

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: P236374

Luminaire Tested: **SKB2-LD5-15-N-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB2-LD5-15-N-UNV-L840-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

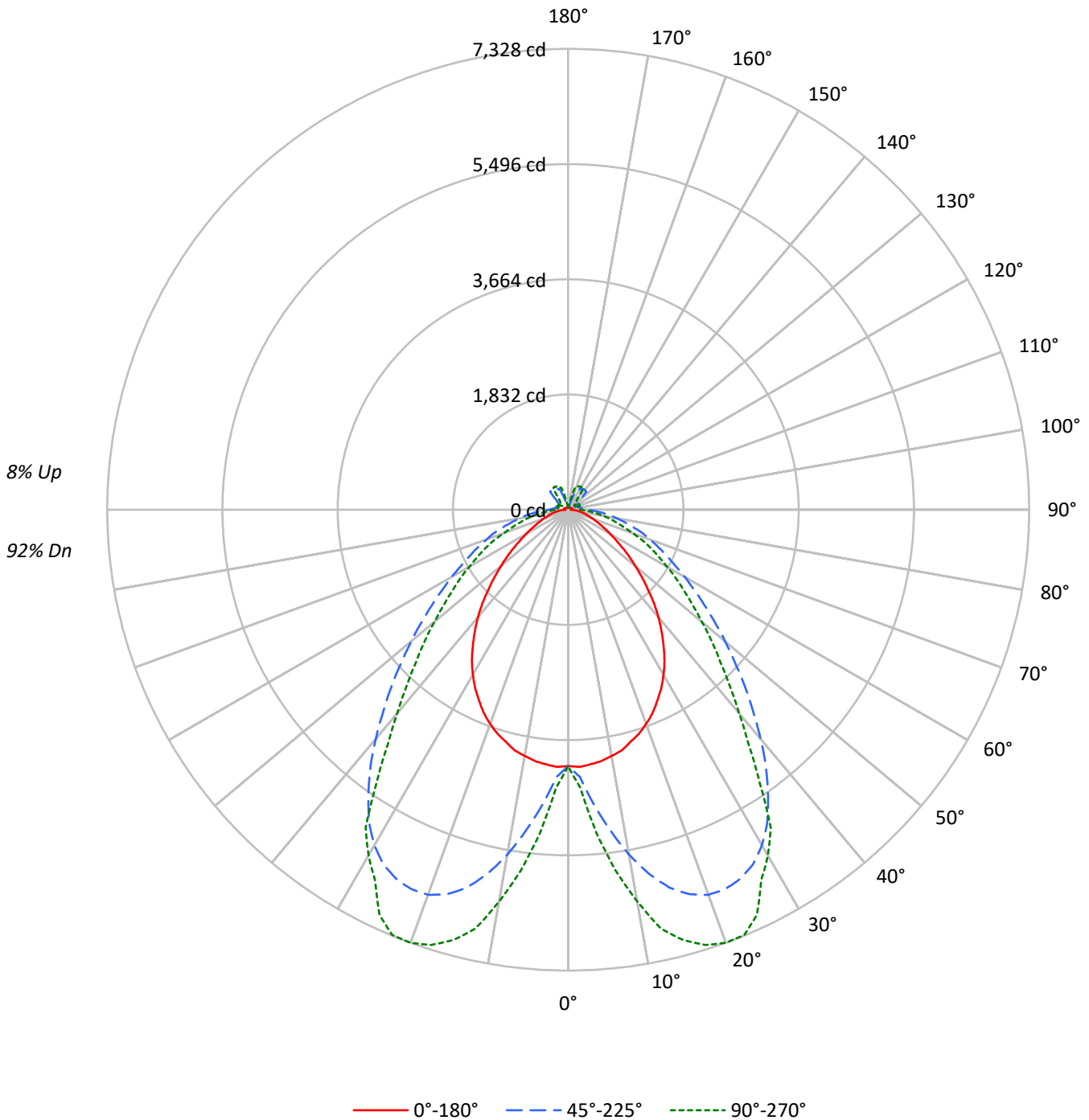
Lumens per Lamp: N/A
Luminaire Lumens: 16920.0 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.63 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 132.4
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	95	95	95	92
1	107	102	98	94	103	99	95	92	93	90	88	88	86	83	83	81	80	77
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	74	71	68	65
3	90	79	72	65	86	77	70	64	73	67	62	69	64	60	66	62	58	56
4	82	71	62	56	79	69	61	55	65	59	53	62	57	52	59	54	50	48
5	76	64	55	49	73	62	54	48	59	52	47	56	50	45	54	48	44	42
6	70	57	49	43	68	56	48	42	53	46	41	51	45	40	49	43	39	37
7	65	52	44	38	63	51	43	37	49	42	37	47	40	36	45	39	35	33
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32	41	36	32	30
9	57	44	36	30	55	43	35	30	41	34	30	40	33	29	38	33	29	27
10	53	40	33	28	52	40	32	27	38	32	27	37	31	26	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17549	17549	17549
5°	17406	20024	21974
10°	17072	23557	26870
15°	16574	26381	30245
20°	16002	27915	31658
25°	15179	28243	31299
30°	14207	27585	28794
35°	12959	25664	25014
40°	11536	23052	20859
45°	9886	20312	17835
50°	8331	17766	15501
55°	6883	15572	13657
60°	5632	13844	12128
65°	4686	12414	10918
70°	4013	11348	9391
75°	3513	10335	8234
80°	3128	9298	7259
85°	2708	8186	6010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.9	2.8
10°-20°	1666.4	9.8
20°-30°	2731.5	16.1
30°-40°	3052.4	18.0
40°-50°	2659.3	15.7
50°-60°	2046.8	12.1
60°-70°	1468.5	8.7
70°-80°	969.7	5.7
80°-90°	524.2	3.1
90°-100°	232.2	1.4
100°-110°	185.0	1.1
110°-120°	185.4	1.1
120°-130°	179.3	1.1
130°-140°	194.3	1.1
140°-150°	193.0	1.1
150°-160°	122.5	0.7
160°-170°	38.7	0.2
170°-180°	3.9	0.0
0°-30°	4864.8	28.8
0°-40°	7917.2	46.8
0°-60°	12623.3	74.6
0°-90°	15585.7	92.1
90°-120°	602.6	3.6
90°-150°	1169.2	6.9
90°-180°	1334.0	7.9
0°-180°	16920.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4076	4076	4076	4076	4076	
5°	4064	4292	4711	5018	5158	385
15°	3822	5001	6222	6922	7088	1078
25°	3350	5157	6476	7045	7100	1540
35°	2645	4517	5538	5474	5314	1648
45°	1793	3381	3975	3656	3417	1388
55°	1053	2297	2642	2410	2252	950
65°	563	1534	1719	1576	1455	567
75°	293	1064	1065	911	803	315
85°	120	690	528	413	353	114
90°	45	412	302	226	194	30
95°	60	285	228	185	168	49
105°	65	173	190	170	163	69
115°	57	305	129	192	201	58
125°	50	362	201	137	122	45
135°	40	328	407	209	182	31
145°	34	250	403	419	415	22
155°	33	70	365	398	412	15
165°	33	46	88	213	261	9
175°	33	34	40	43	36	3
180°	31	31	31	31	31	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0
2.5°	4093.1	4084.5	4103.4	4120.6	4122.3	4134.3	4132.6	4154.9	4182.3	4216.6	4250.9
5°	4063.9	4069.1	4113.7	4182.3	4240.6	4292.1	4319.5	4413.9	4492.8	4602.6	4710.7
7.5°	4033.1	4046.8	4142.9	4274.9	4408.8	4484.2	4552.9	4715.8	4859.9	5012.6	5144.7
10°	3976.5	4009.0	4172.0	4386.5	4595.7	4702.1	4799.9	4998.9	5206.4	5398.6	5570.1
12.5°	3921.6	3974.7	4196.0	4473.9	4736.4	4870.2	4998.9	5254.5	5489.5	5734.8	5928.7
15°	3822.1	3914.7	4209.8	4547.7	4863.4	5000.6	5161.8	5456.9	5734.8	5988.7	6222.0
17.5°	3736.3	3856.4	4202.9	4585.4	4954.3	5115.5	5276.8	5592.4	5897.8	6187.7	6410.7
20°	3624.8	3777.5	4182.3	4602.6	4990.3	5177.3	5352.3	5691.9	6012.7	6288.9	6517.1
22.5°	3503.0	3681.4	4130.8	4575.2	4986.9	5180.7	5371.1	5714.2	6033.3	6309.5	6529.1
25°	3350.3	3569.9	4039.9	4513.4	4940.5	5156.7	5330.0	5671.3	5988.7	6252.9	6475.9
27.5°	3201.1	3439.5	3937.0	4420.8	4856.5	5060.6	5232.2	5592.4	5899.5	6148.2	6361.0
30°	3029.5	3288.6	3803.2	4287.0	4722.7	4923.4	5106.9	5441.5	5734.8	5980.1	6162.0
32.5°	2849.4	3115.3	3640.2	4113.7	4537.4	4751.8	4918.2	5245.9	5532.4	5733.1	5892.6
35°	2645.3	2935.2	3436.1	3914.7	4321.3	4516.8	4684.9	4992.0	5261.3	5443.2	5537.5
37.5°	2434.2	2734.5	3230.2	3674.5	4081.1	4245.8	4408.8	4719.3	4940.5	5100.1	5167.0
40°	2231.8	2513.2	2984.9	3436.1	3806.6	3973.0	4117.1	4398.5	4614.6	4724.4	4760.4
42.5°	2017.4	2300.4	2744.7	3165.0	3521.9	3681.4	3825.5	4072.5	4261.2	4359.0	4350.4
45°	1792.7	2077.4	2489.1	2900.9	3240.5	3381.2	3523.6	3736.3	3907.8	3974.7	3974.7
47.5°	1588.5	1847.6	2261.0	2626.4	2952.3	3093.0	3223.4	3422.4	3563.0	3611.1	3593.9
50°	1398.1	1640.0	2020.8	2363.9	2681.3	2820.2	2930.0	3125.6	3247.4	3269.7	3257.7
52.5°	1219.7	1442.7	1801.2	2137.5	2427.4	2549.2	2662.4	2837.4	2936.9	2959.2	2936.9
55°	1053.3	1264.3	1597.1	1916.2	2188.9	2297.0	2411.9	2561.2	2640.1	2647.0	2641.8
57.5°	900.6	1106.5	1418.7	1717.2	1967.6	2079.1	2171.8	2310.7	2360.5	2379.4	2370.8
60°	772.0	967.5	1255.7	1542.2	1775.5	1876.7	1962.5	2058.6	2118.6	2123.7	2140.9
62.5°	658.7	845.7	1121.9	1382.7	1609.1	1694.9	1770.4	1857.9	1900.7	1907.6	1907.6
65°	562.7	739.4	1005.3	1243.7	1453.0	1533.6	1593.7	1674.3	1701.7	1701.7	1718.9
67.5°	480.3	651.9	900.6	1135.6	1324.3	1386.1	1447.9	1504.5	1514.8	1535.3	1547.4
70°	410.0	578.1	811.4	1039.6	1202.5	1269.4	1315.8	1348.4	1370.7	1370.7	1375.8
72.5°	346.5	509.5	734.2	953.8	1109.9	1157.9	1190.5	1226.6	1235.1	1233.4	1236.9
75°	293.3	452.9	674.2	868.0	1017.3	1063.6	1089.3	1113.3	1108.2	1097.9	1065.3
77.5°	247.0	401.4	621.0	808.0	933.2	981.2	1000.1	1008.7	981.2	946.9	916.1
80°	200.7	353.4	562.7	739.4	857.7	895.5	905.8	874.9	844.0	816.6	782.3
82.5°	157.8	308.8	512.9	679.3	777.1	789.1	792.5	760.0	732.5	698.2	663.9
85°	120.1	265.9	456.3	598.7	674.2	689.6	684.5	646.7	605.6	567.8	528.4
87.5°	80.6	217.9	387.7	506.1	562.7	564.4	552.4	518.1	485.5	447.7	406.6
90°	44.6	152.7	286.5	368.8	415.1	411.7	415.1	387.7	362.0	332.8	301.9
92.5°	51.5	116.7	207.6	291.6	341.4	346.5	350.0	331.1	308.8	286.5	257.3
95°	60.0	102.9	145.8	219.6	271.0	284.8	288.2	283.1	271.0	253.9	228.2
97.5°	61.8	106.4	151.0	154.4	219.6	236.7	247.0	245.3	235.0	221.3	209.3
100°	63.5	114.9	173.3	166.4	157.8	185.3	204.1	219.6	217.9	207.6	192.1
102.5°	65.2	120.1	200.7	192.1	164.7	147.5	152.7	192.1	202.4	199.0	190.4
105°	65.2	123.5	207.6	224.7	190.4	173.3	154.4	152.7	180.1	192.1	190.4
107.5°	65.2	120.1	212.7	262.5	223.0	200.7	181.8	144.1	133.8	175.0	185.3
110°	63.5	114.9	217.9	291.6	252.2	231.6	209.3	166.4	137.2	120.1	173.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	60.0	99.5	217.9	289.9	295.1	260.8	236.7	192.1	154.4	132.1	114.9
115°	56.6	85.8	214.4	289.9	348.2	305.4	262.5	219.6	178.4	149.2	128.7
117.5°	56.6	77.2	214.4	291.6	348.2	368.8	313.9	245.3	200.7	169.8	142.4
120°	54.9	70.3	209.3	291.6	348.2	368.8	386.0	277.9	224.7	190.4	164.7
122.5°	51.5	63.5	195.6	286.5	344.8	365.4	380.8	337.9	253.9	212.7	181.8
125°	49.7	56.6	163.0	281.3	339.7	362.0	379.1	401.4	293.3	233.3	200.7
127.5°	48.0	53.2	135.5	283.1	332.8	355.1	374.0	398.0	387.7	267.6	224.7
130°	44.6	51.5	109.8	276.2	324.2	346.5	367.1	391.1	404.9	351.7	257.3
132.5°	41.2	48.0	87.5	245.3	315.6	337.9	356.8	386.0	401.4	408.3	322.5
135°	39.5	44.6	66.9	205.9	312.2	327.7	346.5	380.8	399.7	408.3	406.6
137.5°	37.7	44.6	60.0	163.0	312.2	324.2	336.2	368.8	392.8	406.6	406.6
140°	36.0	42.9	49.7	125.2	284.8	325.9	331.1	360.2	386.0	403.1	411.7
142.5°	36.0	41.2	48.0	97.8	229.9	303.6	331.1	348.2	375.7	398.0	410.0
145°	34.3	39.5	46.3	72.0	175.0	250.5	317.4	341.4	363.7	386.0	403.1
147.5°	34.3	37.7	44.6	58.3	132.1	192.1	260.8	346.5	353.4	374.0	391.1
150°	32.6	37.7	44.6	48.0	97.8	137.2	195.6	315.6	355.1	360.2	379.1
152.5°	32.6	36.0	44.6	48.0	70.3	99.5	139.0	238.5	332.8	362.0	365.4
155°	32.6	36.0	42.9	46.3	54.9	70.3	94.4	169.8	262.5	348.2	365.4
157.5°	32.6	36.0	41.2	46.3	48.0	53.2	66.9	111.5	185.3	264.2	336.2
160°	32.6	34.3	41.2	44.6	48.0	48.0	49.7	77.2	114.9	175.0	235.0
162.5°	32.6	34.3	37.7	42.9	46.3	48.0	48.0	51.5	73.8	106.4	149.2
165°	32.6	34.3	37.7	41.2	44.6	46.3	48.0	49.7	49.7	61.8	87.5
167.5°	32.6	32.6	36.0	39.5	42.9	44.6	44.6	48.0	48.0	49.7	51.5
170°	32.6	32.6	34.3	37.7	39.5	41.2	42.9	44.6	46.3	48.0	48.0
172.5°	32.6	32.6	34.3	34.3	36.0	37.7	37.7	39.5	42.9	42.9	44.6
175°	32.6	32.6	32.6	32.6	34.3	34.3	34.3	36.0	36.0	37.7	39.5
177.5°	30.9	30.9	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6	34.3
180°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0	4076.0
2.5°	4309.3	4305.8	4338.4	4384.7	4376.2	4395.0	4420.8	4448.2	4451.6	4427.6
5°	4786.2	4841.1	4923.4	4983.4	5017.7	5033.2	5079.5	5106.9	5093.2	5158.4
7.5°	5305.9	5388.3	5492.9	5590.7	5630.2	5642.2	5686.8	5764.0	5757.1	5788.0
10°	5746.8	5866.9	6000.7	6127.7	6163.7	6203.1	6271.8	6321.5	6340.4	6326.6
12.5°	6132.8	6292.3	6419.3	6527.4	6597.7	6666.3	6726.4	6772.7	6813.8	6824.1
15°	6431.3	6589.1	6736.6	6875.6	6921.9	6959.7	7036.9	7078.0	7081.5	7088.3
17.5°	6621.7	6762.4	6906.5	7024.8	7079.7	7115.8	7177.5	7229.0	7244.4	7258.1
20°	6714.3	6843.0	6982.0	7091.7	7148.4	7182.7	7246.1	7280.4	7306.2	7328.5
22.5°	6719.5	6853.3	6990.5	7096.9	7146.6	7186.1	7246.1	7285.6	7306.2	7318.2
25°	6647.4	6784.7	6921.9	6997.4	7045.4	7081.5	7095.2	7090.0	7086.6	7100.3
27.5°	6515.3	6628.6	6712.6	6743.5	6729.8	6733.2	6702.3	6666.3	6652.6	6645.7
30°	6282.0	6361.0	6364.4	6361.0	6342.1	6352.4	6326.6	6316.4	6340.4	6348.9
32.5°	5961.3	5988.7	6005.9	5964.7	5964.7	5963.0	5973.3	5947.5	5961.3	5992.1
35°	5594.1	5556.4	5554.7	5494.6	5474.1	5463.8	5405.4	5359.1	5328.2	5314.5
37.5°	5160.1	5110.4	5094.9	5019.5	4990.3	4961.1	4870.2	4786.2	4739.8	4714.1
40°	4739.8	4684.9	4650.6	4558.0	4513.4	4480.8	4401.9	4304.1	4285.2	4230.3
42.5°	4319.5	4293.8	4201.2	4137.7	4065.7	4017.6	3940.4	3875.2	3822.1	3798.0
45°	3952.4	3889.0	3808.3	3705.4	3655.7	3607.6	3525.3	3468.7	3441.2	3417.2
47.5°	3571.6	3509.8	3441.2	3343.4	3304.0	3262.8	3192.5	3134.2	3106.7	3094.7
50°	3231.9	3173.6	3105.0	2990.1	2966.0	2923.2	2859.7	2818.5	2785.9	2773.9
52.5°	2906.0	2861.4	2785.9	2701.9	2679.6	2631.5	2583.5	2532.0	2514.9	2494.3
55°	2621.2	2566.3	2511.4	2444.5	2410.2	2381.1	2329.6	2281.6	2273.0	2252.4
57.5°	2367.3	2312.5	2250.7	2190.7	2175.2	2149.5	2094.6	2065.4	2034.5	2032.8
60°	2110.0	2080.9	2038.0	1984.8	1969.4	1938.5	1887.0	1847.6	1820.1	1815.0
62.5°	1895.6	1871.6	1828.7	1780.7	1761.8	1737.8	1694.9	1650.3	1633.1	1622.8
65°	1710.3	1681.2	1641.7	1604.0	1576.5	1571.4	1521.6	1482.2	1459.9	1454.7
67.5°	1525.1	1514.8	1482.2	1446.1	1423.8	1396.4	1355.2	1312.3	1290.0	1276.3
70°	1370.7	1351.8	1310.6	1255.7	1231.7	1216.3	1156.2	1120.2	1099.6	1087.6
72.5°	1209.4	1176.8	1127.1	1080.7	1056.7	1036.1	996.7	962.4	946.9	933.2
75°	1036.1	1008.7	969.2	934.9	910.9	895.5	862.9	828.6	811.4	802.8
77.5°	893.8	862.9	842.3	808.0	784.0	765.1	735.9	705.1	696.5	686.2
80°	758.2	734.2	711.9	677.6	655.3	639.9	610.7	583.3	567.8	569.5
82.5°	624.4	600.4	571.3	542.1	528.4	511.2	488.9	470.0	464.9	454.6
85°	495.8	473.5	451.2	425.4	413.4	403.1	380.8	367.1	356.8	353.4
87.5°	382.5	360.2	339.7	319.1	312.2	301.9	284.8	279.6	271.0	262.5
90°	276.2	260.8	245.3	233.3	226.4	219.6	211.0	205.9	197.3	193.8
92.5°	236.7	219.6	209.3	199.0	197.3	192.1	185.3	180.1	175.0	171.5
95°	211.0	200.7	193.8	187.0	185.3	181.8	176.7	175.0	171.5	168.1
97.5°	197.3	188.7	183.6	180.1	180.1	178.4	176.7	173.3	171.5	169.8
100°	181.8	171.5	171.5	173.3	173.3	173.3	173.3	173.3	171.5	169.8
102.5°	180.1	171.5	169.8	166.4	166.4	163.0	163.0	161.3	159.5	157.8
105°	183.6	178.4	173.3	171.5	169.8	169.8	166.4	164.7	163.0	163.0
107.5°	187.0	185.3	183.6	180.1	180.1	180.1	176.7	176.7	175.0	171.5
110°	183.6	187.0	188.7	188.7	188.7	188.7	188.7	188.7	185.3	185.3



TEST NUMBER: P236374

CATALOG NUMBER: SKB2-LD5-15-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	171.5	181.8	188.7	195.6	195.6	197.3	197.3	197.3	197.3	195.6
115°	116.7	121.8	181.8	190.4	192.1	195.6	199.0	202.4	202.4	200.7
117.5°	130.4	118.4	111.5	108.1	149.2	173.3	195.6	202.4	200.7	200.7
120°	144.1	130.4	121.8	114.9	114.9	111.5	109.8	109.8	109.8	116.7
122.5°	163.0	145.8	132.1	125.2	123.5	121.8	120.1	116.7	114.9	113.2
125°	180.1	164.7	151.0	139.0	137.2	133.8	130.4	126.9	125.2	121.8
127.5°	197.3	180.1	168.1	159.5	156.1	154.4	144.1	140.7	135.5	135.5
130°	221.3	199.0	183.6	175.0	169.8	168.1	163.0	159.5	156.1	154.4
132.5°	252.2	223.0	205.9	193.8	188.7	185.3	178.4	173.3	168.1	168.1
135°	329.4	260.8	231.6	216.1	209.3	205.9	197.3	190.4	183.6	181.8
137.5°	404.9	372.3	279.6	248.7	240.2	231.6	219.6	211.0	204.1	204.1
140°	410.0	408.3	408.3	334.5	303.6	284.8	255.6	241.9	235.0	228.2
142.5°	413.4	415.1	410.0	413.4	415.1	413.4	398.0	350.0	319.1	317.4
145°	411.7	416.9	416.9	416.9	418.6	418.6	416.9	418.6	413.4	415.1
147.5°	406.6	413.4	418.6	423.7	420.3	423.7	425.4	425.4	423.7	423.7
150°	392.8	406.6	415.1	420.3	418.6	420.3	420.3	422.0	416.9	416.9
152.5°	379.1	392.8	403.1	413.4	413.4	416.9	416.9	416.9	415.1	415.1
155°	363.7	374.0	386.0	396.3	398.0	401.4	406.6	408.3	411.7	411.7
157.5°	365.4	365.4	368.8	375.7	377.4	380.8	384.3	387.7	389.4	391.1
160°	296.8	350.0	367.1	375.7	372.3	368.8	367.1	370.5	367.1	370.5
162.5°	200.7	233.3	281.3	320.8	339.7	353.4	358.5	363.7	365.4	368.8
165°	109.8	137.2	169.8	207.6	212.7	221.3	236.7	247.0	264.2	260.8
167.5°	56.6	75.5	87.5	97.8	104.6	109.8	130.4	135.5	132.1	140.7
170°	49.7	49.7	51.5	51.5	53.2	54.9	56.6	66.9	61.8	58.3
172.5°	46.3	46.3	48.0	48.0	49.7	49.7	48.0	46.3	44.6	42.9
175°	39.5	41.2	42.9	42.9	42.9	44.6	42.9	41.2	39.5	36.0
177.5°	34.3	34.3	34.3	36.0	36.0	36.0	34.3	32.6	30.9	29.2
180°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9

(END OF REPORT)