0	564.9	507.6	465.8
120°	117.6	173.3	424.0	602.0	711.9	742.8	755.2	745.9	606.7	533.9	484.4
122.5°	114.5	150.1	408.6	591.2	707.3	742.8	766.1	766.1	688.7	568.0	507.6
125°	109.9	134.6	368.3	571.1	698.0	736.7	764.5	780.0	753.7	626.8	540.1
127.5°	105.2	119.2	337.4	554.0	684.0	725.8	755.2	781.5	773.8	730.5	589.6
130°	100.6	105.2	298.7	540.1	663.9	708.8	742.8	778.4	775.3	763.0	711.9
132.5°	94.4	97.5	253.8	509.2	636.1	688.7	725.8	769.2	780.0	758.3	758.3
135°	88.2	89.8	205.8	444.2	611.3	662.4	707.3	756.8	776.9	769.2	745.9
137.5°	85.1	86.7	160.9	393.1	605.1	634.5	679.4	742.8	770.7	773.8	759.9
140°	83.6	83.6	128.5	348.2	569.5	623.7	650.0	721.2	758.3	770.7	766.1
142.5°	82.0	82.0	106.8	298.7	482.8	598.9	636.1	693.3	742.8	764.5	767.6
145°	80.5	82.0	94.4	239.9	420.9	513.8	620.6	660.8	718.1	750.6	763.0
147.5°	80.5	82.0	91.3	178.0	363.7	433.3	524.6	650.0	684.0	728.9	752.1
150°	80.5	80.5	89.8	126.9	300.2	377.6	444.2	611.3	654.6	696.4	727.4
152.5°	80.5	80.5	88.2	105.2	229.0	311.1	379.2	496.8	642.3	659.3	688.7
155°	80.5	80.5	86.7	96.0	154.8	229.0	308.0	414.8	521.5	643.8	657.7
157.5°	82.0	82.0	85.1	92.9	114.5	151.7	218.2	342.0	427.1	526.2	623.7
160°	82.0	82.0	83.6	91.3	99.0	109.9	134.6	239.9	343.6	411.7	482.8
162.5°	82.0	82.0	83.6	88.2	94.4	97.5	103.7	145.5	239.9	332.7	386.9
165°	82.0	82.0	82.0	85.1	91.3	92.9	96.0	105.2	133.1	195.0	266.2
167.5°	82.0	82.0	82.0	83.6	86.7	89.8	91.3	96.0	100.6	108.3	133.1
170°	82.0	82.0	82.0	82.0	83.6	85.1	86.7	89.8	92.9	94.4	97.5
172.5°	80.5	82.0	80.5	80.5	80.5	82.0	82.0	83.6	85.1	86.7	88.2
175°	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	82.0
177.5°	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	78.9	78.9
180°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0	11121.0
2.5°	11404.2	11415.0	11419.7	11470.8	11475.4	11469.2	11477.0	11529.6	11531.1	11531.1
5°	11998.5	12111.5	12244.6	12339.0	12376.1	12390.0	12501.5	12555.6	12569.6	12668.6
7.5°	13067.9	13227.3	13423.8	13595.6	13694.7	13751.9	13855.6	13984.1	14038.2	14148.1
10°	14089.3	14406.5	14665.0	14886.3	15034.9	15092.1	15233.0	15400.1	15520.8	15527.0
12.5°	15014.7	15397.0	15697.2	15972.7	16059.4	16161.5	16328.7	16444.7	16553.1	16580.9
15°	15762.2	16113.5	16427.7	16704.7	16813.1	16887.3	17056.0	17181.4	17244.8	17285.1
17.5°	16231.2	16571.6	16864.1	17111.7	17196.9	17283.5	17425.9	17534.2	17605.4	17630.2
20°	16420.0	16746.5	17015.8	17249.5	17333.0	17407.3	17543.5	17651.8	17719.9	17740.1
22.5°	16416.9	16718.6	16991.0	17210.8	17297.4	17381.0	17517.2	17613.2	17679.7	17709.1
25°	16232.7	16537.6	16782.1	16953.9	17000.3	17049.8	17116.4	17127.2	17165.9	17113.3
27.5°	15864.4	16127.5	16248.2	16291.5	16285.3	16272.9	16228.1	16186.3	16180.1	16125.9
30°	15250.0	15403.2	15457.4	15420.2	15434.1	15341.3	15324.3	15299.5	15342.8	15373.8
32.5°	14459.2	14531.9	14456.1	14411.2	14380.2	14363.2	14374.0	14378.7	14364.8	14346.2
35°	13529.1	13461.0	13374.3	13239.7	13213.3	13160.7	13069.4	13002.9	12948.7	12857.4
37.5°	12526.2	12417.9	12326.6	12162.5	12054.2	12004.7	11812.8	11676.6	11540.4	11497.1
40°	11521.8	11391.8	11278.9	11094.7	11006.5	10907.4	10652.1	10542.2	10426.1	10350.3
42.5°	10584.0	10486.5	10313.2	10115.1	9952.6	9830.3	9629.1	9483.7	9400.1	9345.9
45°	9667.8	9542.5	9324.2	9110.7	8983.8	8860.0	8672.7	8542.7	8422.0	8377.1
47.5°	8802.7	8630.9	8456.0	8233.2	8095.5	7998.0	7872.6	7719.4	7623.4	7577.0
50°	7922.1	7792.1	7604.9	7392.9	7313.9	7211.8	7064.8	6954.9	6880.6	6868.2
52.5°	7146.8	7030.7	6863.6	6670.1	6572.6	6521.6	6380.7	6283.2	6241.4	6212.0
55°	6448.8	6346.7	6178.0	6029.4	5953.6	5897.9	5772.5	5681.2	5648.7	5589.9
57.5°	5792.6	5719.9	5599.2	5442.9	5391.8	5309.8	5167.4	5071.5	4980.2	4938.4
60°	5218.5	5131.8	4991.0	4853.3	4755.8	4669.1	4528.3	4432.3	4337.9	4334.8
62.5°	4670.6	4554.6	4390.5	4226.5	4159.9	4102.7	3954.1	3855.1	3800.9	3796.2
65°	4079.5	3971.1	3834.9	3717.3	3639.9	3587.3	3506.8	3403.2	3338.2	3314.9
67.5°	3553.3	3471.3	3362.9	3260.8	3206.6	3158.6	3039.5	2957.5	2892.5	2875.4
70°	3107.6	3033.3	2946.6	2830.5	2782.6	2728.4	2629.4	2541.1	2479.2	2480.8
72.5°	2695.9	2629.4	2548.9	2446.7	2397.2	2363.2	2271.9	2208.4	2152.7	2135.7
75°	2315.2	2257.9	2208.4	2121.8	2086.2	2042.8	1957.7	1898.9	1855.6	1835.4
77.5°	1987.1	1945.3	1874.1	1790.6	1762.7	1707.0	1631.2	1575.4	1532.1	1530.6
80°	1654.4	1590.9	1532.1	1456.3	1422.2	1385.1	1310.8	1262.8	1231.9	1230.3
82.5°	1332.5	1278.3	1221.1	1149.9	1126.6	1098.8	1053.9	1007.5	985.8	964.2
85°	1043.1	992.0	944.0	897.6	868.2	852.7	806.3	787.7	753.7	750.6
87.5°	776.9	739.7	716.5	674.8	660.8	650.0	620.6	592.7	581.9	568.0
90°	557.1	526.2	509.2	482.8	479.8	464.3	451.9	431.8	414.8	407.0
92.5°	473.6	441.1	422.5	402.4	393.1	388.4	371.4	357.5	351.3	343.6
95°	408.6	382.3	365.2	351.3	345.1	338.9	328.1	320.4	311.1	306.4
97.5°	365.2	345.1	331.2	318.8	314.2	311.1	301.8	294.0	287.9	283.2
100°	343.6	323.4	311.1	301.8	295.6	292.5	284.8	278.6	273.9	270.8
102.5°	334.3	315.7	304.9	297.1	294.0	289.4	283.2	278.6	273.9	270.8
105°	328.1	315.7	304.9	298.7	297.1	294.0	287.9	284.8	281.7	277.0
107.5°	328.1	298.7	292.5	298.7	298.7	295.6	290.9	287.9	284.8	281.7
110°	357.5	326.5	306.4	289.4	281.7	277.0	272.4	275.5	278.6	273.9





TEST NUMBER: P236402

CATALOG NUMBER: SKB4-LD5-36-N-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	385.4	355.9	331.2	311.1	304.9	298.7	295.6	292.5	286.3	284.8
115°	405.5	373.0	354.4	340.5	334.3	329.6	320.4	312.6	308.0	301.8
117.5°	427.1	393.1	368.3	351.3	346.7	343.6	338.9	334.3	329.6	326.5
120°	447.3	413.2	386.9	369.9	363.7	357.5	351.3	343.6	337.4	332.7
122.5°	464.3	433.3	407.0	386.9	382.3	376.1	366.8	359.0	351.3	348.2
125°	490.6	453.4	425.6	407.0	400.8	396.2	385.4	377.6	368.3	363.7
127.5°	520.0	479.8	450.3	427.1	419.4	411.7	400.8	391.5	383.8	380.7
130°	574.2	513.8	478.2	451.9	442.6	434.9	422.5	410.1	400.8	397.7
132.5°	701.1	585.0	516.9	482.8	472.0	458.1	444.2	431.8	420.9	417.9
135°	755.2	698.0	659.3	537.0	513.8	499.9	473.6	459.6	445.7	445.7
137.5°	736.7	742.8	727.4	679.4	667.0	651.5	558.7	510.7	492.1	487.5
140°	753.7	732.0	715.0	742.8	736.7	725.8	673.2	656.2	645.3	639.2
142.5°	761.4	750.6	733.6	716.5	711.9	705.7	716.5	727.4	727.4	722.7
145°	764.5	758.3	750.6	739.7	735.1	728.9	721.2	711.9	704.2	701.1
147.5°	759.9	759.9	755.2	750.6	745.9	742.8	735.1	728.9	721.2	718.1
150°	747.5	755.2	755.2	755.2	753.7	752.1	744.4	736.7	732.0	728.9
152.5°	719.6	736.7	745.9	749.0	750.6	753.7	753.7	752.1	747.5	744.4
155°	677.8	701.1	716.5	725.8	728.9	730.5	735.1	733.6	732.0	728.9
157.5°	656.2	656.2	677.8	696.4	699.5	704.2	708.8	708.8	704.2	702.6
160°	571.1	637.6	656.2	650.0	651.5	656.2	663.9	670.1	674.8	670.1
162.5°	431.8	478.2	537.0	594.3	612.8	626.8	650.0	648.4	643.8	642.3
165°	326.5	377.6	403.9	427.1	444.2	456.5	478.2	496.8	503.0	504.5
167.5°	185.7	227.5	270.8	304.9	318.8	337.4	345.1	362.1	366.8	359.0
170°	102.1	111.4	122.3	139.3	142.4	154.8	168.7	195.0	199.6	187.3
172.5°	91.3	92.9	94.4	96.0	96.0	96.0	96.0	96.0	91.3	86.7
175°	82.0	83.6	83.6	85.1	85.1	85.1	83.6	80.5	75.8	72.7
177.5°	78.9	78.9	78.9	78.9	78.9	78.9	77.4	72.7	68.1	65.0
180°	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9

(END OF REPORT)