

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: P236388

Luminaire Tested: **SKB2-LD5-18-W-UNV-L835-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236388
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-LD5-18-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

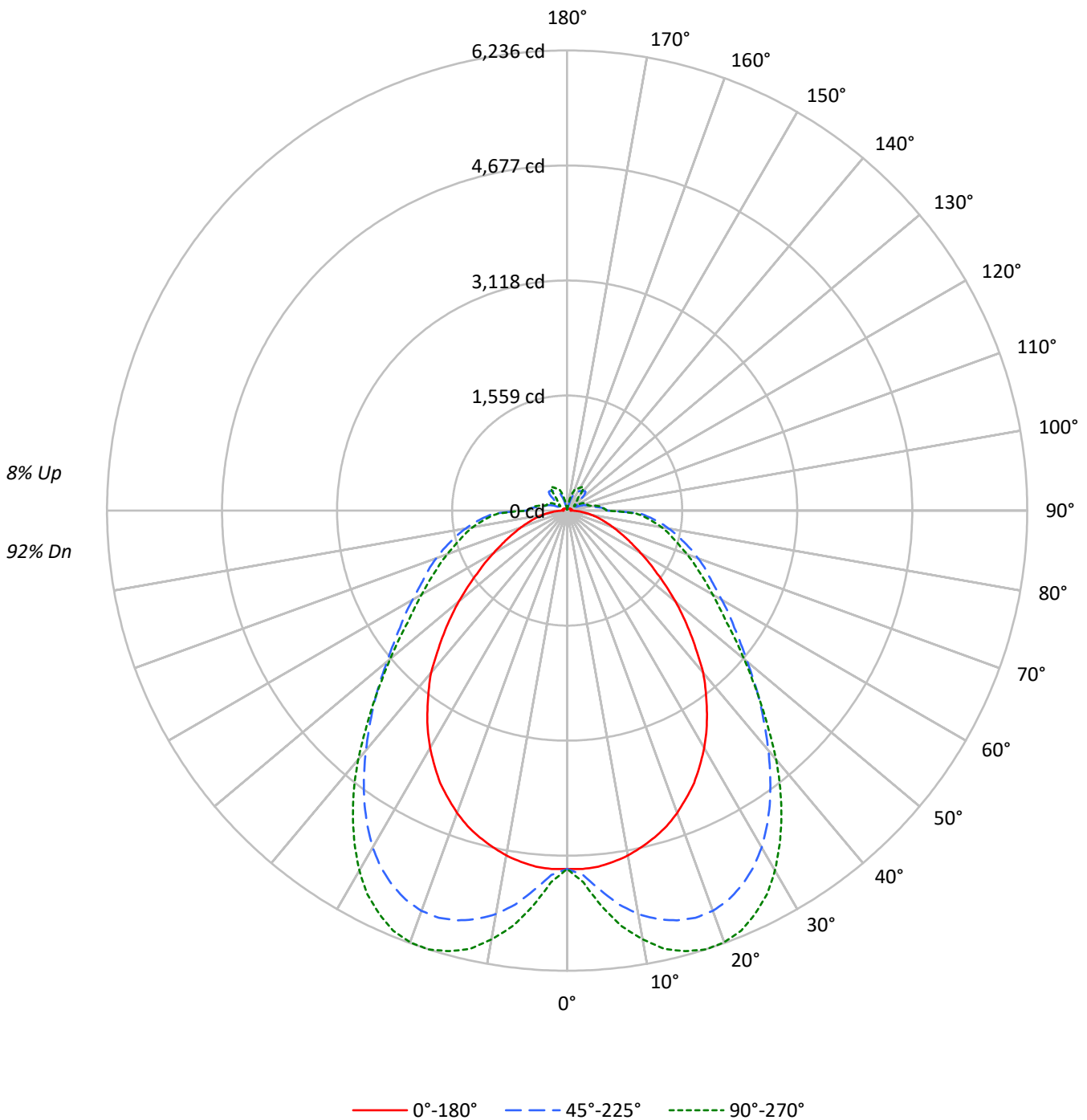
Lumens per Lamp: N/A
Luminaire Lumens: 18142.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 168.5
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	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°	20907	20907	20907
5°	20745	21948	22934
10°	20377	23479	25057
15°	19881	24379	26373
20°	19247	24724	26893
25°	18443	24432	26577
30°	17411	23603	25545
35°	16175	22223	23826
40°	14829	20544	21728
45°	13054	18910	19429
50°	11404	17378	17480
55°	9743	16302	15972
60°	8383	15646	15223
65°	7329	15357	14851
70°	6495	15553	14919
75°	5841	15859	15355
80°	5236	16592	16582
85°	4379	17614	18131



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.4	2.8
10°-20°	1581.3	8.7
20°-30°	2476.9	13.7
30°-40°	2849.2	15.7
40°-50°	2663.9	14.7
50°-60°	2242.2	12.4
60°-70°	1849.2	10.2
70°-80°	1485.5	8.2
80°-90°	1017.2	5.6
90°-100°	409.4	2.3
100°-110°	250.2	1.4
110°-120°	181.7	1.0
120°-130°	157.4	0.9
130°-140°	175.3	1.0
140°-150°	167.3	0.9
150°-160°	99.3	0.5
160°-170°	32.6	0.2
170°-180°	3.0	0.0
0°-30°	4558.5	25.1
0°-40°	7407.8	40.8
0°-60°	12314.0	67.9
0°-90°	16665.9	91.9
90°-120°	841.3	4.6
90°-150°	1341.2	7.4
90°-180°	1476.0	8.1
0°-180°	18142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4856	4856	4856	4856	4856	
5°	4844	4951	5163	5343	5384	459
15°	4585	5200	5750	6086	6181	1291
25°	4071	4941	5602	5936	6029	1868
35°	3302	4202	4795	5036	5062	2062
45°	2367	3191	3700	3781	3723	1829
55°	1491	2337	2766	2717	2634	1348
65°	880	1766	2126	2027	1979	880
75°	488	1360	1635	1528	1497	518
85°	194	959	1137	1068	1066	189
90°	49	431	548	536	538	39
95°	61	295	459	471	473	48
105°	61	148	279	291	287	64
115°	51	235	125	216	241	52
125°	44	281	184	132	117	40
135°	34	261	352	210	186	27
145°	28	202	324	382	386	18
155°	26	81	277	314	322	12
165°	26	36	95	178	204	7
175°	24	24	28	30	24	2
180°	22	22	22	22	22	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7
2.5°	4861.7	4865.8	4875.9	4892.1	4894.1	4888.0	4880.0	4894.1	4888.0	4918.4	4942.7
5°	4843.5	4847.6	4869.8	4916.4	4932.6	4950.8	4956.8	5007.4	5047.9	5106.6	5163.2
7.5°	4801.0	4825.3	4861.7	4940.6	5007.4	5035.7	5066.1	5145.0	5225.9	5310.9	5383.7
10°	4746.4	4776.8	4851.6	4966.9	5070.1	5120.7	5165.2	5278.5	5367.5	5460.6	5551.7
12.5°	4669.5	4714.1	4815.2	4979.1	5116.7	5171.3	5227.9	5353.4	5460.6	5573.9	5671.0
15°	4584.6	4643.2	4776.8	4977.1	5128.8	5199.6	5260.3	5393.8	5517.3	5638.7	5749.9
17.5°	4483.4	4552.2	4724.2	4944.7	5112.6	5187.5	5254.2	5395.9	5531.4	5658.9	5786.3
20°	4360.0	4447.0	4653.4	4886.0	5058.0	5140.9	5209.7	5363.5	5509.2	5650.8	5772.2
22.5°	4218.4	4323.6	4548.1	4797.0	4977.1	5058.0	5130.8	5298.8	5454.5	5586.0	5711.5
25°	4070.7	4184.0	4428.8	4679.7	4865.8	4940.6	5021.6	5197.6	5343.3	5478.8	5602.2
27.5°	3894.7	4018.1	4287.2	4540.1	4720.1	4807.1	4886.0	5051.9	5201.6	5343.3	5458.6
30°	3712.6	3846.1	4121.3	4353.9	4542.1	4641.2	4712.0	4871.9	5029.7	5159.2	5272.5
32.5°	3518.3	3645.8	3925.0	4165.8	4343.8	4436.9	4505.7	4663.5	4809.1	4928.5	5043.8
35°	3301.9	3443.5	3716.6	3945.2	4119.2	4202.2	4271.0	4442.9	4570.4	4691.8	4795.0
37.5°	3085.4	3218.9	3479.9	3716.6	3886.6	3963.4	4026.2	4196.1	4315.5	4424.7	4521.8
40°	2868.9	2984.2	3243.2	3455.6	3631.6	3698.4	3773.3	3916.9	4046.4	4157.7	4242.6
42.5°	2603.9	2747.5	3004.4	3212.8	3370.6	3451.6	3522.4	3672.1	3781.4	3880.5	3963.4
45°	2367.1	2516.9	2753.6	2964.0	3125.8	3190.6	3261.4	3403.0	3526.4	3613.4	3700.4
47.5°	2136.5	2286.2	2522.9	2719.2	2881.0	2964.0	3020.6	3164.3	3277.6	3372.7	3437.4
50°	1913.9	2065.7	2292.3	2498.6	2652.4	2729.3	2802.1	2931.6	3057.1	3133.9	3186.5
52.5°	1695.4	1851.2	2094.0	2286.2	2448.1	2518.9	2585.6	2731.3	2846.6	2923.5	2966.0
55°	1491.1	1665.1	1903.8	2100.1	2257.9	2336.8	2407.6	2551.3	2648.4	2715.1	2765.7
57.5°	1321.1	1487.1	1727.8	1932.2	2094.0	2164.8	2241.7	2381.3	2474.4	2545.2	2593.7
60°	1149.2	1329.2	1578.1	1772.3	1940.2	2023.2	2094.0	2219.4	2322.6	2393.4	2419.7
62.5°	1007.6	1193.7	1436.5	1634.7	1812.8	1885.6	1958.5	2083.9	2187.1	2241.7	2261.9
65°	880.1	1070.3	1313.1	1511.3	1691.4	1766.3	1831.0	1966.5	2045.5	2102.1	2126.4
67.5°	762.7	959.0	1207.8	1406.1	1578.1	1646.9	1717.7	1845.2	1934.2	1990.8	2015.1
70°	663.6	861.9	1102.6	1315.1	1476.9	1551.8	1624.6	1744.0	1829.0	1885.6	1885.6
72.5°	568.5	770.8	1013.6	1218.0	1387.9	1460.7	1519.4	1650.9	1729.8	1768.3	1764.2
75°	487.6	685.9	934.7	1122.9	1294.8	1359.6	1436.5	1555.8	1620.6	1646.9	1634.7
77.5°	408.7	607.0	857.8	1050.0	1209.9	1296.9	1353.5	1450.6	1507.3	1531.6	1517.4
80°	335.9	530.1	772.9	963.0	1128.9	1191.7	1244.3	1337.3	1387.9	1408.1	1396.0
82.5°	265.0	459.3	696.0	882.1	1021.7	1074.3	1128.9	1218.0	1272.6	1290.8	1276.6
85°	194.2	382.4	611.0	774.9	904.4	959.0	1011.6	1090.5	1135.0	1155.2	1137.0
87.5°	131.5	309.5	513.9	661.6	776.9	825.5	874.0	942.8	993.4	1005.5	999.5
90°	48.6	145.7	267.1	337.9	402.6	430.9	453.2	501.8	536.1	552.3	548.3
92.5°	54.6	115.3	204.3	277.2	335.9	368.2	402.6	451.2	489.6	507.8	509.8
95°	60.7	101.2	143.6	212.4	273.1	295.4	319.7	372.3	416.8	449.1	459.3
97.5°	58.7	103.2	137.6	155.8	220.5	248.9	271.1	311.6	339.9	360.1	380.4
100°	60.7	107.2	153.8	147.7	161.9	196.3	226.6	273.1	303.5	321.7	325.7
102.5°	60.7	109.3	172.0	161.9	147.7	149.7	161.9	230.6	269.1	293.4	303.5
105°	60.7	109.3	176.0	178.0	155.8	147.7	143.6	165.9	224.6	261.0	279.2
107.5°	60.7	109.3	178.0	216.5	174.0	161.9	151.7	139.6	153.8	212.4	246.8
110°	58.7	105.2	180.1	228.6	190.2	178.0	169.9	145.7	133.5	149.7	198.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	54.6	91.0	178.0	230.6	224.6	198.3	186.1	161.9	139.6	127.5	139.6
115°	50.6	80.9	176.0	230.6	261.0	234.7	204.3	178.0	155.8	135.6	125.4
117.5°	50.6	76.9	180.1	228.6	271.1	279.2	246.8	194.2	172.0	151.7	133.5
120°	48.6	66.8	167.9	228.6	269.1	289.3	289.3	218.5	186.1	169.9	151.7
122.5°	46.5	54.6	167.9	228.6	267.1	287.3	303.5	289.3	208.4	184.1	167.9
125°	44.5	52.6	151.7	226.6	263.0	281.2	299.4	315.6	248.9	204.3	184.1
127.5°	42.5	50.6	129.5	226.6	259.0	277.2	293.4	321.7	307.5	238.7	204.3
130°	40.5	46.5	115.3	210.4	252.9	269.1	287.3	315.6	341.9	313.6	238.7
132.5°	38.4	44.5	93.1	200.3	250.9	263.0	277.2	307.5	333.8	348.0	317.6
135°	34.4	40.5	78.9	180.1	252.9	261.0	271.1	299.4	325.7	348.0	352.0
137.5°	32.4	38.4	62.7	155.8	234.7	263.0	267.1	289.3	315.6	335.9	356.1
140°	30.3	36.4	46.5	131.5	220.5	244.8	269.1	281.2	305.5	327.8	346.0
142.5°	30.3	34.4	40.5	113.3	196.3	230.6	250.9	275.2	293.4	315.6	335.9
145°	28.3	32.4	38.4	80.9	159.8	202.3	236.7	277.2	285.3	303.5	323.7
147.5°	28.3	30.3	38.4	68.8	135.6	169.9	206.4	252.9	285.3	293.4	311.6
150°	26.3	30.3	36.4	44.5	109.3	141.6	169.9	242.8	269.1	289.3	299.4
152.5°	26.3	28.3	36.4	38.4	78.9	113.3	139.6	200.3	250.9	277.2	295.4
155°	26.3	28.3	34.4	38.4	58.7	80.9	111.3	155.8	212.4	256.9	277.2
157.5°	26.3	28.3	32.4	38.4	40.5	54.6	76.9	125.4	167.9	212.4	259.0
160°	26.3	26.3	32.4	36.4	38.4	40.5	50.6	83.0	129.5	159.8	200.3
162.5°	26.3	26.3	30.3	34.4	38.4	38.4	38.4	56.6	80.9	123.4	149.7
165°	26.3	26.3	28.3	32.4	36.4	36.4	38.4	38.4	46.5	72.8	95.1
167.5°	26.3	26.3	26.3	30.3	32.4	34.4	36.4	36.4	38.4	38.4	48.6
170°	24.3	26.3	26.3	28.3	30.3	30.3	32.4	34.4	36.4	36.4	38.4
172.5°	24.3	24.3	24.3	26.3	26.3	28.3	28.3	30.3	32.4	32.4	34.4
175°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	26.3	26.3	26.3	28.3
177.5°	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
180°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7	4855.7
2.5°	4956.8	4966.9	4989.2	5001.3	5009.4	5011.5	5035.7	5027.6	5041.8	5041.8
5°	5203.7	5240.1	5282.6	5327.1	5343.3	5357.4	5377.7	5383.7	5399.9	5383.7
7.5°	5448.5	5488.9	5537.5	5582.0	5608.3	5628.5	5656.9	5671.0	5685.2	5681.1
10°	5622.5	5675.1	5737.8	5796.5	5822.8	5843.0	5875.4	5891.6	5905.7	5899.6
12.5°	5747.9	5818.7	5887.5	5954.3	5980.6	6000.8	6033.2	6053.4	6065.5	6083.8
15°	5838.9	5905.7	5986.6	6059.5	6085.8	6114.1	6146.5	6162.7	6172.8	6180.9
17.5°	5875.4	5962.4	6033.2	6099.9	6128.3	6156.6	6197.1	6213.2	6225.4	6235.5
20°	5863.2	5944.2	6023.1	6093.9	6124.2	6154.6	6186.9	6215.3	6223.4	6225.4
22.5°	5796.5	5889.5	5976.5	6049.4	6063.5	6089.8	6120.2	6150.5	6158.6	6160.6
25°	5695.3	5778.3	5859.2	5915.8	5936.1	5968.4	5996.8	6021.0	6025.1	6029.1
27.5°	5541.5	5620.4	5691.3	5762.1	5788.4	5810.6	5836.9	5853.1	5855.1	5863.2
30°	5343.3	5428.2	5497.0	5557.7	5571.9	5582.0	5610.3	5632.6	5626.5	5632.6
32.5°	5116.7	5197.6	5264.4	5300.8	5319.0	5341.2	5359.5	5369.6	5369.6	5359.5
35°	4865.8	4936.6	4991.2	5021.6	5035.7	5053.9	5068.1	5074.2	5078.2	5062.0
37.5°	4586.6	4657.4	4699.9	4732.3	4740.4	4756.5	4740.4	4758.6	4752.5	4744.4
40°	4307.4	4366.1	4394.4	4430.8	4416.6	4424.7	4414.6	4432.8	4410.6	4406.5
42.5°	4032.2	4062.6	4090.9	4088.9	4092.9	4086.9	4078.8	4064.6	4060.6	4050.4
45°	3757.1	3787.4	3781.4	3779.3	3781.4	3771.2	3755.1	3753.0	3736.8	3722.7
47.5°	3475.9	3483.9	3492.0	3481.9	3479.9	3467.8	3457.6	3431.3	3419.2	3409.1
50°	3223.0	3233.1	3227.0	3216.9	3198.7	3192.6	3170.4	3152.1	3142.0	3127.9
52.5°	2988.3	2996.4	2978.1	2964.0	2945.8	2931.6	2911.4	2895.2	2875.0	2875.0
55°	2781.9	2777.9	2749.5	2735.4	2717.2	2705.0	2678.7	2658.5	2650.4	2634.2
57.5°	2589.7	2577.6	2547.2	2525.0	2512.8	2496.6	2482.5	2464.3	2454.1	2448.1
60°	2415.7	2393.4	2373.2	2353.0	2346.9	2326.7	2318.6	2286.2	2280.1	2278.1
62.5°	2257.9	2247.8	2223.5	2185.1	2172.9	2166.8	2148.6	2134.5	2120.3	2124.4
65°	2132.5	2098.1	2065.7	2041.4	2027.2	2017.1	2005.0	1990.8	1982.7	1978.7
67.5°	1994.9	1962.5	1930.1	1905.9	1895.7	1887.6	1873.5	1861.3	1857.3	1855.3
70°	1861.3	1833.0	1808.7	1776.4	1764.2	1762.2	1746.0	1737.9	1731.9	1727.8
72.5°	1735.9	1703.5	1673.2	1650.9	1640.8	1634.7	1626.7	1620.6	1614.5	1606.4
75°	1608.4	1578.1	1551.8	1531.6	1527.5	1521.4	1511.3	1505.3	1503.2	1497.2
77.5°	1485.0	1460.7	1434.4	1426.4	1418.3	1414.2	1414.2	1406.1	1402.1	1402.1
80°	1371.7	1345.4	1325.2	1315.1	1313.1	1309.0	1307.0	1298.9	1294.8	1300.9
82.5°	1246.3	1222.0	1207.8	1193.7	1191.7	1187.6	1187.6	1181.5	1183.6	1179.5
85°	1114.8	1094.5	1080.4	1072.3	1068.2	1070.3	1070.3	1068.2	1068.2	1066.2
87.5°	969.1	957.0	944.8	938.8	940.8	944.8	940.8	938.8	938.8	942.8
90°	538.2	534.1	534.1	534.1	536.1	532.1	536.1	538.2	536.1	538.2
92.5°	505.8	501.8	503.8	505.8	509.8	505.8	509.8	509.8	507.8	509.8
95°	459.3	467.4	463.3	469.4	471.4	469.4	475.5	479.5	475.5	473.4
97.5°	396.5	404.6	414.8	422.8	430.9	430.9	433.0	437.0	437.0	441.1
100°	321.7	329.8	333.8	346.0	360.1	360.1	368.2	374.3	374.3	378.3
102.5°	305.5	305.5	303.5	301.5	301.5	299.4	299.4	303.5	303.5	309.5
105°	287.3	289.3	289.3	289.3	291.3	289.3	289.3	291.3	289.3	287.3
107.5°	263.0	273.1	277.2	279.2	279.2	279.2	281.2	283.2	283.2	283.2
110°	226.6	248.9	256.9	263.0	269.1	265.0	271.1	275.2	275.2	275.2



TEST NUMBER: P236388

CATALOG NUMBER: SKB2-LD5-18-W-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	176.0	208.4	228.6	240.8	246.8	248.9	254.9	261.0	261.0	261.0
115°	123.4	141.6	174.0	208.4	216.5	220.5	230.6	240.8	240.8	240.8
117.5°	121.4	115.3	127.5	139.6	143.6	157.8	192.2	204.3	210.4	206.4
120°	133.5	123.4	115.3	111.3	113.3	121.4	129.5	137.6	143.6	141.6
122.5°	153.8	135.6	125.4	119.4	119.4	115.3	115.3	113.3	111.3	109.3
125°	167.9	157.8	143.6	133.5	131.5	127.5	125.4	121.4	121.4	117.3
127.5°	184.1	172.0	163.9	157.8	151.7	147.7	143.6	137.6	133.5	129.5
130°	206.4	190.2	178.0	172.0	169.9	167.9	163.9	159.8	153.8	149.7
132.5°	240.8	216.5	200.3	192.2	188.2	184.1	178.0	176.0	172.0	167.9
135°	327.8	259.0	228.6	216.5	210.4	204.3	198.3	194.2	188.2	186.1
137.5°	356.1	335.9	293.4	254.9	240.8	234.7	224.6	218.5	212.4	210.4
140°	364.2	378.3	350.0	343.9	335.9	313.6	275.2	259.0	252.9	248.9
142.5°	350.0	368.2	380.4	388.5	364.2	362.2	354.1	348.0	348.0	337.9
145°	339.9	354.1	368.2	378.3	382.4	386.4	392.5	396.5	390.5	386.4
147.5°	325.7	341.9	350.0	364.2	366.2	370.2	376.3	378.3	380.4	378.3
150°	309.5	325.7	333.8	348.0	348.0	354.1	358.1	364.2	364.2	360.1
152.5°	297.4	309.5	319.7	329.8	333.8	335.9	339.9	343.9	343.9	343.9
155°	297.4	297.4	301.5	309.5	313.6	315.6	319.7	321.7	323.7	321.7
157.5°	267.1	287.3	301.5	301.5	299.4	299.4	301.5	305.5	307.5	305.5
160°	228.6	259.0	269.1	281.2	285.3	287.3	301.5	301.5	301.5	299.4
162.5°	172.0	200.3	222.6	244.8	248.9	259.0	265.0	263.0	269.1	259.0
165°	123.4	141.6	153.8	167.9	178.0	188.2	198.3	202.3	208.4	204.3
167.5°	66.8	78.9	99.1	113.3	119.4	123.4	131.5	135.6	143.6	137.6
170°	38.4	38.4	40.5	52.6	58.7	60.7	66.8	66.8	64.7	68.8
172.5°	34.4	36.4	36.4	36.4	36.4	36.4	34.4	34.4	32.4	30.3
175°	28.3	30.3	30.3	30.3	30.3	30.3	28.3	28.3	26.3	24.3
177.5°	24.3	24.3	24.3	24.3	22.3	22.3	22.3	20.2	18.2	16.2
180°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3

(END OF REPORT)