

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: P236378

Luminaire Tested: **SKB2-LD5-18-N-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236378
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-L850-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

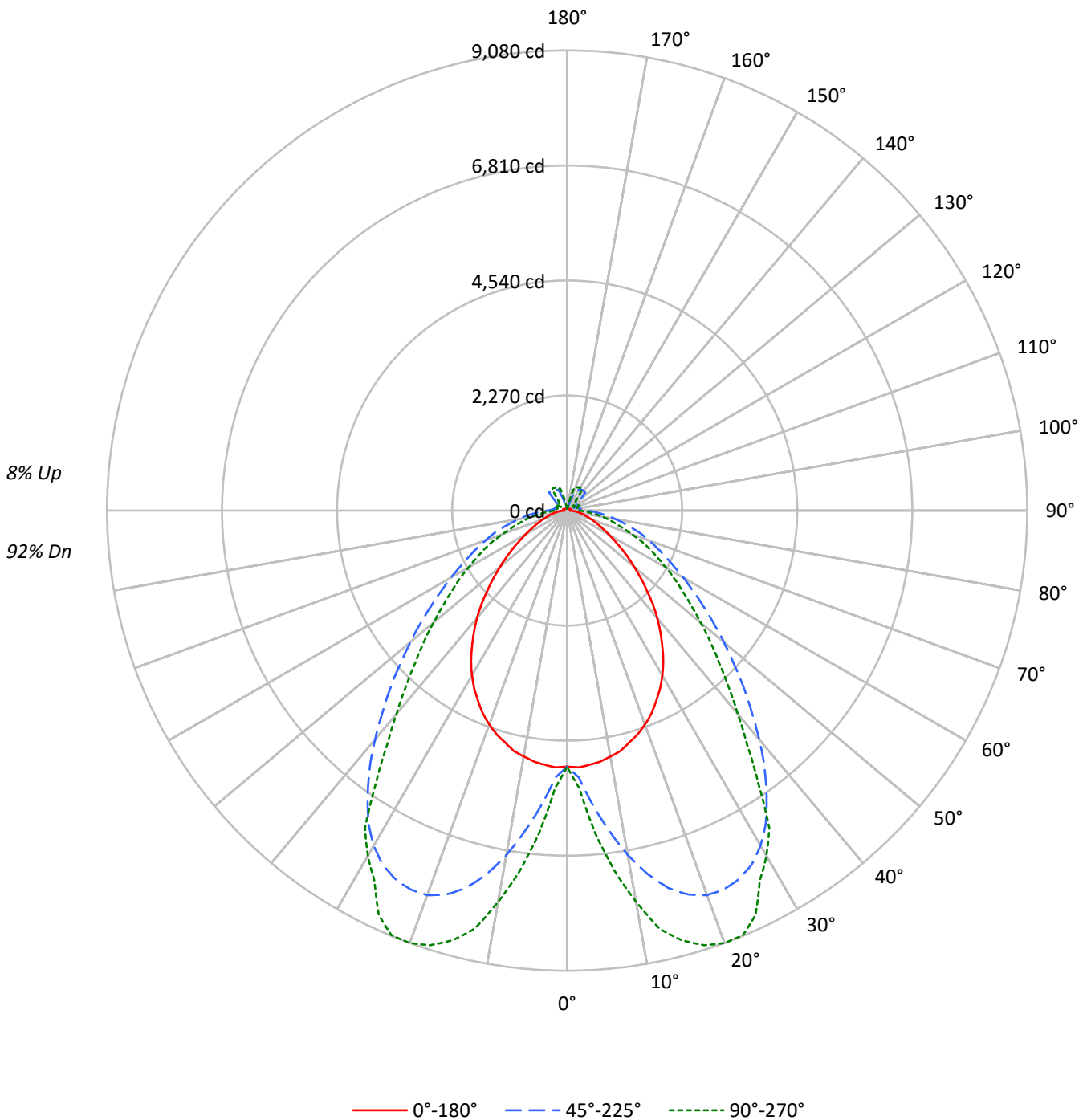
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20965.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

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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°	21745	21745	21745
5°	21567	24811	27228
10°	21153	29189	33294
15°	20536	32687	37476
20°	19827	34588	39226
25°	18808	34995	38781
30°	17604	34180	35678
35°	16056	31800	30994
40°	14294	28563	25846
45°	12249	25168	22099
50°	10322	22013	19208
55°	8528	19295	16922
60°	6978	17153	15028
65°	5806	15381	13528
70°	4972	14061	11636
75°	4354	12806	10203
80°	3876	11521	8995
85°	3356	10142	7447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.5	2.8
10°-20°	2064.8	9.8
20°-30°	3384.5	16.1
30°-40°	3782.2	18.0
40°-50°	3295.1	15.7
50°-60°	2536.1	12.1
60°-70°	1819.5	8.7
70°-80°	1201.5	5.7
80°-90°	649.6	3.1
90°-100°	287.7	1.4
100°-110°	229.2	1.1
110°-120°	229.8	1.1
120°-130°	222.2	1.1
130°-140°	240.7	1.1
140°-150°	239.1	1.1
150°-160°	151.8	0.7
160°-170°	48.0	0.2
170°-180°	4.8	0.0
0°-30°	6027.8	28.8
0°-40°	9809.9	46.8
0°-60°	15641.1	74.6
0°-90°	19311.7	92.1
90°-120°	746.6	3.6
90°-150°	1448.7	6.9
90°-180°	1653.0	7.9
0°-180°	20965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5050	5050	5050	5050	5050	
5°	5036	5318	5837	6217	6392	478
15°	4736	6196	7710	8577	8783	1335
25°	4151	6390	8024	8730	8798	1909
35°	3278	5597	6861	6783	6585	2043
45°	2221	4190	4925	4530	4234	1719
55°	1305	2846	3273	2986	2791	1177
65°	697	1900	2130	1953	1802	702
75°	364	1318	1320	1129	995	390
85°	149	854	655	512	438	141
90°	55	510	374	281	240	38
95°	74	353	283	230	208	60
105°	81	215	236	210	202	85
115°	70	378	159	238	249	72
125°	62	448	249	170	151	55
135°	49	406	504	259	225	38
145°	42	310	500	519	514	27
155°	40	87	453	493	510	19
165°	40	57	108	264	323	11
175°	40	42	49	53	45	4
180°	38	38	38	38	38	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4
2.5°	5071.6	5061.0	5084.4	5105.6	5107.8	5122.6	5120.5	5148.2	5182.2	5224.7	5267.2
5°	5035.5	5041.9	5097.1	5182.2	5254.4	5318.2	5352.2	5469.1	5566.9	5702.9	5836.8
7.5°	4997.2	5014.2	5133.3	5296.9	5462.7	5556.3	5641.3	5843.2	6021.8	6210.9	6374.6
10°	4927.1	4967.5	5169.4	5435.1	5694.4	5826.2	5947.4	6193.9	6451.1	6689.2	6901.8
12.5°	4859.1	4925.0	5199.2	5543.5	5868.7	6034.5	6193.9	6510.6	6801.9	7105.8	7346.0
15°	4735.8	4850.6	5216.2	5634.9	6026.0	6196.1	6395.9	6761.5	7105.8	7420.4	7709.5
17.5°	4629.5	4778.3	5207.7	5681.7	6138.7	6338.5	6538.3	6929.4	7307.7	7667.0	7943.3
20°	4491.3	4680.5	5182.2	5702.9	6183.3	6415.0	6631.8	7052.7	7450.2	7792.4	8075.1
22.5°	4340.4	4561.5	5118.4	5668.9	6179.1	6419.2	6655.2	7080.3	7475.7	7817.9	8090.0
25°	4151.3	4423.3	5005.7	5592.4	6121.7	6389.5	6604.2	7027.2	7420.4	7747.7	8024.1
27.5°	3966.3	4261.8	4878.2	5477.6	6017.5	6270.5	6483.0	6929.4	7309.9	7618.1	7881.6
30°	3753.8	4074.7	4712.4	5311.8	5851.7	6100.4	6327.8	6742.3	7105.8	7409.8	7635.1
32.5°	3530.6	3860.1	4510.5	5097.1	5622.2	5887.9	6094.0	6500.0	6855.0	7103.7	7301.4
35°	3277.6	3636.9	4257.5	4850.6	5354.3	5596.6	5805.0	6185.4	6519.1	6744.5	6861.4
37.5°	3016.2	3388.2	4002.5	4553.0	5056.8	5260.8	5462.7	5847.5	6121.7	6319.3	6402.2
40°	2765.4	3114.0	3698.5	4257.5	4716.7	4922.8	5101.4	5450.0	5717.8	5853.8	5898.5
42.5°	2499.7	2850.4	3400.9	3921.7	4363.8	4561.5	4740.0	5046.1	5279.9	5401.1	5390.5
45°	2221.2	2574.1	3084.2	3594.4	4015.2	4189.5	4365.9	4629.5	4842.1	4925.0	4925.0
47.5°	1968.3	2289.2	2801.5	3254.3	3658.1	3832.4	3994.0	4240.5	4414.8	4474.3	4453.1
50°	1732.3	2032.1	2503.9	2929.0	3322.3	3494.5	3630.5	3872.8	4023.7	4051.4	4036.5
52.5°	1511.3	1787.6	2231.9	2648.5	3007.7	3158.6	3298.9	3515.7	3639.0	3666.6	3639.0
55°	1305.1	1566.6	1978.9	2374.3	2712.2	2846.1	2988.6	3173.5	3271.3	3279.8	3273.4
57.5°	1115.9	1371.0	1757.9	2127.7	2438.0	2576.2	2691.0	2863.2	2924.8	2948.2	2937.5
60°	956.5	1198.8	1555.9	1910.9	2200.0	2325.4	2431.7	2550.7	2625.1	2631.5	2652.7
62.5°	816.2	1047.9	1390.1	1713.2	1993.8	2100.1	2193.6	2302.0	2355.1	2363.6	2363.6
65°	697.2	916.1	1245.6	1541.0	1800.4	1900.3	1974.7	2074.6	2108.6	2108.6	2129.8
67.5°	595.2	807.7	1115.9	1407.1	1640.9	1717.5	1794.0	1864.1	1876.9	1902.4	1917.3
70°	508.0	716.3	1005.4	1288.1	1490.0	1572.9	1630.3	1670.7	1698.3	1698.3	1704.7
72.5°	429.4	631.3	909.7	1181.8	1375.2	1434.8	1475.2	1519.8	1530.4	1528.3	1532.5
75°	363.5	561.2	835.4	1075.5	1260.5	1317.9	1349.7	1379.5	1373.1	1360.4	1320.0
77.5°	306.1	497.4	769.5	1001.1	1156.3	1215.8	1239.2	1249.8	1215.8	1173.3	1135.1
80°	248.7	437.9	697.2	916.1	1062.8	1109.6	1122.3	1084.0	1045.8	1011.8	969.3
82.5°	195.6	382.6	635.5	841.7	962.9	977.8	982.0	941.6	907.6	865.1	822.6
85°	148.8	329.5	565.4	741.8	835.4	854.5	848.1	801.3	750.3	703.6	654.7
87.5°	99.9	269.9	480.4	627.0	697.2	699.3	684.4	641.9	601.5	554.8	503.8
90°	55.3	189.2	355.0	457.0	514.4	510.1	514.4	480.4	448.5	412.4	374.1
92.5°	63.8	144.5	257.2	361.3	423.0	429.4	433.6	410.2	382.6	355.0	318.8
95°	74.4	127.5	180.7	272.1	335.8	352.8	357.1	350.7	335.8	314.6	282.7
97.5°	76.5	131.8	187.1	191.3	272.1	293.3	306.1	304.0	291.2	274.2	259.3
100°	78.6	142.4	214.7	206.2	195.6	229.6	252.9	272.1	269.9	257.2	238.1
102.5°	80.8	148.8	248.7	238.1	204.1	182.8	189.2	238.1	250.8	246.6	235.9
105°	80.8	153.0	257.2	278.5	235.9	214.7	191.3	189.2	223.2	238.1	235.9
107.5°	80.8	148.8	263.6	325.2	276.3	248.7	225.3	178.5	165.8	216.8	229.6
110°	78.6	142.4	269.9	361.3	312.5	287.0	259.3	206.2	170.0	148.8	214.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	74.4	123.3	269.9	359.2	365.6	323.1	293.3	238.1	191.3	163.7	142.4
115°	70.1	106.3	265.7	359.2	431.5	378.4	325.2	272.1	221.1	184.9	159.4
117.5°	70.1	95.7	265.7	361.3	431.5	457.0	389.0	304.0	248.7	210.4	176.4
120°	68.0	87.1	259.3	361.3	431.5	457.0	478.3	344.3	278.5	235.9	204.1
122.5°	63.8	78.6	242.3	355.0	427.2	452.7	471.9	418.7	314.6	263.6	225.3
125°	61.6	70.1	201.9	348.6	420.9	448.5	469.8	497.4	363.5	289.1	248.7
127.5°	59.5	65.9	167.9	350.7	412.4	440.0	463.4	493.1	480.4	331.6	278.5
130°	55.3	63.8	136.0	342.2	401.7	429.4	454.9	484.6	501.6	435.7	318.8
132.5°	51.0	59.5	108.4	304.0	391.1	418.7	442.1	478.3	497.4	505.9	399.6
135°	48.9	55.3	82.9	255.1	386.9	406.0	429.4	471.9	495.3	505.9	503.8
137.5°	46.8	55.3	74.4	201.9	386.9	401.7	416.6	457.0	486.8	503.8	503.8
140°	44.6	53.1	61.6	155.2	352.8	403.9	410.2	446.4	478.3	499.5	510.1
142.5°	44.6	51.0	59.5	121.2	284.8	376.2	410.2	431.5	465.5	493.1	508.0
145°	42.5	48.9	57.4	89.3	216.8	310.3	393.2	423.0	450.6	478.3	499.5
147.5°	42.5	46.8	55.3	72.3	163.7	238.1	323.1	429.4	437.9	463.4	484.6
150°	40.4	46.8	55.3	59.5	121.2	170.0	242.3	391.1	440.0	446.4	469.8
152.5°	40.4	44.6	55.3	59.5	87.1	123.3	172.2	295.5	412.4	448.5	452.7
155°	40.4	44.6	53.1	57.4	68.0	87.1	116.9	210.4	325.2	431.5	452.7
157.5°	40.4	44.6	51.0	57.4	59.5	65.9	82.9	138.2	229.6	327.3	416.6
160°	40.4	42.5	51.0	55.3	59.5	59.5	61.6	95.7	142.4	216.8	291.2
162.5°	40.4	42.5	46.8	53.1	57.4	59.5	59.5	63.8	91.4	131.8	184.9
165°	40.4	42.5	46.8	51.0	55.3	57.4	59.5	61.6	61.6	76.5	108.4
167.5°	40.4	40.4	44.6	48.9	53.1	55.3	55.3	59.5	59.5	61.6	63.8
170°	40.4	40.4	42.5	46.8	48.9	51.0	53.1	55.3	57.4	59.5	59.5
172.5°	40.4	40.4	42.5	42.5	44.6	46.8	46.8	48.9	53.1	53.1	55.3
175°	40.4	40.4	40.4	40.4	42.5	42.5	42.5	44.6	44.6	46.8	48.9
177.5°	38.3	38.3	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	42.5
180°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4	5050.4
2.5°	5339.5	5335.2	5375.6	5433.0	5422.4	5445.7	5477.6	5511.6	5515.9	5486.1
5°	5930.4	5998.4	6100.4	6174.8	6217.3	6236.4	6293.8	6327.8	6310.8	6391.6
7.5°	6574.4	6676.4	6806.1	6927.3	6976.1	6991.0	7046.3	7141.9	7133.4	7171.7
10°	7120.7	7269.5	7435.3	7592.6	7637.2	7686.1	7771.1	7832.8	7856.1	7839.1
12.5°	7598.9	7796.6	7953.9	8087.8	8175.0	8260.0	8334.4	8391.8	8442.8	8455.6
15°	7968.8	8164.3	8347.1	8519.3	8576.7	8623.5	8719.1	8770.1	8774.4	8782.9
17.5°	8204.7	8379.0	8557.6	8704.2	8772.3	8816.9	8893.4	8957.2	8976.3	8993.3
20°	8319.5	8478.9	8651.1	8787.1	8857.3	8899.8	8978.4	9021.0	9052.8	9080.5
22.5°	8325.9	8491.7	8661.7	8793.5	8855.2	8904.0	8978.4	9027.3	9052.8	9067.7
25°	8236.6	8406.7	8576.7	8670.2	8729.8	8774.4	8791.4	8785.0	8780.8	8797.8
27.5°	8072.9	8213.2	8317.4	8355.6	8338.6	8342.9	8304.6	8260.0	8243.0	8234.5
30°	7783.9	7881.6	7885.9	7881.6	7858.3	7871.0	7839.1	7826.4	7856.1	7866.8
32.5°	7386.4	7420.4	7441.7	7390.6	7390.6	7388.5	7401.3	7369.4	7386.4	7424.6
35°	6931.5	6884.7	6882.6	6808.2	6782.7	6770.0	6697.7	6640.3	6602.0	6585.0
37.5°	6393.7	6332.1	6313.0	6219.4	6183.3	6147.2	6034.5	5930.4	5873.0	5841.1
40°	5873.0	5805.0	5762.4	5647.7	5592.4	5552.0	5454.2	5333.1	5309.7	5241.7
42.5°	5352.2	5320.3	5205.5	5126.9	5037.6	4978.1	4882.5	4801.7	4735.8	4706.0
45°	4897.3	4818.7	4718.8	4591.2	4529.6	4470.1	4368.1	4297.9	4263.9	4234.2
47.5°	4425.5	4348.9	4263.9	4142.8	4093.9	4042.9	3955.7	3883.4	3849.4	3834.5
50°	4004.6	3932.3	3847.3	3704.9	3675.1	3622.0	3543.3	3492.3	3451.9	3437.1
52.5°	3600.7	3545.5	3451.9	3347.8	3320.2	3260.6	3201.1	3137.4	3116.1	3090.6
55°	3247.9	3179.9	3111.8	3028.9	2986.4	2950.3	2886.5	2827.0	2816.4	2790.9
57.5°	2933.3	2865.3	2788.8	2714.4	2695.2	2663.4	2595.3	2559.2	2520.9	2518.8
60°	2614.5	2578.3	2525.2	2459.3	2440.2	2401.9	2338.1	2289.2	2255.2	2248.9
62.5°	2348.8	2319.0	2265.9	2206.4	2183.0	2153.2	2100.1	2044.8	2023.6	2010.8
65°	2119.2	2083.1	2034.2	1987.4	1953.4	1947.0	1885.4	1836.5	1808.9	1802.5
67.5°	1889.6	1876.9	1836.5	1791.9	1764.2	1730.2	1679.2	1626.1	1598.4	1581.4
70°	1698.3	1675.0	1623.9	1555.9	1526.2	1507.0	1432.6	1388.0	1362.5	1347.6
72.5°	1498.5	1458.1	1396.5	1339.1	1309.4	1283.8	1235.0	1192.4	1173.3	1156.3
75°	1283.8	1249.8	1201.0	1158.4	1128.7	1109.6	1069.2	1026.7	1005.4	994.8
77.5°	1107.4	1069.2	1043.7	1001.1	971.4	948.0	911.9	873.6	863.0	850.2
80°	939.5	909.7	882.1	839.6	812.0	792.8	756.7	722.7	703.6	705.7
82.5°	773.7	744.0	707.8	671.7	654.7	633.4	605.8	582.4	576.0	563.3
85°	614.3	586.7	559.0	527.1	512.3	499.5	471.9	454.9	442.1	437.9
87.5°	474.0	446.4	420.9	395.4	386.9	374.1	352.8	346.5	335.8	325.2
90°	342.2	323.1	304.0	289.1	280.6	272.1	261.4	255.1	244.4	240.2
92.5°	293.3	272.1	259.3	246.6	244.4	238.1	229.6	223.2	216.8	212.6
95°	261.4	248.7	240.2	231.7	229.6	225.3	218.9	216.8	212.6	208.3
97.5°	244.4	233.8	227.4	223.2	223.2	221.1	218.9	214.7	212.6	210.4
100°	225.3	212.6	212.6	214.7	214.7	214.7	214.7	214.7	212.6	210.4
102.5°	223.2	212.6	210.4	206.2	206.2	201.9	201.9	199.8	197.7	195.6
105°	227.4	221.1	214.7	212.6	210.4	210.4	206.2	204.1	201.9	201.9
107.5°	231.7	229.6	227.4	223.2	223.2	223.2	218.9	218.9	216.8	212.6
110°	227.4	231.7	233.8	233.8	233.8	233.8	233.8	233.8	229.6	229.6



TEST NUMBER: P236378

CATALOG NUMBER: SKB2-LD5-18-N-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	212.6	225.3	233.8	242.3	242.3	244.4	244.4	244.4	244.4	242.3
115°	144.5	150.9	225.3	235.9	238.1	242.3	246.6	250.8	250.8	248.7
117.5°	161.5	146.7	138.2	133.9	184.9	214.7	242.3	250.8	248.7	248.7
120°	178.5	161.5	150.9	142.4	142.4	138.2	136.0	136.0	136.0	144.5
122.5°	201.9	180.7	163.7	155.2	153.0	150.9	148.8	144.5	142.4	140.3
125°	223.2	204.1	187.1	172.2	170.0	165.8	161.5	157.3	155.2	150.9
127.5°	244.4	223.2	208.3	197.7	193.4	191.3	178.5	174.3	167.9	167.9
130°	274.2	246.6	227.4	216.8	210.4	208.3	201.9	197.7	193.4	191.3
132.5°	312.5	276.3	255.1	240.2	233.8	229.6	221.1	214.7	208.3	208.3
135°	408.1	323.1	287.0	267.8	259.3	255.1	244.4	235.9	227.4	225.3
137.5°	501.6	461.3	346.5	308.2	297.6	287.0	272.1	261.4	252.9	252.9
140°	508.0	505.9	505.9	414.5	376.2	352.8	316.7	299.7	291.2	282.7
142.5°	512.3	514.4	508.0	512.3	514.4	512.3	493.1	433.6	395.4	393.2
145°	510.1	516.5	516.5	516.5	518.6	518.6	516.5	518.6	512.3	514.4
147.5°	503.8	512.3	518.6	525.0	520.8	525.0	527.1	527.1	525.0	525.0
150°	486.8	503.8	514.4	520.8	518.6	520.8	520.8	522.9	516.5	516.5
152.5°	469.8	486.8	499.5	512.3	512.3	516.5	516.5	516.5	514.4	514.4
155°	450.6	463.4	478.3	491.0	493.1	497.4	503.8	505.9	510.1	510.1
157.5°	452.7	452.7	457.0	465.5	467.6	471.9	476.1	480.4	482.5	484.6
160°	367.7	433.6	454.9	465.5	461.3	457.0	454.9	459.1	454.9	459.1
162.5°	248.7	289.1	348.6	397.5	420.9	437.9	444.2	450.6	452.7	457.0
165°	136.0	170.0	210.4	257.2	263.6	274.2	293.3	306.1	327.3	323.1
167.5°	70.1	93.5	108.4	121.2	129.7	136.0	161.5	167.9	163.7	174.3
170°	61.6	61.6	63.8	63.8	65.9	68.0	70.1	82.9	76.5	72.3
172.5°	57.4	57.4	59.5	59.5	61.6	61.6	59.5	57.4	55.3	53.1
175°	48.9	51.0	53.1	53.1	53.1	55.3	53.1	51.0	48.9	44.6
177.5°	42.5	42.5	42.5	44.6	44.6	44.6	42.5	40.4	38.3	36.1
180°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3

(END OF REPORT)