

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: P236375

Luminaire Tested: **SKB2-LD5-15-N-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236375
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-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

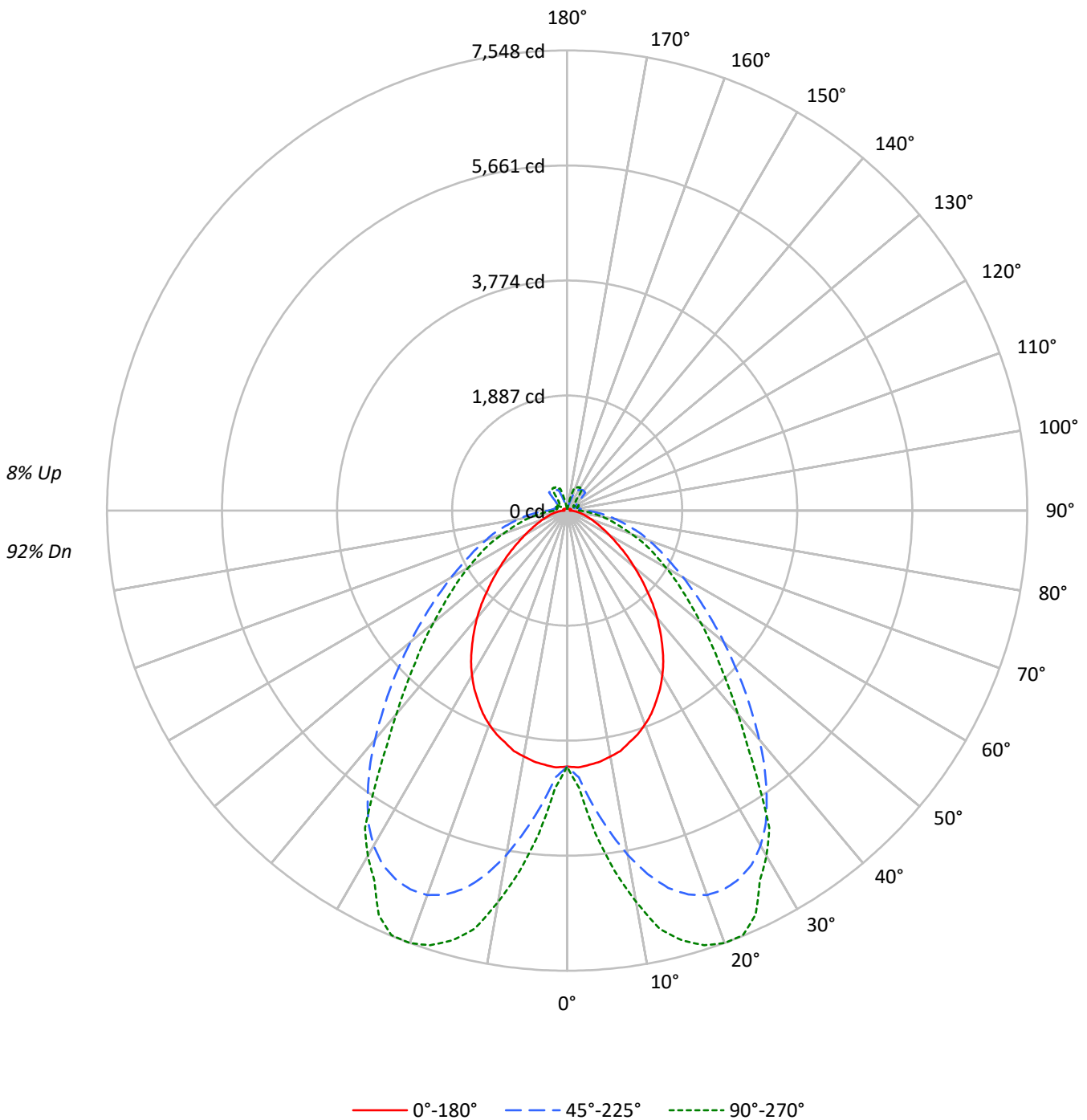
Lumens per Lamp: N/A
Luminaire Lumens: 17427.0 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.63 / 1.59
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 132.4
Input Voltage (V): 120
Input Current (A_{in}): 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°	18075	18075	18075
5°	17927	20624	22633
10°	17583	24263	27675
15°	17071	27171	31151
20°	16481	28751	32607
25°	15634	29089	32237
30°	14633	28412	29657
35°	13347	26434	25764
40°	11881	23743	21485
45°	10182	20921	18369
50°	8580	18298	15966
55°	7089	16039	14066
60°	5800	14259	12491
65°	4826	12786	11245
70°	4133	11688	9673
75°	3619	10645	8481
80°	3222	9576	7477
85°	2790	8430	6190



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.9	2.8
10°-20°	1716.3	9.8
20°-30°	2813.3	16.1
30°-40°	3143.9	18.0
40°-50°	2739.0	15.7
50°-60°	2108.1	12.1
60°-70°	1512.5	8.7
70°-80°	998.7	5.7
80°-90°	539.9	3.1
90°-100°	239.1	1.4
100°-110°	190.5	1.1
110°-120°	191.0	1.1
120°-130°	184.7	1.1
130°-140°	200.1	1.1
140°-150°	198.7	1.1
150°-160°	126.2	0.7
160°-170°	39.9	0.2
170°-180°	4.0	0.0
0°-30°	5010.5	28.8
0°-40°	8154.4	46.8
0°-60°	13001.5	74.6
0°-90°	16052.7	92.1
90°-120°	620.6	3.6
90°-150°	1204.2	6.9
90°-180°	1374.0	7.9
0°-180°	17427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4198	4198	4198	4198	4198	
5°	4186	4421	4852	5168	5313	397
15°	3937	5150	6408	7129	7301	1110
25°	3451	5311	6670	7256	7313	1587
35°	2724	4652	5704	5638	5474	1698
45°	1846	3482	4094	3765	3520	1429
55°	1085	2366	2721	2482	2320	978
65°	580	1580	1770	1624	1498	584
75°	302	1096	1097	938	827	324
85°	124	710	544	426	364	117
90°	46	424	311	233	200	31
95°	62	293	235	191	173	50
105°	67	178	196	175	168	71
115°	58	314	132	198	207	59
125°	51	373	207	141	125	46
135°	41	338	419	216	187	32
145°	35	258	415	431	428	23
155°	34	72	376	410	424	16
165°	34	48	90	219	269	10
175°	34	35	41	44	37	3
180°	32	32	32	32	32	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1
2.5°	4215.8	4206.9	4226.4	4244.0	4245.8	4258.2	4256.4	4279.4	4307.6	4343.0	4378.3
5°	4185.7	4191.0	4237.0	4307.6	4367.7	4420.7	4449.0	4546.2	4627.4	4740.5	4851.8
7.5°	4153.9	4168.0	4267.0	4403.0	4540.9	4618.6	4689.3	4857.1	5005.5	5162.8	5298.8
10°	4095.6	4129.2	4297.0	4517.9	4733.4	4843.0	4943.7	5148.7	5362.5	5560.3	5737.0
12.5°	4039.1	4093.8	4321.8	4608.0	4878.3	5016.1	5148.7	5411.9	5654.0	5906.7	6106.3
15°	3936.6	4032.0	4335.9	4684.0	5009.1	5150.4	5316.5	5620.4	5906.7	6168.1	6408.4
17.5°	3848.2	3971.9	4328.8	4722.8	5102.7	5268.8	5434.9	5760.0	6074.5	6373.1	6602.8
20°	3733.4	3890.7	4307.6	4740.5	5139.8	5332.4	5512.6	5862.5	6192.9	6477.4	6712.3
22.5°	3608.0	3791.7	4254.6	4712.2	5136.3	5336.0	5532.1	5885.4	6214.1	6498.6	6724.7
25°	3450.7	3676.9	4161.0	4648.6	5088.6	5311.2	5489.7	5841.3	6168.1	6440.2	6669.9
27.5°	3297.0	3542.6	4055.0	4553.2	5002.0	5212.3	5389.0	5760.0	6076.3	6332.5	6551.6
30°	3120.3	3387.1	3917.2	4415.4	4864.2	5070.9	5260.0	5604.5	5906.7	6159.3	6346.6
32.5°	2934.8	3208.6	3749.3	4237.0	4673.4	4894.2	5065.6	5403.1	5698.2	5904.9	6069.2
35°	2724.5	3023.1	3539.0	4032.0	4450.7	4652.2	4825.3	5141.6	5419.0	5606.3	5703.5
37.5°	2507.2	2816.4	3327.0	3784.6	4203.4	4373.0	4540.9	4860.7	5088.6	5252.9	5321.8
40°	2298.7	2588.5	3074.4	3539.0	3920.7	4092.1	4240.5	4530.3	4752.9	4866.0	4903.1
42.5°	2077.8	2369.4	2827.0	3259.9	3627.4	3791.7	3940.1	4194.6	4388.9	4489.6	4480.8
45°	1846.4	2139.7	2563.7	2987.8	3337.6	3482.5	3629.2	3848.2	4024.9	4093.8	4093.8
47.5°	1636.1	1902.9	2328.7	2705.1	3040.8	3185.7	3320.0	3524.9	3669.8	3719.3	3701.6
50°	1440.0	1689.1	2081.4	2434.7	2761.6	2904.7	3017.8	3219.2	3344.7	3367.7	3355.3
52.5°	1256.2	1485.9	1855.2	2201.5	2500.1	2625.6	2742.2	2922.4	3024.9	3047.9	3024.9
55°	1084.9	1302.2	1645.0	1973.6	2254.5	2365.8	2484.2	2637.9	2719.2	2726.3	2721.0
57.5°	927.6	1139.6	1461.2	1768.6	2026.6	2141.4	2236.9	2380.0	2431.2	2450.7	2441.8
60°	795.1	996.5	1293.3	1588.4	1828.7	1933.0	2021.3	2120.2	2182.1	2187.4	2205.1
62.5°	678.5	871.1	1155.5	1424.1	1657.3	1745.7	1823.4	1913.5	1957.7	1964.8	1964.8
65°	579.5	761.5	1035.4	1281.0	1496.5	1579.6	1641.4	1724.5	1752.7	1752.7	1770.4
67.5°	494.7	671.4	927.6	1169.7	1364.0	1427.6	1491.2	1549.5	1560.1	1581.3	1593.7
70°	422.3	595.4	835.7	1070.7	1238.6	1307.5	1355.2	1388.8	1411.7	1411.7	1417.0
72.5°	356.9	524.8	756.2	982.4	1143.2	1192.6	1226.2	1263.3	1272.1	1270.4	1273.9
75°	302.1	466.5	694.4	894.0	1047.8	1095.5	1122.0	1146.7	1141.4	1130.8	1097.2
77.5°	254.4	413.4	639.6	832.2	961.2	1010.7	1030.1	1038.9	1010.7	975.3	943.5
80°	206.7	364.0	579.5	761.5	883.4	922.3	932.9	901.1	869.3	841.0	805.7
82.5°	162.6	318.0	528.3	699.7	800.4	812.8	816.3	782.7	754.5	719.1	683.8
85°	123.7	273.9	470.0	616.6	694.4	710.3	705.0	666.1	623.7	584.8	544.2
87.5°	83.0	224.4	399.3	521.2	579.5	581.3	568.9	533.6	500.0	461.2	418.7
90°	45.9	157.3	295.1	379.9	427.6	424.0	427.6	399.3	372.8	342.8	311.0
92.5°	53.0	120.1	213.8	300.4	351.6	356.9	360.4	341.0	318.0	295.1	265.0
95°	61.8	106.0	150.2	226.2	279.2	293.3	296.8	291.5	279.2	261.5	235.0
97.5°	63.6	109.5	155.5	159.0	226.2	243.8	254.4	252.7	242.1	227.9	215.6
100°	65.4	118.4	178.5	171.4	162.6	190.8	210.3	226.2	224.4	213.8	197.9
102.5°	67.1	123.7	206.7	197.9	169.6	152.0	157.3	197.9	208.5	205.0	196.1
105°	67.1	127.2	213.8	231.5	196.1	178.5	159.0	157.3	185.5	197.9	196.1
107.5°	67.1	123.7	219.1	270.3	229.7	206.7	187.3	148.4	137.8	180.2	190.8
110°	65.4	118.4	224.4	300.4	259.7	238.5	215.6	171.4	141.3	123.7	178.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	61.8	102.5	224.4	298.6	303.9	268.6	243.8	197.9	159.0	136.0	118.4
115°	58.3	88.3	220.9	298.6	358.7	314.5	270.3	226.2	183.8	153.7	132.5
117.5°	58.3	79.5	220.9	300.4	358.7	379.9	323.3	252.7	206.7	174.9	146.7
120°	56.5	72.4	215.6	300.4	358.7	379.9	397.5	286.2	231.5	196.1	169.6
122.5°	53.0	65.4	201.4	295.1	355.1	376.3	392.2	348.1	261.5	219.1	187.3
125°	51.2	58.3	167.9	289.8	349.8	372.8	390.5	413.4	302.1	240.3	206.7
127.5°	49.5	54.8	139.6	291.5	342.8	365.7	385.2	409.9	399.3	275.6	231.5
130°	45.9	53.0	113.1	284.5	333.9	356.9	378.1	402.8	417.0	362.2	265.0
132.5°	42.4	49.5	90.1	252.7	325.1	348.1	367.5	397.5	413.4	420.5	332.2
135°	40.6	45.9	68.9	212.0	321.6	337.5	356.9	392.2	411.7	420.5	418.7
137.5°	38.9	45.9	61.8	167.9	321.6	333.9	346.3	379.9	404.6	418.7	418.7
140°	37.1	44.2	51.2	129.0	293.3	335.7	341.0	371.0	397.5	415.2	424.0
142.5°	37.1	42.4	49.5	100.7	236.8	312.7	341.0	358.7	386.9	409.9	422.3
145°	35.3	40.6	47.7	74.2	180.2	258.0	326.9	351.6	374.6	397.5	415.2
147.5°	35.3	38.9	45.9	60.1	136.0	197.9	268.6	356.9	364.0	385.2	402.8
150°	33.6	38.9	45.9	49.5	100.7	141.3	201.4	325.1	365.7	371.0	390.5
152.5°	33.6	37.1	45.9	49.5	72.4	102.5	143.1	245.6	342.8	372.8	376.3
155°	33.6	37.1	44.2	47.7	56.5	72.4	97.2	174.9	270.3	358.7	376.3
157.5°	33.6	37.1	42.4	47.7	49.5	54.8	68.9	114.8	190.8	272.1	346.3
160°	33.6	35.3	42.4	45.9	49.5	49.5	51.2	79.5	118.4	180.2	242.1
162.5°	33.6	35.3	38.9	44.2	47.7	49.5	49.5	53.0	76.0	109.5	153.7
165°	33.6	35.3	38.9	42.4	45.9	47.7	49.5	51.2	51.2	63.6	90.1
167.5°	33.6	33.6	37.1	40.6	44.2	45.9	45.9	49.5	49.5	51.2	53.0
170°	33.6	33.6	35.3	38.9	40.6	42.4	44.2	45.9	47.7	49.5	49.5
172.5°	33.6	33.6	35.3	35.3	37.1	38.9	38.9	40.6	44.2	44.2	45.9
175°	33.6	33.6	33.6	33.6	35.3	35.3	35.3	37.1	37.1	38.9	40.6
177.5°	31.8	31.8	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	35.3
180°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1
2.5°	4438.4	4434.8	4468.4	4516.1	4507.3	4526.7	4553.2	4581.5	4585.0	4560.3
5°	4929.6	4986.1	5070.9	5132.8	5168.1	5184.0	5231.7	5260.0	5245.8	5313.0
7.5°	5464.9	5549.7	5657.5	5758.2	5798.9	5811.2	5857.2	5936.7	5929.6	5961.4
10°	5919.0	6042.7	6180.5	6311.3	6348.4	6389.0	6459.7	6510.9	6530.4	6516.2
12.5°	6316.6	6480.9	6611.6	6722.9	6795.4	6866.1	6927.9	6975.6	7018.0	7028.6
15°	6624.0	6786.6	6938.5	7081.6	7129.3	7168.2	7247.7	7290.1	7293.6	7300.7
17.5°	6820.1	6965.0	7113.4	7235.3	7291.9	7329.0	7392.6	7445.6	7461.5	7475.6
20°	6915.5	7048.0	7191.2	7304.2	7362.6	7397.9	7463.3	7498.6	7525.1	7548.1
22.5°	6920.8	7058.7	7200.0	7309.5	7360.8	7401.4	7463.3	7503.9	7525.1	7537.5
25°	6846.6	6988.0	7129.3	7207.1	7256.5	7293.6	7307.8	7302.5	7298.9	7313.1
27.5°	6710.6	6827.2	6913.8	6945.6	6931.4	6935.0	6903.2	6866.1	6851.9	6844.9
30°	6470.3	6551.6	6555.1	6551.6	6532.1	6542.7	6516.2	6505.6	6530.4	6539.2
32.5°	6139.9	6168.1	6185.8	6143.4	6143.4	6141.6	6152.2	6125.7	6139.9	6171.7
35°	5761.8	5722.9	5721.1	5659.3	5638.1	5627.5	5567.4	5519.7	5487.9	5473.8
37.5°	5314.7	5263.5	5247.6	5169.9	5139.8	5109.8	5016.1	4929.6	4881.9	4855.4
40°	4881.9	4825.3	4790.0	4694.6	4648.6	4615.1	4533.8	4433.1	4413.6	4357.1
42.5°	4449.0	4422.5	4327.1	4261.7	4187.5	4138.0	4058.5	3991.4	3936.6	3911.9
45°	4070.9	4005.5	3922.5	3816.4	3765.2	3715.7	3630.9	3572.6	3544.3	3519.6
47.5°	3678.6	3615.0	3544.3	3443.6	3403.0	3360.6	3288.1	3228.1	3199.8	3187.4
50°	3328.8	3268.7	3198.0	3079.7	3054.9	3010.7	2945.4	2903.0	2869.4	2857.0
52.5°	2993.1	2947.1	2869.4	2782.8	2759.9	2710.4	2660.9	2607.9	2590.2	2569.0
55°	2699.8	2643.2	2586.7	2517.8	2482.5	2452.4	2399.4	2349.9	2341.1	2319.9
57.5°	2438.3	2381.7	2318.1	2256.3	2240.4	2213.9	2157.3	2127.3	2095.5	2093.7
60°	2173.3	2143.2	2099.0	2044.3	2028.4	1996.6	1943.6	1902.9	1874.7	1869.3
62.5°	1952.4	1927.7	1883.5	1834.0	1814.6	1789.8	1745.7	1699.7	1682.1	1671.5
65°	1761.6	1731.5	1690.9	1652.0	1623.8	1618.5	1567.2	1526.6	1503.6	1498.3
67.5°	1570.7	1560.1	1526.6	1489.5	1466.5	1438.2	1395.8	1351.7	1328.7	1314.6
70°	1411.7	1392.3	1349.9	1293.3	1268.6	1252.7	1190.9	1153.8	1132.6	1120.2
72.5°	1245.6	1212.1	1160.8	1113.1	1088.4	1067.2	1026.6	991.2	975.3	961.2
75°	1067.2	1038.9	998.3	962.9	938.2	922.3	888.7	853.4	835.7	826.9
77.5°	920.5	888.7	867.5	832.2	807.5	788.0	758.0	726.2	717.3	706.7
80°	781.0	756.2	733.3	697.9	674.9	659.0	629.0	600.7	584.8	586.6
82.5°	643.1	618.4	588.4	558.3	544.2	526.5	503.6	484.1	478.8	468.2
85°	510.6	487.7	464.7	438.2	425.8	415.2	392.2	378.1	367.5	364.0
87.5°	394.0	371.0	349.8	328.6	321.6	311.0	293.3	288.0	279.2	270.3
90°	284.5	268.6	252.7	240.3	233.2	226.2	217.3	212.0	203.2	199.7
92.5°	243.8	226.2	215.6	205.0	203.2	197.9	190.8	185.5	180.2	176.7
95°	217.3	206.7	199.7	192.6	190.8	187.3	182.0	180.2	176.7	173.2
97.5°	203.2	194.4	189.1	185.5	185.5	183.8	182.0	178.5	176.7	174.9
100°	187.3	176.7	176.7	178.5	178.5	178.5	178.5	178.5	176.7	174.9
102.5°	185.5	176.7	174.9	171.4	171.4	167.9	167.9	166.1	164.3	162.6
105°	189.1	183.8	178.5	176.7	174.9	174.9	171.4	169.6	167.9	167.9
107.5°	192.6	190.8	189.1	185.5	185.5	185.5	182.0	182.0	180.2	176.7
110°	189.1	192.6	194.4	194.4	194.4	194.4	194.4	194.4	190.8	190.8



TEST NUMBER: P236375

CATALOG NUMBER: SKB2-LD5-15-N-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	176.7	187.3	194.4	201.4	201.4	203.2	203.2	203.2	203.2	201.4
115°	120.1	125.4	187.3	196.1	197.9	201.4	205.0	208.5	208.5	206.7
117.5°	134.3	121.9	114.8	111.3	153.7	178.5	201.4	208.5	206.7	206.7
120°	148.4	134.3	125.4	118.4	118.4	114.8	113.1	113.1	113.1	120.1
122.5°	167.9	150.2	136.0	129.0	127.2	125.4	123.7	120.1	118.4	116.6
125°	185.5	169.6	155.5	143.1	141.3	137.8	134.3	130.7	129.0	125.4
127.5°	203.2	185.5	173.2	164.3	160.8	159.0	148.4	144.9	139.6	139.6
130°	227.9	205.0	189.1	180.2	174.9	173.2	167.9	164.3	160.8	159.0
132.5°	259.7	229.7	212.0	199.7	194.4	190.8	183.8	178.5	173.2	173.2
135°	339.2	268.6	238.5	222.6	215.6	212.0	203.2	196.1	189.1	187.3
137.5°	417.0	383.4	288.0	256.2	247.4	238.5	226.2	217.3	210.3	210.3
140°	422.3	420.5	420.5	344.5	312.7	293.3	263.3	249.1	242.1	235.0
142.5°	425.8	427.6	422.3	425.8	427.6	425.8	409.9	360.4	328.6	326.9
145°	424.0	429.3	429.3	429.3	431.1	431.1	429.3	431.1	425.8	427.6
147.5°	418.7	425.8	431.1	436.4	432.9	436.4	438.2	438.2	436.4	436.4
150°	404.6	418.7	427.6	432.9	431.1	432.9	432.9	434.7	429.3	429.3
152.5°	390.5	404.6	415.2	425.8	425.8	429.3	429.3	429.3	427.6	427.6
155°	374.6	385.2	397.5	408.1	409.9	413.4	418.7	420.5	424.0	424.0
157.5°	376.3	376.3	379.9	386.9	388.7	392.2	395.8	399.3	401.1	402.8
160°	305.7	360.4	378.1	386.9	383.4	379.9	378.1	381.6	378.1	381.6
162.5°	206.7	240.3	289.8	330.4	349.8	364.0	369.3	374.6	376.3	379.9
165°	113.1	141.3	174.9	213.8	219.1	227.9	243.8	254.4	272.1	268.6
167.5°	58.3	77.7	90.1	100.7	107.8	113.1	134.3	139.6	136.0	144.9
170°	51.2	51.2	53.0	53.0	54.8	56.5	58.3	68.9	63.6	60.1
172.5°	47.7	47.7	49.5	49.5	51.2	51.2	49.5	47.7	45.9	44.2
175°	40.6	42.4	44.2	44.2	44.2	45.9	44.2	42.4	40.6	37.1
177.5°	35.3	35.3	35.3	37.1	37.1	37.1	35.3	33.6	31.8	30.0
180°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8

(END OF REPORT)