

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: P236401

Luminaire Tested: **SKB4-LD5-36-N-UNV-L840-CD4-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236401
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-L840-CD4-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

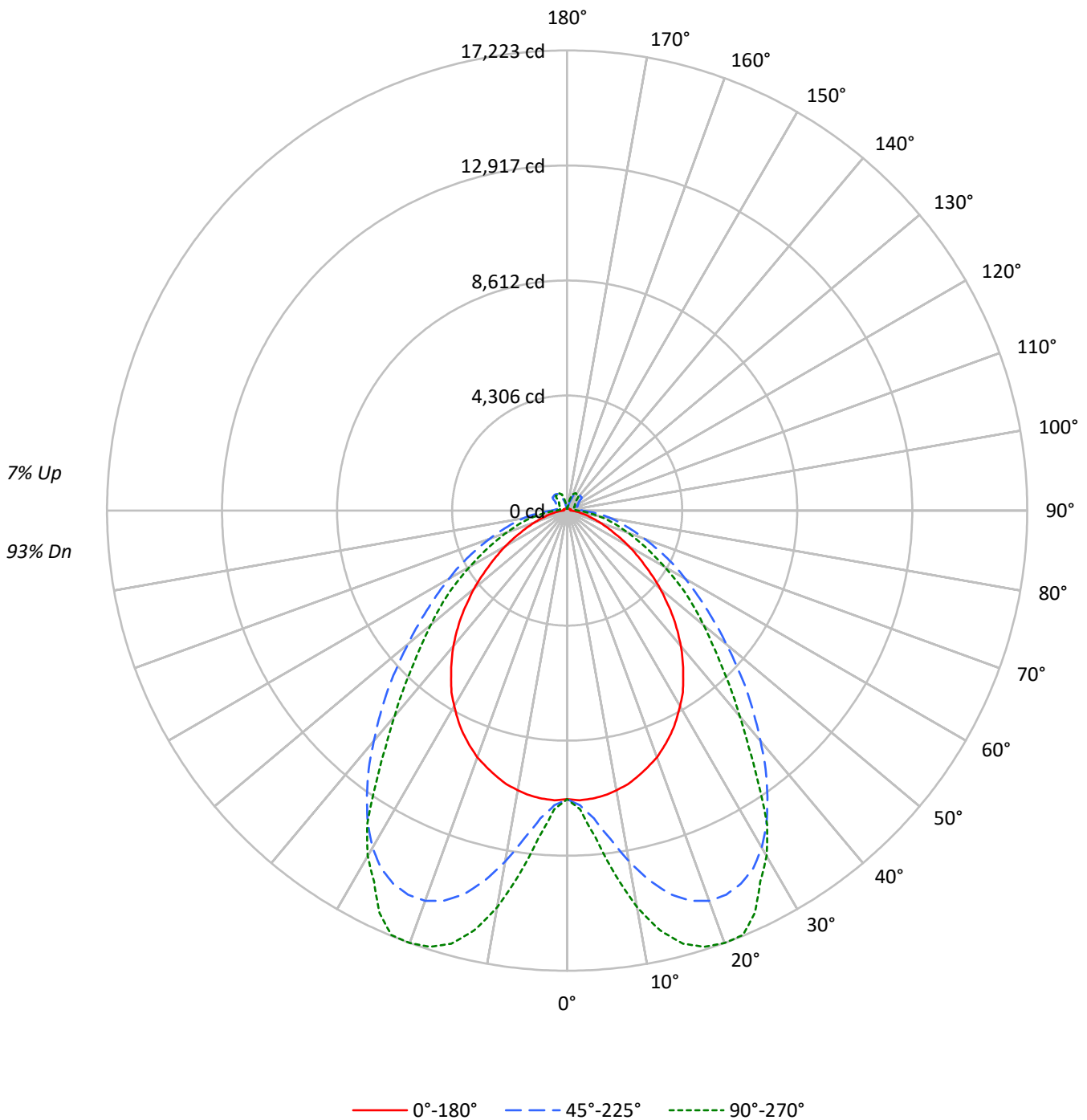
Lumens per Lamp: N/A
Luminaire Lumens: 39904.0 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.56 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Direct

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°	15496	15496	15496
5°	15519	16499	17549
10°	15351	19039	21547
15°	15075	21413	24214
20°	14736	22781	25283
25°	14235	23147	25015
30°	13588	22626	23245
35°	12798	21188	20292
40°	11886	19220	17221
45°	10797	17288	14857
50°	9546	15262	13148
55°	8202	13588	11720
60°	7010	12196	10131
65°	5751	11027	8826
70°	4755	9833	7743
75°	3920	8910	6985
80°	3384	8309	6056
85°	3102	7490	5286



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1151.5	2.9
10°-20°	4005.5	10.0
20°-30°	6535.9	16.4
30°-40°	7311.5	18.3
40°-50°	6469.7	16.2
50°-60°	5010.7	12.6
60°-70°	3459.4	8.7
70°-80°	2151.0	5.4
80°-90°	1068.1	2.7
90°-100°	444.4	1.1
100°-110°	372.0	0.9
110°-120°	409.2	1.0
120°-130°	424.7	1.1
130°-140°	415.9	1.0
140°-150°	359.0	0.9
150°-160°	227.2	0.6
160°-170°	79.8	0.2
170°-180°	8.5	0.0
0°-30°	11692.8	29.3
0°-40°	19004.3	47.6
0°-60°	30484.8	76.4
0°-90°	37163.3	93.1
90°-120°	1225.7	3.1
90°-150°	2425.3	6.1
90°-180°	2741.0	6.9
0°-180°	39904.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10797	10797	10797	10797	10797	
5°	10821	11066	11568	12016	12300	###
15°	10288	12089	14857	16323	16782	2899
25°	9208	12442	15404	16505	16615	4230
35°	7571	10992	13070	12828	12483	4731
45°	5597	8357	9500	8722	8133	4301
55°	3522	5670	6326	5780	5427	3175
65°	1883	3674	4051	3534	3218	1899
75°	844	2413	2299	2025	1782	918
85°	300	1334	1055	843	729	293
90°	120	768	578	466	395	79
95°	131	548	430	335	298	108
105°	135	511	329	288	269	144
115°	120	688	430	324	293	121
125°	107	715	524	389	353	96
135°	86	643	724	499	433	68
145°	78	499	741	714	681	50
155°	78	222	639	708	708	36
165°	80	90	258	431	490	23
175°	78	78	80	83	71	7
180°	77	77	77	77	77	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1
2.5°	10854.2	10831.7	10833.2	10864.7	10881.3	10873.8	10897.8	10932.3	10974.4	11024.0	11042.0
5°	10821.2	10810.6	10857.2	10953.4	11033.0	11066.1	11114.2	11222.3	11339.5	11431.2	11567.9
7.5°	10750.5	10761.1	10870.7	11028.5	11190.8	11264.4	11351.6	11548.4	11833.9	12089.3	12395.8
10°	10630.3	10673.9	10860.2	11087.1	11341.0	11489.8	11659.6	12057.7	12523.5	12926.2	13330.4
12.5°	10492.1	10567.2	10800.1	11112.7	11536.4	11775.3	12053.2	12619.7	13177.1	13674.5	14164.3
15°	10287.8	10424.5	10716.0	11136.7	11755.7	12089.3	12425.9	13078.0	13740.6	14365.6	14856.9
17.5°	10060.9	10244.2	10591.3	11171.3	11937.5	12314.7	12687.3	13431.0	14192.8	14790.8	15307.7
20°	9831.0	10017.3	10426.0	11171.3	12033.7	12454.4	12866.1	13697.0	14427.2	15044.8	15542.1
22.5°	9523.0	9781.4	10238.2	11114.2	12048.7	12501.0	12951.7	13760.1	14499.3	15073.3	15560.1
25°	9207.5	9455.4	10024.8	10972.9	11957.1	12442.4	12873.6	13680.5	14383.6	14941.1	15403.9
27.5°	8845.3	9108.3	9748.4	10759.6	11767.8	12233.5	12660.3	13431.0	14131.2	14666.1	15086.8
30°	8445.7	8737.2	9434.3	10445.5	11449.2	11900.0	12320.7	13053.9	13719.5	14191.3	14562.4
32.5°	8059.5	8316.5	9046.7	10066.9	11045.0	11476.3	11868.4	12582.1	13168.1	13588.8	13881.8
35°	7571.2	7844.7	8614.0	9623.7	10556.7	10992.5	11315.5	11978.1	12516.0	12846.6	13070.4
37.5°	7106.9	7353.3	8127.1	9129.3	9996.3	10371.9	10717.5	11320.0	11790.3	12089.3	12202.0
40°	6621.6	6845.5	7605.8	8550.9	9369.7	9718.3	10042.9	10594.3	11007.5	11220.8	11252.4
42.5°	6107.8	6303.1	7060.4	7936.3	8710.1	9048.2	9369.7	9837.0	10191.6	10388.4	10353.9
45°	5596.9	5751.7	6493.9	7317.3	8038.5	8357.0	8615.5	9060.2	9383.2	9491.4	9500.4
47.5°	5042.5	5213.8	5913.9	6710.3	7384.9	7655.3	7885.2	8313.5	8573.4	8642.5	8601.9
50°	4540.6	4692.4	5335.5	6070.2	6711.8	6937.1	7183.6	7580.2	7766.5	7838.7	7775.6
52.5°	4025.3	4186.0	4788.5	5467.7	6034.1	6316.6	6501.4	6859.0	7012.3	7051.3	7027.3
55°	3521.9	3709.7	4277.7	4892.2	5446.6	5670.5	5898.9	6196.4	6328.6	6322.6	6325.6
57.5°	3077.2	3231.9	3781.8	4375.3	4902.7	5093.5	5297.9	5547.3	5672.0	5702.1	5699.1
60°	2662.5	2815.7	3347.6	3875.0	4385.9	4590.2	4751.0	4958.3	5068.0	5090.5	5098.1
62.5°	2258.3	2429.6	2932.9	3452.8	3930.6	4124.4	4265.7	4464.0	4533.1	4548.1	4593.2
65°	1882.7	2082.5	2564.8	3080.2	3508.4	3673.7	3798.4	3965.2	4041.8	4088.4	4050.8
67.5°	1567.1	1782.0	2255.3	2760.1	3150.8	3302.5	3416.7	3546.0	3612.1	3619.6	3535.4
70°	1295.2	1525.1	1981.8	2455.1	2830.8	2969.0	3072.7	3176.3	3164.3	3119.2	3086.2
72.5°	1053.3	1295.2	1765.5	2205.7	2552.8	2676.0	2760.1	2821.7	2755.6	2725.6	2676.0
75°	844.4	1101.3	1579.2	1993.8	2307.9	2413.1	2453.6	2443.1	2399.5	2354.5	2298.9
77.5°	670.1	937.6	1400.4	1800.0	2076.5	2142.6	2162.1	2123.1	2063.0	2020.9	1966.8
80°	530.4	805.4	1251.6	1622.7	1818.1	1864.6	1876.6	1822.6	1758.0	1721.9	1663.3
82.5°	404.2	688.2	1108.9	1418.4	1573.1	1601.7	1594.2	1534.1	1481.5	1415.4	1356.8
85°	300.5	577.0	955.6	1203.5	1314.7	1334.2	1316.2	1253.1	1197.5	1131.4	1054.8
87.5°	210.4	473.3	782.8	972.1	1059.3	1057.8	1036.7	981.1	915.0	856.4	796.3
90°	120.2	336.6	575.5	701.7	763.3	767.8	751.3	703.2	664.1	629.6	578.5
92.5°	123.2	256.9	435.7	574.0	643.1	650.6	649.1	617.5	575.5	533.4	495.8
95°	130.7	213.4	339.6	450.8	527.4	548.4	557.4	539.4	507.9	470.3	429.7
97.5°	135.2	223.9	333.6	411.7	456.8	470.3	483.8	474.8	450.8	419.2	386.1
100°	139.7	246.4	359.1	425.2	455.3	455.3	447.8	429.7	414.7	390.7	360.6
102.5°	139.7	256.9	395.2	453.8	480.8	477.8	471.8	428.2	386.1	371.1	348.6
105°	135.2	261.4	429.7	503.3	509.4	510.9	498.8	462.8	411.7	368.1	329.1
107.5°	135.2	256.9	443.2	534.9	546.9	537.9	528.9	491.3	441.7	399.7	353.1
110°	132.2	252.4	449.3	577.0	608.5	577.0	557.4	519.9	470.3	422.2	386.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	126.2	235.9	444.7	589.0	646.1	634.1	598.0	545.4	495.8	447.8	407.2
115°	120.2	211.9	431.2	590.5	671.6	688.2	679.1	580.0	519.9	471.8	429.7
117.5°	117.2	192.3	425.2	590.5	689.7	707.7	716.7	631.1	548.4	492.8	452.3
120°	114.2	168.3	411.7	584.5	691.2	721.2	733.2	724.2	589.0	518.4	470.3
122.5°	111.2	145.7	396.7	574.0	686.7	721.2	743.7	743.7	668.6	551.4	492.8
125°	106.7	130.7	357.6	554.4	677.6	715.2	742.2	757.3	731.7	608.5	524.4
127.5°	102.2	115.7	327.5	537.9	664.1	704.7	733.2	758.8	751.3	709.2	572.5
130°	97.7	102.2	290.0	524.4	644.6	688.2	721.2	755.8	752.8	740.7	691.2
132.5°	91.7	94.7	246.4	494.3	617.5	668.6	704.7	746.8	757.3	736.2	736.2
135°	85.6	87.1	199.8	431.2	593.5	643.1	686.7	734.7	754.3	746.8	724.2
137.5°	82.6	84.1	156.3	381.6	587.5	616.0	659.6	721.2	748.3	751.3	737.7
140°	81.1	81.1	124.7	338.1	552.9	605.5	631.1	700.2	736.2	748.3	743.7
142.5°	79.6	79.6	103.7	290.0	468.8	581.5	617.5	673.1	721.2	742.2	745.3
145°	78.1	79.6	91.7	232.9	408.7	498.8	602.5	641.6	697.2	728.7	740.7
147.5°	78.1	79.6	88.6	172.8	353.1	420.7	509.4	631.1	664.1	707.7	730.2
150°	78.1	78.1	87.1	123.2	291.5	366.6	431.2	593.5	635.6	676.1	706.2
152.5°	78.1	78.1	85.6	102.2	222.4	302.0	368.1	482.3	623.5	640.1	668.6
155°	78.1	78.1	84.1	93.2	150.3	222.4	299.0	402.7	506.3	625.0	638.6
157.5°	79.6	79.6	82.6	90.2	111.2	147.2	211.9	332.1	414.7	510.9	605.5
160°	79.6	79.6	81.1	88.6	96.2	106.7	130.7	232.9	333.6	399.7	468.8
162.5°	79.6	79.6	81.1	85.6	91.7	94.7	100.7	141.2	232.9	323.0	375.6
165°	79.6	79.6	79.6	82.6	88.6	90.2	93.2	102.2	129.2	189.3	258.4
167.5°	79.6	79.6	79.6	81.1	84.1	87.1	88.6	93.2	97.7	105.2	129.2
170°	79.6	79.6	79.6	79.6	81.1	82.6	84.1	87.1	90.2	91.7	94.7
172.5°	78.1	79.6	78.1	78.1	78.1	79.6	79.6	81.1	82.6	84.1	85.6
175°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	79.6
177.5°	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	76.6	76.6
180°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1	10797.1
2.5°	11072.1	11082.6	11087.1	11136.7	11141.2	11135.2	11142.7	11193.8	11195.3	11195.3
5°	11649.1	11758.7	11888.0	11979.6	12015.7	12029.2	12137.4	12190.0	12203.5	12299.6
7.5°	12687.3	12842.1	13032.9	13199.7	13295.8	13351.4	13452.1	13576.8	13629.4	13736.1
10°	13679.0	13987.0	14237.9	14452.8	14597.0	14652.6	14789.3	14951.6	15068.8	15074.8
12.5°	14577.5	14948.6	15240.1	15507.5	15591.7	15690.8	15853.1	15965.8	16071.0	16098.0
15°	15303.2	15644.3	15949.3	16218.2	16323.4	16395.5	16559.3	16681.0	16742.6	16781.7
17.5°	15758.5	16089.0	16373.0	16613.4	16696.0	16780.2	16918.4	17023.6	17092.7	17116.7
20°	15941.8	16258.8	16520.2	16747.1	16828.2	16900.4	17032.6	17137.8	17203.9	17223.4
22.5°	15938.8	16231.7	16496.2	16709.5	16793.7	16874.8	17007.0	17100.2	17164.8	17193.4
25°	15760.0	16055.9	16293.3	16460.1	16505.2	16553.3	16617.9	16628.4	16666.0	16614.9
27.5°	15402.4	15657.8	15775.0	15817.0	15811.0	15799.0	15755.4	15714.9	15708.9	15656.3
30°	14805.9	14954.6	15007.2	14971.1	14984.7	14894.5	14878.0	14853.9	14896.0	14926.1
32.5°	14038.1	14108.7	14035.1	13991.5	13961.4	13944.9	13955.4	13959.9	13946.4	13928.4
35°	13135.0	13068.9	12984.8	12854.1	12828.5	12777.4	12688.8	12624.2	12571.6	12483.0
37.5°	12161.4	12056.2	11967.6	11808.3	11703.1	11655.1	11468.8	11336.5	11204.3	11162.2
40°	11186.3	11060.1	10950.4	10771.6	10685.9	10589.8	10341.9	10235.2	10122.5	10048.9
42.5°	10275.7	10181.1	10012.8	9820.5	9662.7	9544.0	9348.7	9207.5	9126.3	9073.7
45°	9386.3	9264.6	9052.7	8845.3	8722.1	8601.9	8420.1	8293.9	8176.7	8133.2
47.5°	8546.3	8379.6	8209.8	7993.4	7859.7	7765.0	7643.3	7494.6	7401.4	7356.3
50°	7691.4	7565.2	7383.4	7177.5	7100.9	7001.8	6859.0	6752.3	6680.2	6668.2
52.5°	6938.6	6826.0	6663.7	6475.9	6381.2	6331.6	6194.9	6100.2	6059.7	6031.1
55°	6261.0	6161.8	5998.1	5853.8	5780.2	5726.1	5604.4	5515.8	5484.2	5427.1
57.5°	5623.9	5553.3	5436.1	5284.4	5234.8	5155.2	5016.9	4923.8	4835.1	4794.5
60°	5066.5	4982.4	4845.6	4711.9	4617.3	4533.1	4396.4	4303.2	4211.6	4208.6
62.5°	4534.6	4421.9	4262.7	4103.4	4038.8	3983.2	3838.9	3742.8	3690.2	3685.7
65°	3960.6	3855.5	3723.2	3609.1	3533.9	3482.8	3404.7	3304.0	3240.9	3218.4
67.5°	3449.8	3370.2	3265.0	3165.8	3113.2	3066.6	2951.0	2871.3	2808.2	2791.7
70°	3017.1	2944.9	2860.8	2748.1	2701.5	2648.9	2552.8	2467.1	2407.0	2408.5
72.5°	2617.4	2552.8	2474.7	2375.5	2327.4	2294.4	2205.7	2144.1	2090.0	2073.5
75°	2247.8	2192.2	2144.1	2060.0	2025.4	1983.3	1900.7	1843.6	1801.5	1782.0
77.5°	1929.2	1888.7	1819.6	1738.4	1711.4	1657.3	1583.7	1529.6	1487.5	1486.0
80°	1606.2	1544.6	1487.5	1413.9	1380.8	1344.8	1272.6	1226.1	1196.0	1194.5
82.5°	1293.7	1241.1	1185.5	1116.4	1093.8	1066.8	1023.2	978.1	957.1	936.1
85°	1012.7	963.1	916.5	871.5	842.9	827.9	782.8	764.8	731.7	728.7
87.5°	754.3	718.2	695.7	655.1	641.6	631.1	602.5	575.5	564.9	551.4
90°	540.9	510.9	494.3	468.8	465.8	450.8	438.7	419.2	402.7	395.2
92.5°	459.8	428.2	410.2	390.7	381.6	377.1	360.6	347.1	341.1	333.6
95°	396.7	371.1	354.6	341.1	335.1	329.1	318.5	311.0	302.0	297.5
97.5°	354.6	335.1	321.5	309.5	305.0	302.0	293.0	285.5	279.5	275.0
100°	333.6	314.0	302.0	293.0	287.0	284.0	276.5	270.5	265.9	262.9
102.5°	324.5	306.5	296.0	288.5	285.5	281.0	275.0	270.5	265.9	262.9
105°	318.5	306.5	296.0	290.0	288.5	285.5	279.5	276.5	273.5	269.0
107.5°	318.5	290.0	284.0	290.0	290.0	287.0	282.5	279.5	276.5	273.5
110°	347.1	317.0	297.5	281.0	273.5	269.0	264.4	267.4	270.5	265.9



TEST NUMBER: P236401

CATALOG NUMBER: SKB4-LD5-36-N-UNV-L840-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	374.1	345.6	321.5	302.0	296.0	290.0	287.0	284.0	278.0	276.5
115°	393.7	362.1	344.1	330.6	324.5	320.0	311.0	303.5	299.0	293.0
117.5°	414.7	381.6	357.6	341.1	336.6	333.6	329.1	324.5	320.0	317.0
120°	434.2	401.2	375.6	359.1	353.1	347.1	341.1	333.6	327.5	323.0
122.5°	450.8	420.7	395.2	375.6	371.1	365.1	356.1	348.6	341.1	338.1
125°	476.3	440.2	413.2	395.2	389.2	384.6	374.1	366.6	357.6	353.1
127.5°	504.8	465.8	437.2	414.7	407.2	399.7	389.2	380.1	372.6	369.6
130°	557.4	498.8	464.3	438.7	429.7	422.2	410.2	398.2	389.2	386.1
132.5°	680.6	568.0	501.8	468.8	458.3	444.7	431.2	419.2	408.7	405.7
135°	733.2	677.6	640.1	521.4	498.8	485.3	459.8	446.2	432.7	432.7
137.5°	715.2	721.2	706.2	659.6	647.6	632.6	542.4	495.8	477.8	473.3
140°	731.7	710.7	694.2	721.2	715.2	704.7	653.6	637.1	626.6	620.5
142.5°	739.2	728.7	712.2	695.7	691.2	685.2	695.7	706.2	706.2	701.7
145°	742.2	736.2	728.7	718.2	713.7	707.7	700.2	691.2	683.6	680.6
147.5°	737.7	737.7	733.2	728.7	724.2	721.2	713.7	707.7	700.2	697.2
150°	725.7	733.2	733.2	733.2	731.7	730.2	722.7	715.2	710.7	707.7
152.5°	698.7	715.2	724.2	727.2	728.7	731.7	731.7	730.2	725.7	722.7
155°	658.1	680.6	695.7	704.7	707.7	709.2	713.7	712.2	710.7	707.7
157.5°	637.1	637.1	658.1	676.1	679.1	683.6	688.2	688.2	683.6	682.1
160°	554.4	619.0	637.1	631.1	632.6	637.1	644.6	650.6	655.1	650.6
162.5°	419.2	464.3	521.4	577.0	595.0	608.5	631.1	629.6	625.0	623.5
165°	317.0	366.6	392.2	414.7	431.2	443.2	464.3	482.3	488.3	489.8
167.5°	180.3	220.9	262.9	296.0	309.5	327.5	335.1	351.6	356.1	348.6
170°	99.2	108.2	118.7	135.2	138.2	150.3	163.8	189.3	193.8	181.8
172.5°	88.6	90.2	91.7	93.2	93.2	93.2	93.2	93.2	88.6	84.1
175°	79.6	81.1	81.1	82.6	82.6	82.6	81.1	78.1	73.6	70.6
177.5°	76.6	76.6	76.6	76.6	76.6	76.6	75.1	70.6	66.1	63.1
180°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6

(END OF REPORT)