

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: P236376

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236376
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-LD5-18-N-UNV-L835-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

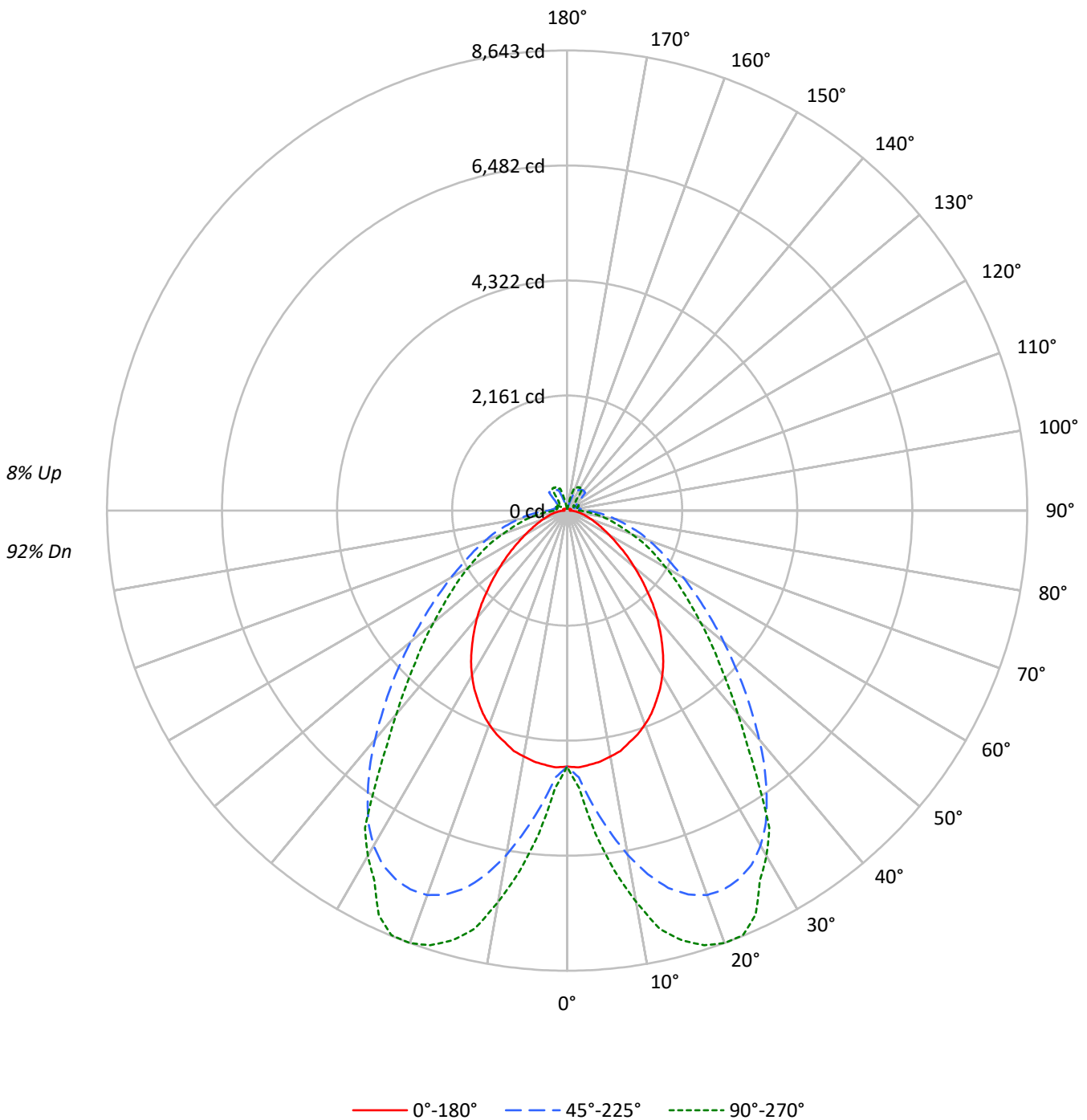
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19955.0 lumens
Efficiency: N/A
Efficacy: 118.4 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): 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

TEST NUMBER: P236376
CATALOG NUMBER: SKB2-LD5-18-N-UNV-L835-CD2-U

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°	20697	20697	20697
5°	20528	23616	25916
10°	20134	27783	31690
15°	19547	31113	35670
20°	18872	32922	37336
25°	17902	33309	36913
30°	16755	32533	33959
35°	15283	30268	29501
40°	13605	27187	24601
45°	11659	23956	21034
50°	9825	20953	18282
55°	8117	18365	16107
60°	6641	16327	14303
65°	5526	14640	12877
70°	4732	13384	11076
75°	4145	12189	9710
80°	3689	10966	8562
85°	3193	9653	7088



TEST NUMBER: P236376

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.7	2.8
10°-20°	1965.3	9.8
20°-30°	3221.4	16.1
30°-40°	3600.0	18.0
40°-50°	3136.3	15.7
50°-60°	2413.9	12.1
60°-70°	1731.9	8.7
70°-80°	1143.6	5.7
80°-90°	618.3	3.1
90°-100°	273.8	1.4
100°-110°	218.1	1.1
110°-120°	218.7	1.1
120°-130°	211.5	1.1
130°-140°	229.1	1.1
140°-150°	227.6	1.1
150°-160°	144.5	0.7
160°-170°	45.6	0.2
170°-180°	4.6	0.0
0°-30°	5737.4	28.8
0°-40°	9337.3	46.8
0°-60°	14887.6	74.6
0°-90°	18381.3	92.1
90°-120°	710.6	3.6
90°-150°	1378.9	6.9
90°-180°	1574.0	7.9
0°-180°	19955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4807	4807	4807	4807	4807	
5°	4793	5062	5556	5918	6084	455
15°	4508	5898	7338	8164	8360	1271
25°	3951	6082	7638	8309	8374	1817
35°	3120	5327	6531	6456	6268	1944
45°	2114	3988	4688	4311	4030	1637
55°	1242	2709	3116	2843	2656	1120
65°	664	1809	2027	1859	1716	668
75°	346	1254	1256	1074	947	371
85°	142	813	623	488	417	134
90°	53	486	356	267	229	36
95°	71	336	269	218	198	58
105°	77	204	225	200	192	81
115°	67	360	152	227	237	68
125°	59	427	237	162	144	53
135°	46	386	480	247	214	36
145°	40	295	475	494	490	26
155°	38	83	431	469	486	18
165°	38	55	103	251	308	11
175°	38	40	46	51	42	4
180°	36	36	36	36	36	



TEST NUMBER: P236376

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1
2.5°	4827.3	4817.2	4839.4	4859.7	4861.7	4875.9	4873.8	4900.1	4932.5	4973.0	5013.4
5°	4792.9	4799.0	4851.6	4932.5	5001.3	5062.0	5094.4	5205.6	5298.7	5428.2	5555.6
7.5°	4756.5	4772.7	4886.0	5041.8	5199.6	5288.6	5369.5	5561.7	5731.7	5911.7	6067.5
10°	4689.7	4728.2	4920.4	5173.3	5420.1	5545.5	5660.9	5895.5	6140.3	6366.9	6569.3
12.5°	4625.0	4687.7	4948.7	5276.4	5586.0	5743.8	5895.5	6197.0	6474.2	6763.5	6992.1
15°	4507.6	4616.9	4964.9	5363.4	5735.7	5897.6	6087.7	6435.7	6763.5	7062.9	7338.1
17.5°	4406.5	4548.1	4956.8	5408.0	5842.9	6033.1	6223.3	6595.6	6955.7	7297.6	7560.6
20°	4275.0	4455.0	4932.5	5428.2	5885.4	6106.0	6312.3	6712.9	7091.2	7417.0	7686.1
22.5°	4131.3	4341.7	4871.8	5395.8	5881.4	6110.0	6334.6	6739.2	7115.5	7441.2	7700.2
25°	3951.3	4210.2	4764.6	5323.0	5826.8	6081.7	6286.0	6688.6	7062.9	7374.5	7637.5
27.5°	3775.2	4056.5	4643.2	5213.7	5727.6	5968.4	6170.7	6595.6	6957.7	7251.1	7501.9
30°	3572.9	3878.4	4485.4	5055.9	5569.8	5806.5	6023.0	6417.5	6763.5	7052.8	7267.3
32.5°	3360.5	3674.1	4293.2	4851.6	5351.3	5604.2	5800.5	6186.9	6524.7	6761.5	6949.6
35°	3119.7	3461.7	4052.4	4616.9	5096.4	5327.0	5525.3	5887.4	6205.1	6419.5	6530.8
37.5°	2870.9	3224.9	3809.6	4333.6	4813.1	5007.4	5199.6	5565.8	5826.8	6014.9	6093.8
40°	2632.2	2964.0	3520.3	4052.4	4489.4	4685.7	4855.6	5187.4	5442.3	5571.8	5614.3
42.5°	2379.3	2713.1	3237.1	3732.8	4153.6	4341.7	4511.7	4803.0	5025.6	5140.9	5130.8
45°	2114.2	2450.1	2935.6	3421.2	3821.8	3987.7	4155.6	4406.5	4608.8	4687.7	4687.7
47.5°	1873.5	2179.0	2666.5	3097.5	3481.9	3647.8	3801.6	4036.2	4202.1	4258.8	4238.6
50°	1648.9	1934.2	2383.3	2787.9	3162.2	3326.1	3455.6	3686.2	3829.9	3856.2	3842.0
52.5°	1438.5	1701.5	2124.3	2520.9	2862.8	3006.4	3140.0	3346.3	3463.7	3490.0	3463.7
55°	1242.2	1491.1	1883.6	2259.9	2581.6	2709.0	2844.6	3020.6	3113.7	3121.8	3115.7
57.5°	1062.2	1304.9	1673.2	2025.2	2320.6	2452.1	2561.3	2725.2	2783.9	2806.1	2796.0
60°	910.4	1141.1	1481.0	1818.8	2094.0	2213.4	2314.5	2427.8	2498.6	2504.7	2524.9
62.5°	776.9	997.4	1323.2	1630.7	1897.7	1998.9	2087.9	2191.1	2241.7	2249.8	2249.8
65°	663.6	872.0	1185.6	1466.8	1713.6	1808.7	1879.5	1974.6	2007.0	2007.0	2027.2
67.5°	566.5	768.8	1062.2	1339.3	1561.9	1634.7	1707.6	1774.3	1786.5	1810.7	1824.9
70°	483.5	681.8	957.0	1226.0	1418.2	1497.2	1551.8	1590.2	1616.5	1616.5	1622.6
72.5°	408.7	600.9	865.9	1124.9	1309.0	1365.6	1404.1	1446.6	1456.7	1454.7	1458.7
75°	346.0	534.1	795.1	1023.7	1199.7	1254.4	1284.7	1313.0	1307.0	1294.8	1256.4
77.5°	291.3	473.4	732.4	952.9	1100.6	1157.3	1179.5	1189.6	1157.3	1116.8	1080.4
80°	236.7	416.8	663.6	872.0	1011.6	1056.1	1068.2	1031.8	995.4	963.0	922.6
82.5°	186.1	364.2	604.9	801.2	916.5	930.7	934.7	896.3	863.9	823.4	783.0
85°	141.6	313.6	538.2	706.1	795.1	813.3	807.2	762.7	714.2	669.7	623.1
87.5°	95.1	256.9	457.2	596.8	663.6	665.6	651.5	611.0	572.6	528.0	479.5
90°	52.6	180.1	337.9	435.0	489.6	485.6	489.6	457.2	426.9	392.5	356.1
92.5°	60.7	137.6	244.8	343.9	402.6	408.7	412.7	390.5	364.2	337.9	303.5
95°	70.8	121.4	172.0	259.0	319.7	335.8	339.9	333.8	319.7	299.4	269.1
97.5°	72.8	125.4	178.0	182.1	259.0	279.2	291.3	289.3	277.2	261.0	246.8
100°	74.9	135.6	204.3	196.2	186.1	218.5	240.8	259.0	256.9	244.8	226.6
102.5°	76.9	141.6	236.7	226.6	194.2	174.0	180.1	226.6	238.7	234.7	224.6
105°	76.9	145.7	244.8	265.0	224.6	204.3	182.1	180.1	212.4	226.6	224.6
107.5°	76.9	141.6	250.9	309.5	263.0	236.7	214.5	169.9	157.8	206.4	218.5
110°	74.9	135.6	256.9	343.9	297.4	273.1	246.8	196.2	161.9	141.6	204.3



TEST NUMBER: P236376

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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	70.8	117.3	256.9	341.9	348.0	307.5	279.2	226.6	182.1	155.8	135.6
115°	66.8	101.2	252.9	341.9	410.7	360.1	309.5	259.0	210.4	176.0	151.7
117.5°	66.8	91.0	252.9	343.9	410.7	435.0	370.2	289.3	236.7	200.3	167.9
120°	64.7	83.0	246.8	343.9	410.7	435.0	455.2	327.8	265.0	224.6	194.2
122.5°	60.7	74.9	230.6	337.9	406.7	430.9	449.1	398.6	299.4	250.9	214.5
125°	58.7	66.8	192.2	331.8	400.6	426.9	447.1	473.4	346.0	275.2	236.7
127.5°	56.6	62.7	159.8	333.8	392.5	418.8	441.1	469.4	457.2	315.6	265.0
130°	52.6	60.7	129.5	325.7	382.4	408.7	433.0	461.3	477.5	414.8	303.5
132.5°	48.6	56.6	103.2	289.3	372.3	398.6	420.8	455.2	473.4	481.5	380.4
135°	46.5	52.6	78.9	242.8	368.2	386.4	408.7	449.1	471.4	481.5	479.5
137.5°	44.5	52.6	70.8	192.2	368.2	382.4	396.5	435.0	463.3	479.5	479.5
140°	42.5	50.6	58.7	147.7	335.8	384.4	390.5	424.9	455.2	475.4	485.6
142.5°	42.5	48.6	56.6	115.3	271.1	358.1	390.5	410.7	443.1	469.4	483.5
145°	40.5	46.5	54.6	85.0	206.4	295.4	374.3	402.6	428.9	455.2	475.4
147.5°	40.5	44.5	52.6	68.8	155.8	226.6	307.5	408.7	416.8	441.1	461.3
150°	38.4	44.5	52.6	56.6	115.3	161.9	230.6	372.3	418.8	424.9	447.1
152.5°	38.4	42.5	52.6	56.6	83.0	117.3	163.9	281.2	392.5	426.9	430.9
155°	38.4	42.5	50.6	54.6	64.7	83.0	111.3	200.3	309.5	410.7	430.9
157.5°	38.4	42.5	48.6	54.6	56.6	62.7	78.9	131.5	218.5	311.6	396.5
160°	38.4	40.5	48.6	52.6	56.6	56.6	58.7	91.0	135.6	206.4	277.2
162.5°	38.4	40.5	44.5	50.6	54.6	56.6	56.6	60.7	87.0	125.4	176.0
165°	38.4	40.5	44.5	48.6	52.6	54.6	56.6	58.7	58.7	72.8	103.2
167.5°	38.4	38.4	42.5	46.5	50.6	52.6	52.6	56.6	56.6	58.7	60.7
170°	38.4	38.4	40.5	44.5	46.5	48.6	50.6	52.6	54.6	56.6	56.6
172.5°	38.4	38.4	40.5	40.5	42.5	44.5	44.5	46.5	50.6	50.6	52.6
175°	38.4	38.4	38.4	38.4	40.5	40.5	40.5	42.5	42.5	44.5	46.5
177.5°	36.4	36.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	40.5
180°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4



TEST NUMBER: P236376

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1	4807.1
2.5°	5082.2	5078.2	5116.6	5171.2	5161.1	5183.4	5213.7	5246.1	5250.1	5221.8
5°	5644.7	5709.4	5806.5	5877.3	5917.8	5936.0	5990.6	6023.0	6006.8	6083.7
7.5°	6257.7	6354.8	6478.2	6593.5	6640.1	6654.2	6706.8	6797.9	6789.8	6826.2
10°	6777.6	6919.3	7077.1	7226.8	7269.3	7315.8	7396.7	7455.4	7477.7	7461.5
12.5°	7232.9	7421.0	7570.7	7698.2	7781.1	7862.1	7932.9	7987.5	8036.1	8048.2
15°	7584.9	7771.0	7945.0	8108.9	8163.5	8208.0	8299.1	8347.6	8351.7	8359.8
17.5°	7809.5	7975.4	8145.3	8284.9	8349.7	8392.1	8465.0	8525.7	8543.9	8560.1
20°	7918.7	8070.5	8234.3	8363.8	8430.6	8471.0	8545.9	8586.4	8616.7	8643.0
22.5°	7924.8	8082.6	8244.4	8369.9	8428.6	8475.1	8545.9	8592.4	8616.7	8630.9
25°	7839.8	8001.7	8163.5	8252.5	8309.2	8351.7	8367.9	8361.8	8357.7	8373.9
27.5°	7684.0	7817.6	7916.7	7953.1	7936.9	7941.0	7904.6	7862.1	7845.9	7837.8
30°	7408.9	7501.9	7506.0	7501.9	7479.7	7491.8	7461.5	7449.3	7477.7	7487.8
32.5°	7030.5	7062.9	7083.1	7034.6	7034.6	7032.6	7044.7	7014.4	7030.5	7067.0
35°	6597.6	6553.1	6551.0	6480.2	6456.0	6443.8	6375.0	6320.4	6284.0	6267.8
37.5°	6085.7	6027.0	6008.8	5919.8	5885.4	5851.0	5743.8	5644.7	5590.0	5559.7
40°	5590.0	5525.3	5484.8	5375.6	5323.0	5284.5	5191.5	5076.2	5053.9	4989.2
42.5°	5094.4	5064.0	4954.8	4879.9	4794.9	4738.3	4647.2	4570.4	4507.6	4479.3
45°	4661.4	4586.5	4491.5	4370.1	4311.4	4254.7	4157.6	4090.9	4058.5	4030.2
47.5°	4212.3	4139.4	4058.5	3943.2	3896.6	3848.1	3765.1	3696.3	3664.0	3649.8
50°	3811.7	3742.9	3662.0	3526.4	3498.1	3447.5	3372.6	3324.1	3285.6	3271.5
52.5°	3427.3	3374.7	3285.6	3186.5	3160.2	3103.6	3046.9	2986.2	2966.0	2941.7
55°	3091.4	3026.7	2961.9	2883.0	2842.6	2808.2	2747.5	2690.8	2680.7	2656.4
57.5°	2792.0	2727.2	2654.4	2583.6	2565.4	2535.0	2470.3	2435.9	2399.5	2397.5
60°	2488.5	2454.1	2403.5	2340.8	2322.6	2286.2	2225.5	2179.0	2146.6	2140.5
62.5°	2235.6	2207.3	2156.7	2100.1	2077.8	2049.5	1998.9	1946.3	1926.1	1913.9
65°	2017.1	1982.7	1936.2	1891.7	1859.3	1853.2	1794.6	1748.0	1721.7	1715.7
67.5°	1798.6	1786.5	1748.0	1705.5	1679.2	1646.9	1598.3	1547.7	1521.4	1505.2
70°	1616.5	1594.3	1545.7	1481.0	1452.6	1434.4	1363.6	1321.1	1296.9	1282.7
72.5°	1426.3	1387.9	1329.2	1274.6	1246.3	1222.0	1175.5	1135.0	1116.8	1100.6
75°	1222.0	1189.6	1143.1	1102.6	1074.3	1056.1	1017.7	977.2	957.0	946.8
77.5°	1054.1	1017.7	993.4	952.9	924.6	902.3	867.9	831.5	821.4	809.3
80°	894.2	865.9	839.6	799.2	772.9	754.6	720.3	687.9	669.7	671.7
82.5°	736.4	708.1	673.7	639.3	623.1	602.9	576.6	554.4	548.3	536.1
85°	584.7	558.4	532.1	501.7	487.6	475.4	449.1	433.0	420.8	416.8
87.5°	451.2	424.9	400.6	376.3	368.2	356.1	335.8	329.8	319.7	309.5
90°	325.7	307.5	289.3	275.2	267.1	259.0	248.9	242.8	232.7	228.6
92.5°	279.2	259.0	246.8	234.7	232.7	226.6	218.5	212.4	206.4	202.3
95°	248.9	236.7	228.6	220.5	218.5	214.5	208.4	206.4	202.3	198.3
97.5°	232.7	222.5	216.5	212.4	212.4	210.4	208.4	204.3	202.3	200.3
100°	214.5	202.3	202.3	204.3	204.3	204.3	204.3	204.3	202.3	200.3
102.5°	212.4	202.3	200.3	196.2	196.2	192.2	192.2	190.2	188.2	186.1
105°	216.5	210.4	204.3	202.3	200.3	200.3	196.2	194.2	192.2	192.2
107.5°	220.5	218.5	216.5	212.4	212.4	212.4	208.4	208.4	206.4	202.3
110°	216.5	220.5	222.5	222.5	222.5	222.5	222.5	222.5	218.5	218.5



TEST NUMBER: P236376

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	202.3	214.5	222.5	230.6	230.6	232.7	232.7	232.7	232.7	230.6
115°	137.6	143.6	214.5	224.6	226.6	230.6	234.7	238.7	238.7	236.7
117.5°	153.8	139.6	131.5	127.5	176.0	204.3	230.6	238.7	236.7	236.7
120°	169.9	153.8	143.6	135.6	135.6	131.5	129.5	129.5	129.5	137.6
122.5°	192.2	172.0	155.8	147.7	145.7	143.6	141.6	137.6	135.6	133.5
125°	212.4	194.2	178.0	163.9	161.9	157.8	153.8	149.7	147.7	143.6
127.5°	232.7	212.4	198.3	188.2	184.1	182.1	169.9	165.9	159.8	159.8
130°	261.0	234.7	216.5	206.4	200.3	198.3	192.2	188.2	184.1	182.1
132.5°	297.4	263.0	242.8	228.6	222.5	218.5	210.4	204.3	198.3	198.3
135°	388.5	307.5	273.1	254.9	246.8	242.8	232.7	224.6	216.5	214.5
137.5°	477.5	439.0	329.8	293.4	283.2	273.1	259.0	248.9	240.8	240.8
140°	483.5	481.5	481.5	394.5	358.1	335.8	301.5	285.3	277.2	269.1
142.5°	487.6	489.6	483.5	487.6	489.6	487.6	469.4	412.7	376.3	374.3
145°	485.6	491.6	491.6	491.6	493.7	493.7	491.6	493.7	487.6	489.6
147.5°	479.5	487.6	493.7	499.7	495.7	499.7	501.7	501.7	499.7	499.7
150°	463.3	479.5	489.6	495.7	493.7	495.7	495.7	497.7	491.6	491.6
152.5°	447.1	463.3	475.4	487.6	487.6	491.6	491.6	491.6	489.6	489.6
155°	428.9	441.1	455.2	467.4	469.4	473.4	479.5	481.5	485.6	485.6
157.5°	430.9	430.9	435.0	443.1	445.1	449.1	453.2	457.2	459.3	461.3
160°	350.0	412.7	433.0	443.1	439.0	435.0	433.0	437.0	433.0	437.0
162.5°	236.7	275.2	331.8	378.3	400.6	416.8	422.8	428.9	430.9	435.0
165°	129.5	161.9	200.3	244.8	250.9	261.0	279.2	291.3	311.6	307.5
167.5°	66.8	89.0	103.2	115.3	123.4	129.5	153.8	159.8	155.8	165.9
170°	58.7	58.7	60.7	60.7	62.7	64.7	66.8	78.9	72.8	68.8
172.5°	54.6	54.6	56.6	56.6	58.7	58.7	56.6	54.6	52.6	50.6
175°	46.5	48.6	50.6	50.6	50.6	52.6	50.6	48.6	46.5	42.5
177.5°	40.5	40.5	40.5	42.5	42.5	42.5	40.5	38.4	36.4	34.4
180°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4

(END OF REPORT)