

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: P236398

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236398  
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-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

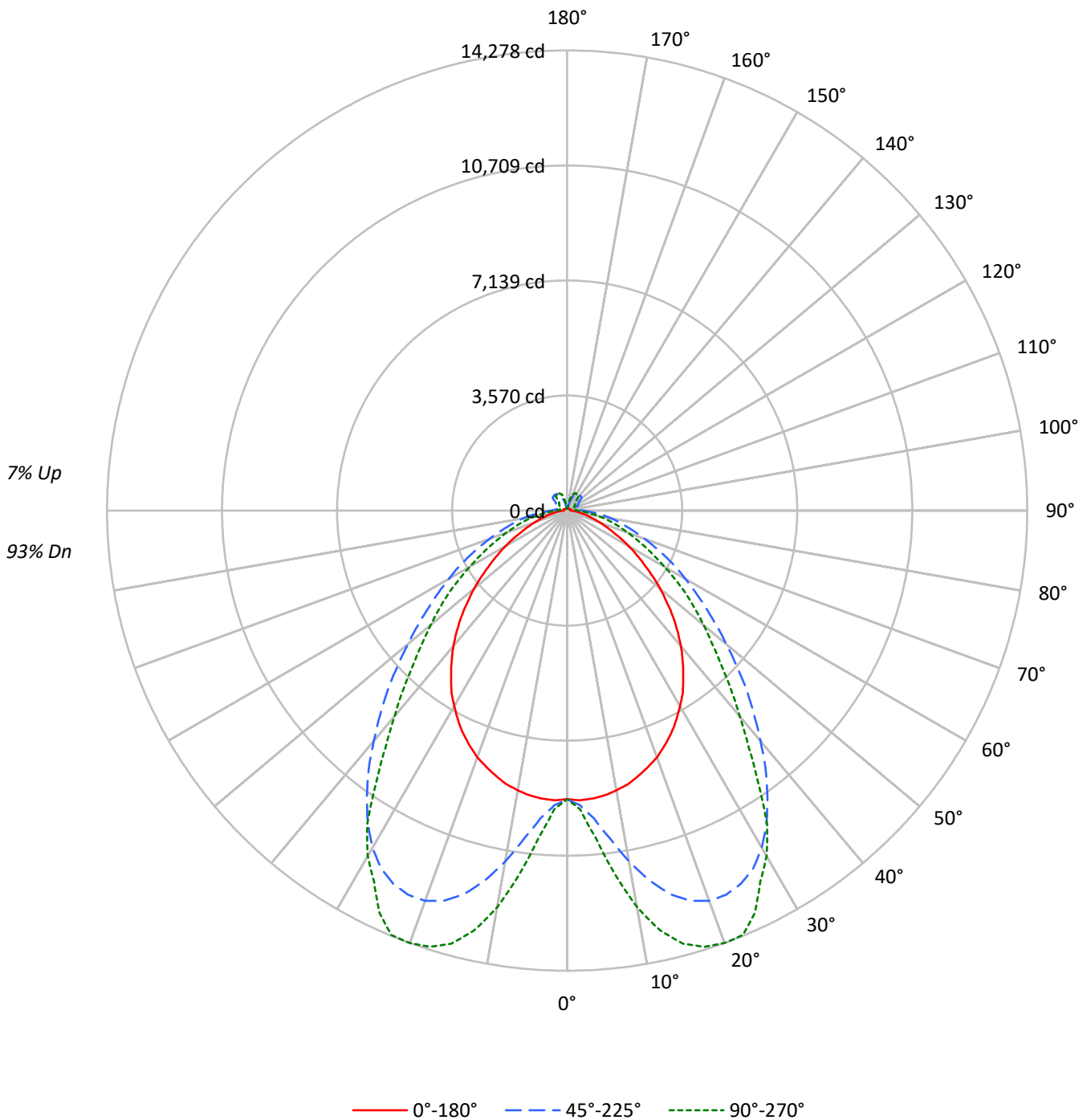
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33081.0 lumens  
Efficiency: N/A  
Efficacy: 127.0 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°	12846	12846	12846
5°	12865	13678	14549
10°	12726	15784	17863
15°	12498	17751	20073
20°	12216	18885	20960
25°	11801	19189	20737
30°	11264	18757	19270
35°	10610	17565	16822
40°	9854	15934	14277
45°	8951	14332	12317
50°	7913	12652	10899
55°	6800	11265	9716
60°	5811	10111	8398
65°	4768	9142	7317
70°	3941	8152	6419
75°	3250	7387	5791
80°	2805	6888	5021
85°	2571	6209	4382



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	954.6	2.9
10°-20°	3320.6	10.0
20°-30°	5418.3	16.4
30°-40°	6061.4	18.3
40°-50°	5363.5	16.2
50°-60°	4153.9	12.6
60°-70°	2867.9	8.7
70°-80°	1783.2	5.4
80°-90°	885.5	2.7
90°-100°	368.4	1.1
100°-110°	308.4	0.9
110°-120°	339.2	1.0
120°-130°	352.1	1.1
130°-140°	344.8	1.0
140°-150°	297.6	0.9
150°-160°	188.3	0.6
160°-170°	66.2	0.2
170°-180°	7.0	0.0
0°-30°	9693.5	29.3
0°-40°	15754.9	47.6
0°-60°	25272.3	76.4
0°-90°	30808.9	93.1
90°-120°	1016.1	3.1
90°-150°	2010.6	6.1
90°-180°	2272.0	6.9
0°-180°	33081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8951	8951	8951	8951	8951	
5°	8971	9174	9590	9961	10197	851
15°	8529	10022	12317	13532	13912	2403
25°	7633	10315	12770	13683	13774	3507
35°	6277	9113	10836	10635	10349	3922
45°	4640	6928	7876	7231	6742	3565
55°	2920	4701	5244	4792	4499	2632
65°	1561	3046	3358	2930	2668	1574
75°	700	2000	1906	1679	1477	761
85°	249	1106	874	699	604	242
90°	100	636	480	386	328	65
95°	108	455	356	278	247	90
105°	112	424	273	239	223	120
115°	100	570	356	269	243	100
125°	88	593	435	323	293	79
135°	71	533	600	414	359	56
145°	65	414	614	592	564	41
155°	65	184	529	587	587	30
165°	66	75	214	358	406	19
175°	65	65	66	68	58	6
180°	64	64	64	64	64	



TEST NUMBER: P236398

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0
2.5°	8998.3	8979.6	8980.9	9007.0	9020.7	9014.5	9034.4	9063.1	9098.0	9139.1	9154.0
5°	8970.9	8962.2	9000.8	9080.5	9146.5	9173.9	9213.8	9303.5	9400.6	9476.6	9590.0
7.5°	8912.4	8921.1	9012.0	9142.8	9277.3	9338.4	9410.6	9573.8	9810.4	10022.2	10276.3
10°	8812.7	8848.8	9003.3	9191.4	9401.9	9525.2	9666.0	9996.0	10382.2	10716.0	11051.1
12.5°	8698.1	8760.4	8953.5	9212.6	9563.8	9761.9	9992.3	10461.9	10924.0	11336.3	11742.4
15°	8528.7	8642.1	8883.7	9232.5	9745.7	10022.2	10301.2	10841.8	11391.1	11909.3	12316.6
17.5°	8340.6	8492.6	8780.3	9261.1	9896.4	10209.0	10518.0	11134.5	11766.1	12261.8	12690.3
20°	8150.0	8304.5	8643.3	9261.1	9976.1	10324.9	10666.2	11355.0	11960.4	12472.3	12884.6
22.5°	7894.7	8108.9	8487.6	9213.8	9988.6	10363.5	10737.2	11407.3	12020.2	12496.0	12899.6
25°	7633.1	7838.6	8310.7	9096.7	9912.6	10314.9	10672.4	11341.3	11924.3	12386.4	12770.0
27.5°	7332.9	7550.9	8081.5	8919.8	9755.6	10141.8	10495.5	11134.5	11715.0	12158.4	12507.2
30°	7001.6	7243.2	7821.2	8659.5	9491.6	9865.3	10214.0	10821.9	11373.7	11764.8	12072.5
32.5°	6681.5	6894.5	7499.8	8345.6	9156.5	9514.0	9839.1	10430.8	10916.5	11265.3	11508.2
35°	6276.6	6503.3	7141.1	7978.1	8751.7	9112.9	9380.7	9930.0	10376.0	10650.0	10835.6
37.5°	5891.7	6096.0	6737.5	7568.3	8287.1	8598.5	8885.0	9384.4	9774.3	10022.2	10115.6
40°	5489.4	5675.0	6305.3	7088.8	7767.6	8056.6	8325.7	8782.8	9125.4	9302.2	9328.4
42.5°	5063.4	5225.3	5853.1	6579.3	7220.8	7501.1	7767.6	8155.0	8449.0	8612.2	8583.5
45°	4639.9	4768.2	5383.5	6066.1	6664.0	6928.1	7142.3	7511.0	7778.9	7868.5	7876.0
47.5°	4180.3	4322.3	4902.7	5562.9	6122.2	6346.4	6537.0	6892.0	7107.5	7164.8	7131.1
50°	3764.2	3890.0	4423.2	5032.3	5564.2	5751.0	5955.3	6284.1	6438.6	6498.4	6446.0
52.5°	3337.0	3470.3	3969.8	4532.8	5002.4	5236.6	5389.8	5686.2	5813.3	5845.7	5825.7
55°	2919.7	3075.4	3546.3	4055.7	4515.3	4700.9	4890.3	5136.9	5246.5	5241.5	5244.0
57.5°	2551.0	2679.3	3135.2	3627.2	4064.4	4222.6	4392.0	4598.8	4702.2	4727.1	4724.6
60°	2207.2	2334.3	2775.2	3212.4	3635.9	3805.3	3938.6	4110.5	4201.5	4220.1	4226.4
62.5°	1872.2	2014.2	2431.4	2862.4	3258.5	3419.2	3536.3	3700.7	3758.0	3770.5	3807.8
65°	1560.8	1726.4	2126.3	2553.5	2908.5	3045.5	3148.9	3287.2	3350.7	3389.3	3358.2
67.5°	1299.2	1477.3	1869.7	2288.2	2612.0	2737.9	2832.5	2939.6	2994.5	3000.7	2930.9
70°	1073.7	1264.3	1643.0	2035.3	2346.7	2461.3	2547.3	2633.2	2623.3	2585.9	2558.5
72.5°	873.2	1073.7	1463.6	1828.6	2116.3	2218.4	2288.2	2339.3	2284.5	2259.5	2218.4
75°	700.0	913.0	1309.1	1652.9	1913.3	2000.5	2034.1	2025.4	1989.2	1951.9	1905.8
77.5°	555.5	777.3	1160.9	1492.2	1721.4	1776.2	1792.4	1760.1	1710.2	1675.3	1630.5
80°	439.7	667.6	1037.6	1345.3	1507.2	1545.8	1555.8	1510.9	1457.4	1427.5	1378.9
82.5°	335.1	570.5	919.3	1175.9	1304.2	1327.8	1321.6	1271.8	1228.2	1173.4	1124.8
85°	249.1	478.3	792.2	997.7	1089.9	1106.1	1091.2	1038.8	992.8	937.9	874.4
87.5°	174.4	392.4	649.0	805.9	878.2	876.9	859.5	813.4	758.6	710.0	660.2
90°	99.6	279.0	477.1	581.7	632.8	636.5	622.8	582.9	550.6	521.9	479.6
92.5°	102.1	213.0	361.2	475.8	533.1	539.4	538.1	511.9	477.1	442.2	411.1
95°	108.4	176.9	281.5	373.7	437.2	454.6	462.1	447.2	421.0	389.9	356.2
97.5°	112.1	185.6	276.5	341.3	378.7	389.9	401.1	393.6	373.7	347.5	320.1
100°	115.8	204.3	297.7	352.5	377.4	377.4	371.2	356.2	343.8	323.9	298.9
102.5°	115.8	213.0	327.6	376.2	398.6	396.1	391.1	355.0	320.1	307.7	289.0
105°	112.1	216.7	356.2	417.3	422.3	423.5	413.5	383.6	341.3	305.2	272.8
107.5°	112.1	213.0	367.5	443.4	453.4	445.9	438.5	407.3	366.2	331.3	292.7
110°	109.6	209.3	372.4	478.3	504.5	478.3	462.1	431.0	389.9	350.0	320.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	104.6	195.6	368.7	488.3	535.6	525.6	495.8	452.2	411.1	371.2	337.6
115°	99.6	175.6	357.5	489.5	556.8	570.5	563.0	480.8	431.0	391.1	356.2
117.5°	97.2	159.4	352.5	489.5	571.7	586.7	594.2	523.2	454.6	408.6	374.9
120°	94.7	139.5	341.3	484.5	573.0	597.9	607.9	600.4	488.3	429.7	389.9
122.5°	92.2	120.8	328.8	475.8	569.2	597.9	616.6	616.6	554.3	457.1	408.6
125°	88.4	108.4	296.5	459.6	561.8	592.9	615.3	627.8	606.6	504.5	434.7
127.5°	84.7	95.9	271.5	445.9	550.6	584.2	607.9	629.0	622.8	587.9	474.6
130°	81.0	84.7	240.4	434.7	534.4	570.5	597.9	626.5	624.1	614.1	573.0
132.5°	76.0	78.5	204.3	409.8	511.9	554.3	584.2	619.1	627.8	610.4	610.4
135°	71.0	72.2	165.7	357.5	492.0	533.1	569.2	609.1	625.3	619.1	600.4
137.5°	68.5	69.8	129.5	316.4	487.0	510.7	546.8	597.9	620.3	622.8	611.6
140°	67.3	67.3	103.4	280.3	458.4	502.0	523.2	580.5	610.4	620.3	616.6
142.5°	66.0	66.0	85.9	240.4	388.6	482.1	511.9	558.0	597.9	615.3	617.8
145°	64.8	66.0	76.0	193.1	338.8	413.5	499.5	531.9	578.0	604.1	614.1
147.5°	64.8	66.0	73.5	143.2	292.7	348.8	422.3	523.2	550.6	586.7	605.4
150°	64.8	64.8	72.2	102.1	241.6	303.9	357.5	492.0	526.9	560.5	585.4
152.5°	64.8	64.8	71.0	84.7	184.4	250.4	305.2	399.8	516.9	530.6	554.3
155°	64.8	64.8	69.8	77.2	124.6	184.4	247.9	333.8	419.8	518.2	529.4
157.5°	66.0	66.0	68.5	74.7	92.2	122.1	175.6	275.3	343.8	423.5	502.0
160°	66.0	66.0	67.3	73.5	79.7	88.4	108.4	193.1	276.5	331.3	388.6
162.5°	66.0	66.0	67.3	71.0	76.0	78.5	83.5	117.1	193.1	267.8	311.4
165°	66.0	66.0	66.0	68.5	73.5	74.7	77.2	84.7	107.1	156.9	214.2
167.5°	66.0	66.0	66.0	67.3	69.8	72.2	73.5	77.2	81.0	87.2	107.1
170°	66.0	66.0	66.0	66.0	67.3	68.5	69.8	72.2	74.7	76.0	78.5
172.5°	64.8	66.0	64.8	64.8	64.8	66.0	66.0	67.3	68.5	69.8	71.0
175°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	66.0
177.5°	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	63.5	63.5
180°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0	8951.0
2.5°	9178.9	9187.6	9191.4	9232.5	9236.2	9231.2	9237.5	9279.8	9281.1	9281.1
5°	9657.2	9748.2	9855.3	9931.3	9961.2	9972.4	10062.1	10105.7	10116.9	10196.6
7.5°	10518.0	10646.3	10804.4	10942.7	11022.4	11068.5	11152.0	11255.4	11299.0	11387.4
10°	11340.1	11595.4	11803.4	11981.5	12101.1	12147.2	12260.6	12395.1	12492.2	12497.2
12.5°	12084.9	12392.6	12634.2	12856.0	12925.7	13007.9	13142.5	13235.9	13323.1	13345.5
15°	12686.6	12969.3	13222.2	13445.1	13532.3	13592.1	13727.9	13828.8	13879.9	13912.2
17.5°	13064.0	13338.0	13573.4	13772.7	13841.2	13911.0	14025.6	14112.8	14170.1	14190.0
20°	13216.0	13478.8	13695.5	13883.6	13950.9	14010.7	14120.3	14207.5	14262.3	14278.5
22.5°	13213.5	13456.4	13675.6	13852.5	13922.2	13989.5	14099.1	14176.3	14229.9	14253.5
25°	13065.2	13310.6	13507.4	13645.7	13683.1	13722.9	13776.5	13785.2	13816.3	13774.0
27.5°	12768.8	12980.5	13077.7	13112.6	13107.6	13097.6	13061.5	13027.9	13022.9	12979.3
30°	12274.3	12397.6	12441.2	12411.3	12422.5	12347.8	12334.1	12314.1	12349.0	12373.9
32.5°	11637.8	11696.3	11635.3	11599.1	11574.2	11560.5	11569.3	11573.0	11561.8	11546.8
35°	10889.1	10834.3	10764.6	10656.2	10635.0	10592.7	10519.2	10465.6	10422.0	10348.6
37.5°	10082.0	9994.8	9921.3	9789.3	9702.1	9662.2	9507.8	9398.1	9288.5	9253.7
40°	9273.6	9169.0	9078.0	8929.8	8858.8	8779.1	8573.6	8485.1	8391.7	8330.7
42.5°	8518.7	8440.3	8300.8	8141.3	8010.5	7912.1	7750.2	7633.1	7565.9	7522.3
45°	7781.3	7680.4	7504.8	7332.9	7230.8	7131.1	6980.4	6875.8	6778.6	6742.5
47.5°	7085.0	6946.8	6806.0	6626.7	6515.8	6437.3	6336.4	6213.1	6135.9	6098.5
50°	6376.3	6271.7	6120.9	5950.3	5886.8	5804.6	5686.2	5597.8	5538.0	5528.0
52.5°	5752.2	5658.8	5524.3	5368.6	5290.1	5249.0	5135.7	5057.2	5023.6	4999.9
55°	5190.5	5108.3	4972.5	4852.9	4791.9	4747.0	4646.1	4572.6	4546.5	4499.2
57.5°	4662.3	4603.8	4506.6	4380.8	4339.7	4273.7	4159.1	4081.9	4008.4	3974.8
60°	4200.2	4130.5	4017.1	3906.2	3827.8	3758.0	3644.7	3567.4	3491.5	3489.0
62.5°	3759.3	3665.8	3533.8	3401.8	3348.2	3302.1	3182.5	3102.8	3059.2	3055.5
65°	3283.4	3196.2	3086.6	2992.0	2929.7	2887.3	2822.6	2739.1	2686.8	2668.1
67.5°	2859.9	2793.9	2706.7	2624.5	2580.9	2542.3	2446.4	2380.4	2328.1	2314.3
70°	2501.2	2441.4	2371.6	2278.2	2239.6	2196.0	2116.3	2045.3	1995.5	1996.7
72.5°	2169.9	2116.3	2051.5	1969.3	1929.5	1902.1	1828.6	1777.5	1732.6	1718.9
75°	1863.4	1817.3	1777.5	1707.7	1679.1	1644.2	1575.7	1528.4	1493.5	1477.3
77.5°	1599.4	1565.7	1508.4	1441.2	1418.8	1373.9	1312.9	1268.0	1233.2	1231.9
80°	1331.6	1280.5	1233.2	1172.1	1144.7	1114.8	1055.0	1016.4	991.5	990.3
82.5°	1072.5	1028.9	982.8	925.5	906.8	884.4	848.3	810.9	793.5	776.0
85°	839.5	798.4	759.8	722.5	698.8	686.3	649.0	634.0	606.6	604.1
87.5°	625.3	595.4	576.7	543.1	531.9	523.2	499.5	477.1	468.4	457.1
90°	448.4	423.5	409.8	388.6	386.1	373.7	363.7	347.5	333.8	327.6
92.5°	381.2	355.0	340.1	323.9	316.4	312.6	298.9	287.7	282.8	276.5
95°	328.8	307.7	294.0	282.8	277.8	272.8	264.1	257.8	250.4	246.6
97.5°	294.0	277.8	266.6	256.6	252.9	250.4	242.9	236.7	231.7	227.9
100°	276.5	260.3	250.4	242.9	237.9	235.4	229.2	224.2	220.5	218.0
102.5°	269.1	254.1	245.4	239.2	236.7	232.9	227.9	224.2	220.5	218.0
105°	264.1	254.1	245.4	240.4	239.2	236.7	231.7	229.2	226.7	223.0
107.5°	264.1	240.4	235.4	240.4	240.4	237.9	234.2	231.7	229.2	226.7
110°	287.7	262.8	246.6	232.9	226.7	223.0	219.2	221.7	224.2	220.5





TEST NUMBER: P236398

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	310.2	286.5	266.6	250.4	245.4	240.4	237.9	235.4	230.4	229.2
115°	326.4	300.2	285.2	274.0	269.1	265.3	257.8	251.6	247.9	242.9
117.5°	343.8	316.4	296.5	282.8	279.0	276.5	272.8	269.1	265.3	262.8
120°	360.0	332.6	311.4	297.7	292.7	287.7	282.8	276.5	271.5	267.8
122.5°	373.7	348.8	327.6	311.4	307.7	302.7	295.2	289.0	282.8	280.3
125°	394.9	365.0	342.5	327.6	322.6	318.9	310.2	303.9	296.5	292.7
127.5°	418.5	386.1	362.5	343.8	337.6	331.3	322.6	315.1	308.9	306.4
130°	462.1	413.5	384.9	363.7	356.2	350.0	340.1	330.1	322.6	320.1
132.5°	564.3	470.8	416.0	388.6	379.9	368.7	357.5	347.5	338.8	336.3
135°	607.9	561.8	530.6	432.2	413.5	402.3	381.2	369.9	358.7	358.7
137.5°	592.9	597.9	585.4	546.8	536.9	524.4	449.7	411.1	396.1	392.4
140°	606.6	589.2	575.5	597.9	592.9	584.2	541.8	528.1	519.4	514.4
142.5°	612.8	604.1	590.4	576.7	573.0	568.0	576.7	585.4	585.4	581.7
145°	615.3	610.4	604.1	595.4	591.7	586.7	580.5	573.0	566.8	564.3
147.5°	611.6	611.6	607.9	604.1	600.4	597.9	591.7	586.7	580.5	578.0
150°	601.6	607.9	607.9	607.9	606.6	605.4	599.1	592.9	589.2	586.7
152.5°	579.2	592.9	600.4	602.9	604.1	606.6	606.6	605.4	601.6	599.1
155°	545.6	564.3	576.7	584.2	586.7	587.9	591.7	590.4	589.2	586.7
157.5°	528.1	528.1	545.6	560.5	563.0	566.8	570.5	570.5	566.8	565.5
160°	459.6	513.2	528.1	523.2	524.4	528.1	534.4	539.4	543.1	539.4
162.5°	347.5	384.9	432.2	478.3	493.3	504.5	523.2	521.9	518.2	516.9
165°	262.8	303.9	325.1	343.8	357.5	367.5	384.9	399.8	404.8	406.1
167.5°	149.5	183.1	218.0	245.4	256.6	271.5	277.8	291.5	295.2	289.0
170°	82.2	89.7	98.4	112.1	114.6	124.6	135.8	156.9	160.7	150.7
172.5°	73.5	74.7	76.0	77.2	77.2	77.2	77.2	77.2	73.5	69.8
175°	66.0	67.3	67.3	68.5	68.5	68.5	67.3	64.8	61.0	58.5
177.5°	63.5	63.5	63.5	63.5	63.5	63.5	62.3	58.5	54.8	52.3
180°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5

(END OF REPORT)