

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: P236385

Luminaire Tested: **SKB2-LD5-15-W-UNV-L835-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB2-LD5-15-W-UNV-L835-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

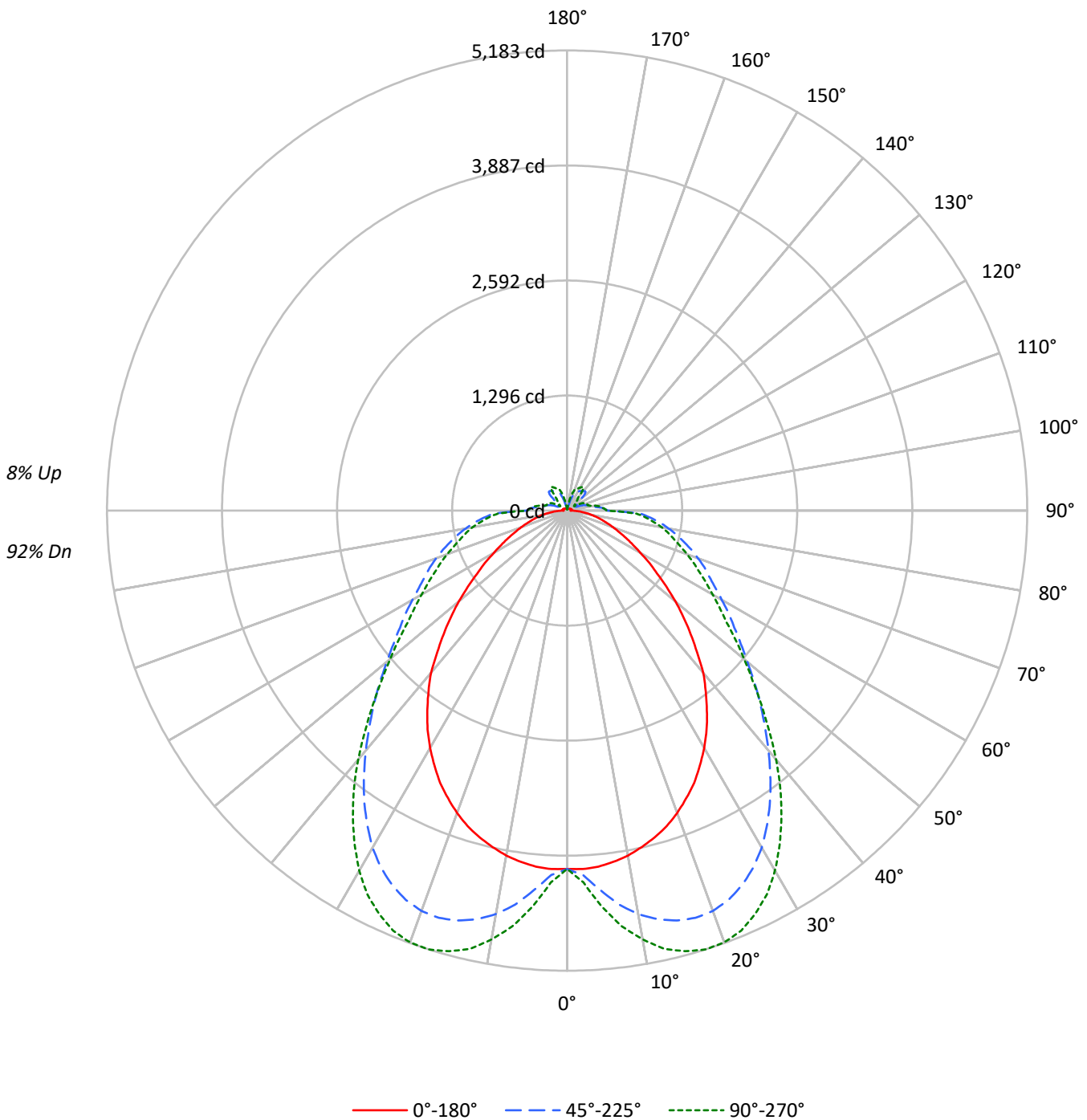
Lumens per Lamp: N/A
Luminaire Lumens: 15081.0 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

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	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	78	76	74
2	95	87	79	73	92	84	77	72	79	74	69	75	70	66	70	67	63	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	80	67	58	52	77	66	57	51	62	55	49	59	53	48	56	50	46	44
5	73	60	51	45	71	59	50	44	56	48	43	53	46	41	50	45	40	38
6	68	54	45	39	65	53	45	38	50	43	37	48	41	36	46	40	36	33
7	63	49	41	34	61	48	40	34	46	39	33	44	37	32	42	36	32	30
8	59	45	37	31	57	44	36	30	42	35	30	40	34	29	38	33	28	26
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17379	17379	17379
5°	17245	18244	19065
10°	16939	19518	20829
15°	16526	20266	21923
20°	16000	20553	22355
25°	15331	20310	22093
30°	14473	19621	21235
35°	13446	18473	19806
40°	12326	17078	18062
45°	10851	15720	16151
50°	9480	14446	14530
55°	8099	13552	13277
60°	6969	13007	12654
65°	6092	12765	12345
70°	5399	12930	12402
75°	4855	13183	12765
80°	4352	13793	13784
85°	3642	14642	15072



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	415.9	2.8
10°-20°	1314.5	8.7
20°-30°	2059.0	13.7
30°-40°	2368.5	15.7
40°-50°	2214.5	14.7
50°-60°	1863.9	12.4
60°-70°	1537.2	10.2
70°-80°	1234.9	8.2
80°-90°	845.6	5.6
90°-100°	340.3	2.3
100°-110°	208.0	1.4
110°-120°	151.0	1.0
120°-130°	130.8	0.9
130°-140°	145.7	1.0
140°-150°	139.0	0.9
150°-160°	82.5	0.5
160°-170°	27.1	0.2
170°-180°	2.5	0.0
0°-30°	3789.4	25.1
0°-40°	6157.9	40.8
0°-60°	10236.3	67.9
0°-90°	13854.0	91.9
90°-120°	699.4	4.6
90°-150°	1114.9	7.4
90°-180°	1227.0	8.1
0°-180°	15081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4036	4036	4036	4036	4036	
5°	4026	4115	4292	4442	4475	382
15°	3811	4322	4780	5059	5138	1073
25°	3384	4107	4657	4934	5012	1553
35°	2745	3493	3986	4186	4208	1714
45°	1968	2652	3076	3143	3095	1520
55°	1240	1942	2299	2259	2190	1121
65°	732	1468	1768	1685	1645	731
75°	405	1130	1359	1270	1245	431
85°	162	797	945	888	886	157
90°	40	358	456	446	447	32
95°	50	246	382	392	394	40
105°	50	123	232	242	239	53
115°	42	195	104	180	200	43
125°	37	234	153	109	98	33
135°	29	217	293	175	155	23
145°	24	168	269	318	321	15
155°	22	67	230	261	267	10
165°	22	30	79	148	170	6
175°	20	20	24	25	20	2
180°	18	18	18	18	18	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4
2.5°	4041.4	4044.8	4053.2	4066.7	4068.4	4063.3	4056.6	4068.4	4063.3	4088.5	4108.7
5°	4026.3	4029.7	4048.2	4086.9	4100.3	4115.4	4120.5	4162.5	4196.2	4245.0	4292.0
7.5°	3991.0	4011.2	4041.4	4107.0	4162.5	4186.1	4211.3	4276.9	4344.2	4414.8	4475.4
10°	3945.6	3970.8	4033.0	4128.9	4214.7	4256.7	4293.7	4387.9	4461.9	4539.3	4615.0
12.5°	3881.7	3918.7	4002.8	4139.0	4253.4	4298.8	4345.9	4450.1	4539.3	4633.5	4714.2
15°	3811.0	3859.8	3970.8	4137.3	4263.5	4322.3	4372.8	4483.8	4586.4	4687.3	4779.8
17.5°	3726.9	3784.1	3927.1	4110.4	4250.0	4312.2	4367.7	4485.5	4598.1	4704.1	4810.0
20°	3624.4	3696.7	3868.2	4061.6	4204.6	4273.5	4330.7	4458.5	4579.6	4697.4	4798.3
22.5°	3506.6	3594.1	3780.8	3987.6	4137.3	4204.6	4265.1	4404.7	4534.2	4643.5	4747.8
25°	3383.9	3478.0	3681.5	3890.1	4044.8	4107.0	4174.3	4320.6	4441.7	4554.4	4657.0
27.5°	3237.5	3340.1	3563.8	3774.0	3923.7	3996.0	4061.6	4199.5	4324.0	4441.7	4537.6
30°	3086.2	3197.2	3425.9	3619.3	3775.7	3858.1	3917.0	4049.9	4181.0	4288.7	4382.9
32.5°	2924.7	3030.7	3262.8	3462.9	3610.9	3688.3	3745.4	3876.6	3997.7	4096.9	4192.8
35°	2744.8	2862.5	3089.5	3279.6	3424.2	3493.2	3550.4	3693.3	3799.3	3900.2	3985.9
37.5°	2564.8	2675.8	2892.8	3089.5	3230.8	3294.7	3346.9	3488.1	3587.4	3678.2	3758.9
40°	2384.8	2480.7	2696.0	2872.6	3018.9	3074.4	3136.6	3256.0	3363.7	3456.2	3526.8
42.5°	2164.5	2283.9	2497.5	2670.8	2801.9	2869.2	2928.1	3052.5	3143.3	3225.8	3294.7
45°	1967.7	2092.2	2289.0	2463.9	2598.4	2652.3	2711.1	2828.8	2931.4	3003.8	3076.1
47.5°	1776.0	1900.5	2097.2	2260.4	2394.9	2463.9	2511.0	2630.4	2724.6	2803.6	2857.4
50°	1591.0	1717.2	1905.5	2077.1	2204.9	2268.8	2329.3	2437.0	2541.3	2605.2	2648.9
52.5°	1409.4	1538.9	1740.7	1900.5	2035.0	2093.9	2149.4	2270.5	2366.3	2430.3	2465.6
55°	1239.5	1384.1	1582.6	1745.7	1876.9	1942.5	2001.4	2120.8	2201.5	2257.0	2299.1
57.5°	1098.2	1236.1	1436.3	1606.2	1740.7	1799.6	1863.5	1979.5	2056.9	2115.7	2156.1
60°	955.3	1105.0	1311.8	1473.3	1612.9	1681.8	1740.7	1845.0	1930.7	1989.6	2011.5
62.5°	837.6	992.3	1194.1	1358.9	1506.9	1567.5	1628.0	1732.3	1818.1	1863.5	1880.3
65°	731.6	889.7	1091.5	1256.3	1406.0	1468.2	1522.1	1634.7	1700.3	1747.4	1767.6
67.5°	634.1	797.2	1004.1	1168.9	1311.8	1369.0	1427.9	1533.8	1607.8	1654.9	1675.1
70°	551.6	716.5	916.6	1093.2	1227.7	1290.0	1350.5	1449.7	1520.4	1567.5	1567.5
72.5°	472.6	640.8	842.6	1012.5	1153.7	1214.3	1263.1	1372.4	1438.0	1469.9	1466.6
75°	405.3	570.1	777.0	933.4	1076.4	1130.2	1194.1	1293.3	1347.1	1369.0	1358.9
77.5°	339.7	504.6	713.1	872.9	1005.7	1078.1	1125.1	1205.9	1253.0	1273.1	1261.4
80°	279.2	440.6	642.5	800.6	938.5	990.6	1034.3	1111.7	1153.7	1170.6	1160.5
82.5°	220.3	381.8	578.6	733.3	849.3	893.1	938.5	1012.5	1057.9	1073.0	1061.2
85°	161.5	317.9	507.9	644.1	751.8	797.2	840.9	906.5	943.5	960.3	945.2
87.5°	109.3	257.3	427.2	550.0	645.8	686.2	726.6	783.7	825.8	835.9	830.8
90°	40.4	121.1	222.0	280.9	334.7	358.2	376.7	417.1	445.7	459.1	455.8
92.5°	45.4	95.9	169.9	230.4	279.2	306.1	334.7	375.0	407.0	422.1	423.8
95°	50.5	84.1	119.4	176.6	227.0	245.5	265.7	309.5	346.5	373.4	381.8
97.5°	48.8	85.8	114.4	129.5	183.3	206.9	225.4	259.0	282.5	299.4	316.2
100°	50.5	89.1	127.8	122.8	134.5	163.1	188.4	227.0	252.3	267.4	270.8
102.5°	50.5	90.8	143.0	134.5	122.8	124.5	134.5	191.7	223.7	243.9	252.3
105°	50.5	90.8	146.3	148.0	129.5	122.8	119.4	137.9	186.7	217.0	232.1
107.5°	50.5	90.8	148.0	180.0	144.6	134.5	126.1	116.0	127.8	176.6	205.2
110°	48.8	87.5	149.7	190.0	158.1	148.0	141.3	121.1	111.0	124.5	164.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	45.4	75.7	148.0	191.7	186.7	164.8	154.7	134.5	116.0	106.0	116.0
115°	42.0	67.3	146.3	191.7	217.0	195.1	169.9	148.0	129.5	112.7	104.3
117.5°	42.0	63.9	149.7	190.0	225.4	232.1	205.2	161.5	143.0	126.1	111.0
120°	40.4	55.5	139.6	190.0	223.7	240.5	240.5	181.6	154.7	141.3	126.1
122.5°	38.7	45.4	139.6	190.0	222.0	238.8	252.3	240.5	173.2	153.0	139.6
125°	37.0	43.7	126.1	188.4	218.6	233.8	248.9	262.4	206.9	169.9	153.0
127.5°	35.3	42.0	107.6	188.4	215.3	230.4	243.9	267.4	255.6	198.5	169.9
130°	33.6	38.7	95.9	174.9	210.2	223.7	238.8	262.4	284.2	260.7	198.5
132.5°	32.0	37.0	77.4	166.5	208.5	218.6	230.4	255.6	277.5	289.3	264.0
135°	28.6	33.6	65.6	149.7	210.2	217.0	225.4	248.9	270.8	289.3	292.6
137.5°	26.9	32.0	52.1	129.5	195.1	218.6	222.0	240.5	262.4	279.2	296.0
140°	25.2	30.3	38.7	109.3	183.3	203.5	223.7	233.8	254.0	272.5	287.6
142.5°	25.2	28.6	33.6	94.2	163.1	191.7	208.5	228.7	243.9	262.4	279.2
145°	23.5	26.9	32.0	67.3	132.9	168.2	196.8	230.4	237.1	252.3	269.1
147.5°	23.5	25.2	32.0	57.2	112.7	141.3	171.5	210.2	237.1	243.9	259.0
150°	21.9	25.2	30.3	37.0	90.8	117.7	141.3	201.8	223.7	240.5	248.9
152.5°	21.9	23.5	30.3	32.0	65.6	94.2	116.0	166.5	208.5	230.4	245.5
155°	21.9	23.5	28.6	32.0	48.8	67.3	92.5	129.5	176.6	213.6	230.4
157.5°	21.9	23.5	26.9	32.0	33.6	45.4	63.9	104.3	139.6	176.6	215.3
160°	21.9	21.9	26.9	30.3	32.0	33.6	42.0	69.0	107.6	132.9	166.5
162.5°	21.9	21.9	25.2	28.6	32.0	32.0	32.0	47.1	67.3	102.6	124.5
165°	21.9	21.9	23.5	26.9	30.3	30.3	32.0	32.0	38.7	60.5	79.0
167.5°	21.9	21.9	21.9	25.2	26.9	28.6	30.3	30.3	32.0	32.0	40.4
170°	20.2	21.9	21.9	23.5	25.2	25.2	26.9	28.6	30.3	30.3	32.0
172.5°	20.2	20.2	20.2	21.9	21.9	23.5	23.5	25.2	26.9	26.9	28.6
175°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	21.9	21.9	21.9	23.5
177.5°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
180°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4	4036.4
2.5°	4120.5	4128.9	4147.4	4157.5	4164.2	4165.9	4186.1	4179.4	4191.1	4191.1
5°	4325.7	4356.0	4391.3	4428.3	4441.7	4453.5	4470.3	4475.4	4488.8	4475.4
7.5°	4529.2	4562.8	4603.2	4640.2	4662.0	4678.9	4702.4	4714.2	4726.0	4722.6
10°	4673.8	4717.5	4769.7	4818.5	4840.3	4857.1	4884.0	4897.5	4909.3	4904.2
12.5°	4778.1	4837.0	4894.1	4949.6	4971.5	4988.3	5015.2	5032.0	5042.1	5057.3
15°	4853.8	4909.3	4976.5	5037.1	5059.0	5082.5	5109.4	5122.9	5131.3	5138.0
17.5°	4884.0	4956.4	5015.2	5070.7	5094.3	5117.8	5151.5	5164.9	5175.0	5183.4
20°	4874.0	4941.2	5006.8	5065.7	5090.9	5116.1	5143.0	5166.6	5173.3	5175.0
22.5°	4818.5	4895.8	4968.1	5028.7	5040.5	5062.3	5087.5	5112.8	5119.5	5121.2
25°	4734.4	4803.3	4870.6	4917.7	4934.5	4961.4	4985.0	5005.1	5008.5	5011.9
27.5°	4606.5	4672.1	4731.0	4789.9	4811.7	4830.2	4852.1	4865.5	4867.2	4874.0
30°	4441.7	4512.4	4569.5	4620.0	4631.8	4640.2	4663.7	4682.2	4677.2	4682.2
32.5°	4253.4	4320.6	4376.1	4406.4	4421.5	4440.0	4455.2	4463.6	4463.6	4455.2
35°	4044.8	4103.7	4149.1	4174.3	4186.1	4201.2	4213.0	4218.0	4221.4	4207.9
37.5°	3812.7	3871.6	3906.9	3933.8	3940.5	3954.0	3940.5	3955.7	3950.6	3943.9
40°	3580.6	3629.4	3652.9	3683.2	3671.4	3678.2	3669.8	3684.9	3666.4	3663.0
42.5°	3351.9	3377.1	3400.7	3399.0	3402.4	3397.3	3390.6	3378.8	3375.4	3367.0
45°	3123.2	3148.4	3143.3	3141.7	3143.3	3134.9	3121.5	3119.8	3106.3	3094.6
47.5°	2889.4	2896.1	2902.8	2894.4	2892.8	2882.7	2874.3	2852.4	2842.3	2833.9
50°	2679.2	2687.6	2682.5	2674.1	2659.0	2653.9	2635.4	2620.3	2611.9	2600.1
52.5°	2484.1	2490.8	2475.7	2463.9	2448.8	2437.0	2420.2	2406.7	2389.9	2389.9
55°	2312.5	2309.2	2285.6	2273.8	2258.7	2248.6	2226.7	2209.9	2203.2	2189.7
57.5°	2152.7	2142.7	2117.4	2098.9	2088.8	2075.4	2063.6	2048.5	2040.1	2035.0
60°	2008.1	1989.6	1972.8	1956.0	1950.9	1934.1	1927.4	1900.5	1895.4	1893.7
62.5°	1876.9	1868.5	1848.3	1816.4	1806.3	1801.2	1786.1	1774.3	1762.6	1765.9
65°	1772.7	1744.1	1717.2	1697.0	1685.2	1676.8	1666.7	1654.9	1648.2	1644.8
67.5°	1658.3	1631.4	1604.5	1584.3	1575.9	1569.2	1557.4	1547.3	1543.9	1542.2
70°	1547.3	1523.7	1503.6	1476.7	1466.6	1464.9	1451.4	1444.7	1439.7	1436.3
72.5°	1443.0	1416.1	1390.9	1372.4	1364.0	1358.9	1352.2	1347.1	1342.1	1335.4
75°	1337.1	1311.8	1290.0	1273.1	1269.8	1264.7	1256.3	1251.3	1249.6	1244.6
77.5°	1234.5	1214.3	1192.4	1185.7	1179.0	1175.6	1175.6	1168.9	1165.5	1165.5
80°	1140.3	1118.4	1101.6	1093.2	1091.5	1088.1	1086.5	1079.7	1076.4	1081.4
82.5°	1036.0	1015.8	1004.1	992.3	990.6	987.2	987.2	982.2	983.9	980.5
85°	926.7	909.9	898.1	891.4	888.0	889.7	889.7	888.0	888.0	886.3
87.5°	805.6	795.5	785.4	780.4	782.1	785.4	782.1	780.4	780.4	783.7
90°	447.4	444.0	444.0	444.0	445.7	442.3	445.7	447.4	445.7	447.4
92.5°	420.5	417.1	418.8	420.5	423.8	420.5	423.8	423.8	422.1	423.8
95°	381.8	388.5	385.1	390.2	391.9	390.2	395.2	398.6	395.2	393.5
97.5°	329.6	336.4	344.8	351.5	358.2	358.2	359.9	363.3	363.3	366.6
100°	267.4	274.1	277.5	287.6	299.4	299.4	306.1	311.1	311.1	314.5
102.5°	254.0	254.0	252.3	250.6	250.6	248.9	248.9	252.3	252.3	257.3
105°	238.8	240.5	240.5	240.5	242.2	240.5	240.5	242.2	240.5	238.8
107.5°	218.6	227.0	230.4	232.1	232.1	232.1	233.8	235.5	235.5	235.5
110°	188.4	206.9	213.6	218.6	223.7	220.3	225.4	228.7	228.7	228.7



TEST NUMBER: P236385

CATALOG NUMBER: SKB2-LD5-15-W-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	146.3	173.2	190.0	200.1	205.2	206.9	211.9	217.0	217.0	217.0
115°	102.6	117.7	144.6	173.2	180.0	183.3	191.7	200.1	200.1	200.1
117.5°	100.9	95.9	106.0	116.0	119.4	131.2	159.8	169.9	174.9	171.5
120°	111.0	102.6	95.9	92.5	94.2	100.9	107.6	114.4	119.4	117.7
122.5°	127.8	112.7	104.3	99.2	99.2	95.9	95.9	94.2	92.5	90.8
125°	139.6	131.2	119.4	111.0	109.3	106.0	104.3	100.9	100.9	97.5
127.5°	153.0	143.0	136.2	131.2	126.1	122.8	119.4	114.4	111.0	107.6
130°	171.5	158.1	148.0	143.0	141.3	139.6	136.2	132.9	127.8	124.5
132.5°	200.1	180.0	166.5	159.8	156.4	153.0	148.0	146.3	143.0	139.6
135°	272.5	215.3	190.0	180.0	174.9	169.9	164.8	161.5	156.4	154.7
137.5°	296.0	279.2	243.9	211.9	200.1	195.1	186.7	181.6	176.6	174.9
140°	302.7	314.5	291.0	285.9	279.2	260.7	228.7	215.3	210.2	206.9
142.5°	291.0	306.1	316.2	322.9	302.7	301.0	294.3	289.3	289.3	280.9
145°	282.5	294.3	306.1	314.5	317.9	321.2	326.3	329.6	324.6	321.2
147.5°	270.8	284.2	291.0	302.7	304.4	307.8	312.8	314.5	316.2	314.5
150°	257.3	270.8	277.5	289.3	289.3	294.3	297.7	302.7	302.7	299.4
152.5°	247.2	257.3	265.7	274.1	277.5	279.2	282.5	285.9	285.9	285.9
155°	247.2	247.2	250.6	257.3	260.7	262.4	265.7	267.4	269.1	267.4
157.5°	222.0	238.8	250.6	250.6	248.9	248.9	250.6	254.0	255.6	254.0
160°	190.0	215.3	223.7	233.8	237.1	238.8	250.6	250.6	250.6	248.9
162.5°	143.0	166.5	185.0	203.5	206.9	215.3	220.3	218.6	223.7	215.3
165°	102.6	117.7	127.8	139.6	148.0	156.4	164.8	168.2	173.2	169.9
167.5°	55.5	65.6	82.4	94.2	99.2	102.6	109.3	112.7	119.4	114.4
170°	32.0	32.0	33.6	43.7	48.8	50.5	55.5	55.5	53.8	57.2
172.5°	28.6	30.3	30.3	30.3	30.3	30.3	28.6	28.6	26.9	25.2
175°	23.5	25.2	25.2	25.2	25.2	25.2	23.5	23.5	21.9	20.2
177.5°	20.2	20.2	20.2	20.2	18.5	18.5	18.5	16.8	15.1	13.5
180°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5

(END OF REPORT)