

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: P236390

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236390  
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-L850-CD2-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

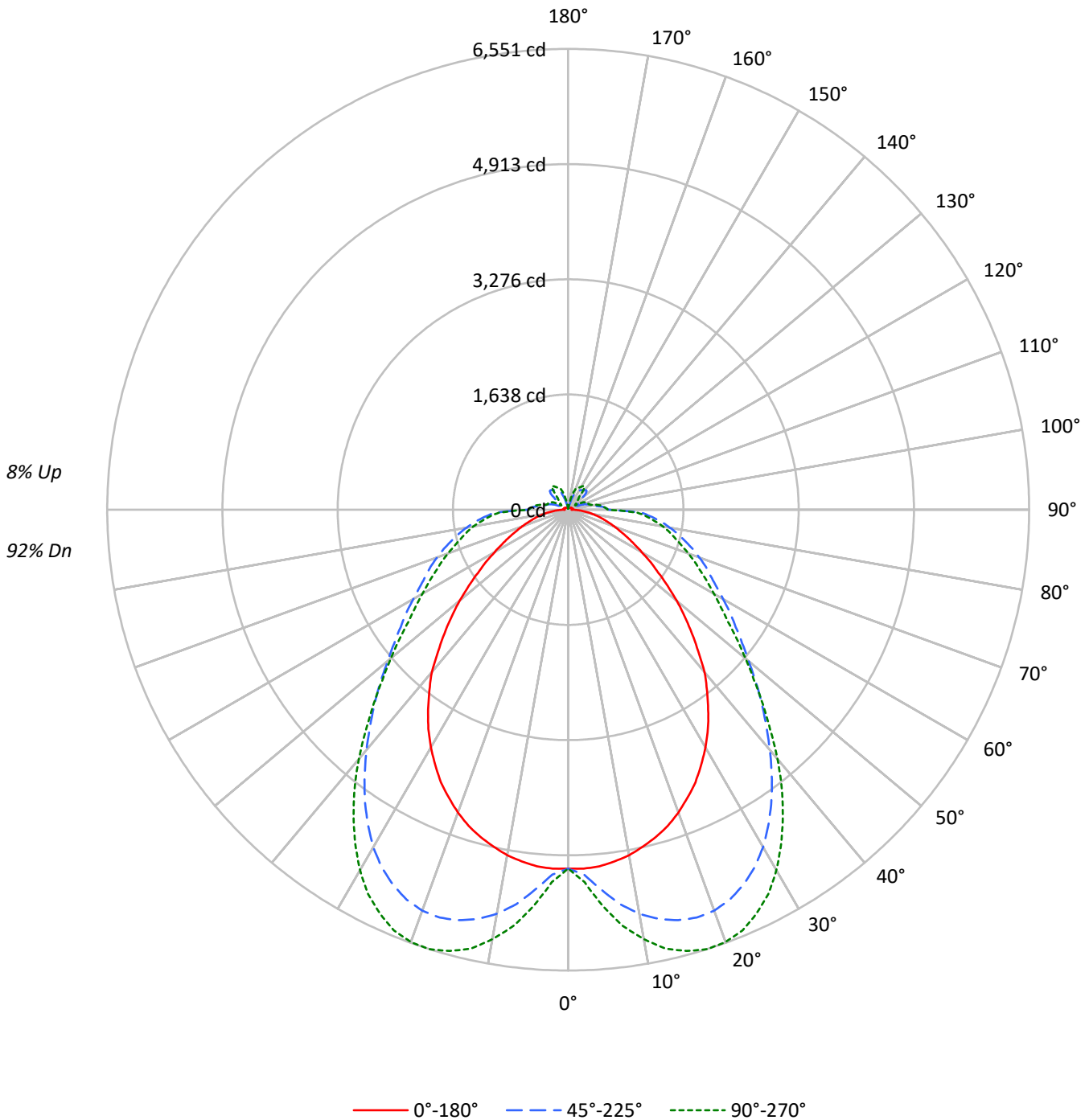
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19060.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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°	21964	21964	21964
5°	21794	23058	24094
10°	21408	24667	26325
15°	20886	25613	27708
20°	20221	25975	28253
25°	19376	25669	27922
30°	18291	24797	26838
35°	16993	23347	25032
40°	15579	21584	22828
45°	13714	19867	20413
50°	11981	18258	18364
55°	10236	17127	16780
60°	8807	16439	15993
65°	7700	16134	15602
70°	6824	16340	15674
75°	6137	16662	16132
80°	5499	17432	17421
85°	4603	18506	19049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.7	2.8
10°-20°	1661.3	8.7
20°-30°	2602.2	13.7
30°-40°	2993.4	15.7
40°-50°	2798.7	14.7
50°-60°	2355.7	12.4
60°-70°	1942.8	10.2
70°-80°	1560.7	8.2
80°-90°	1068.6	5.6
90°-100°	430.1	2.3
100°-110°	262.9	1.4
110°-120°	190.9	1.0
120°-130°	165.3	0.9
130°-140°	184.1	1.0
140°-150°	175.7	0.9
150°-160°	104.3	0.5
160°-170°	34.3	0.2
170°-180°	3.2	0.0
0°-30°	4789.2	25.1
0°-40°	7782.6	40.8
0°-60°	12937.0	67.9
0°-90°	17509.2	91.9
90°-120°	883.9	4.6
90°-150°	1409.1	7.4
90°-180°	1551.0	8.1
0°-180°	19060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5101	5101	5101	5101	5101	
5°	5089	5201	5424	5614	5656	482
15°	4816	5463	6041	6394	6494	1356
25°	4277	5191	5886	6236	6334	1963
35°	3469	4415	5038	5291	5318	2166
45°	2487	3352	3888	3973	3911	1922
55°	1566	2455	2906	2855	2768	1416
65°	925	1856	2234	2130	2079	924
75°	512	1428	1718	1605	1573	545
85°	204	1008	1195	1122	1120	198
90°	51	453	576	563	565	41
95°	64	310	482	495	497	51
105°	64	155	293	306	302	67
115°	53	247	132	227	253	55
125°	47	296	193	138	123	42
135°	36	274	370	221	196	29
145°	30	213	340	402	406	19
155°	28	85	291	330	338	13
165°	28	38	100	187	215	8
175°	26	26	30	32	26	2
180°	23	23	23	23	23	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	5107.8	5112.0	5122.6	5139.6	5141.8	5135.4	5126.9	5141.8	5135.4	5167.3	5192.8
5°	5088.6	5092.9	5116.3	5165.1	5182.1	5201.3	5207.7	5260.8	5303.3	5364.9	5424.5
7.5°	5044.0	5069.5	5107.8	5190.6	5260.8	5290.6	5322.4	5405.3	5490.4	5579.6	5656.1
10°	4986.6	5018.5	5097.1	5218.3	5326.7	5379.8	5426.6	5545.6	5639.1	5736.9	5832.6
12.5°	4905.8	4952.6	5058.9	5231.0	5375.6	5433.0	5492.5	5624.3	5736.9	5856.0	5958.0
15°	4816.5	4878.2	5018.5	5228.9	5388.3	5462.7	5526.5	5666.8	5796.4	5924.0	6040.9
17.5°	4710.3	4782.5	4963.2	5194.9	5371.3	5450.0	5520.1	5668.9	5811.3	5945.2	6079.1
20°	4580.6	4672.0	4888.8	5133.3	5313.9	5401.1	5473.4	5634.9	5787.9	5936.7	6064.3
22.5°	4431.8	4542.3	4778.3	5039.7	5228.9	5313.9	5390.5	5566.9	5730.5	5868.7	6000.5
25°	4276.7	4395.7	4652.9	4916.5	5112.0	5190.6	5275.7	5460.6	5613.6	5756.1	5885.7
27.5°	4091.7	4221.4	4504.1	4769.8	4959.0	5050.4	5133.3	5307.6	5464.8	5613.6	5734.8
30°	3900.4	4040.7	4329.8	4574.2	4771.9	4876.1	4950.5	5118.4	5284.2	5420.2	5539.2
32.5°	3696.4	3830.3	4123.6	4376.6	4563.6	4661.4	4733.7	4899.4	5052.5	5177.9	5299.1
35°	3468.9	3617.7	3904.7	4144.9	4327.7	4414.8	4487.1	4667.8	4801.7	4929.2	5037.6
37.5°	3241.5	3381.8	3656.0	3904.7	4083.2	4164.0	4229.9	4408.4	4533.8	4648.6	4750.7
40°	3014.1	3135.2	3407.3	3630.5	3815.4	3885.5	3964.2	4115.1	4251.1	4368.1	4457.3
42.5°	2735.6	2886.5	3156.5	3375.4	3541.2	3626.2	3700.6	3857.9	3972.7	4076.8	4164.0
45°	2486.9	2644.2	2892.9	3114.0	3284.0	3352.0	3426.4	3575.2	3704.9	3796.3	3887.7
47.5°	2244.6	2401.9	2650.6	2856.8	3026.8	3114.0	3173.5	3324.4	3443.4	3543.3	3611.3
50°	2010.8	2170.2	2408.3	2625.1	2786.6	2867.4	2943.9	3080.0	3211.7	3292.5	3347.8
52.5°	1781.2	1944.9	2200.0	2401.9	2571.9	2646.3	2716.5	2869.5	2990.7	3071.5	3116.1
55°	1566.5	1749.3	2000.2	2206.3	2372.1	2455.0	2529.4	2680.3	2782.4	2852.5	2905.7
57.5°	1388.0	1562.3	1815.2	2029.9	2200.0	2274.4	2355.1	2501.8	2599.6	2674.0	2725.0
60°	1207.3	1396.5	1657.9	1862.0	2038.4	2125.6	2200.0	2331.8	2440.2	2514.6	2542.2
62.5°	1058.5	1254.1	1509.2	1717.5	1904.5	1981.0	2057.6	2189.3	2297.7	2355.1	2376.4
65°	924.6	1124.4	1379.5	1587.8	1777.0	1855.6	1923.6	2066.1	2149.0	2208.5	2234.0
67.5°	801.3	1007.5	1269.0	1477.3	1657.9	1730.2	1804.6	1938.5	2032.0	2091.6	2117.1
70°	697.2	905.5	1158.4	1381.6	1551.7	1630.3	1706.8	1832.2	1921.5	1981.0	1981.0
72.5°	597.3	809.8	1064.9	1279.6	1458.1	1534.7	1596.3	1734.5	1817.4	1857.8	1853.5
75°	512.3	720.6	982.0	1179.7	1360.4	1428.4	1509.2	1634.6	1702.6	1730.2	1717.5
77.5°	429.4	637.7	901.2	1103.2	1271.1	1362.5	1422.0	1524.0	1583.6	1609.1	1594.2
80°	352.8	556.9	812.0	1011.8	1186.1	1252.0	1307.2	1405.0	1458.1	1479.4	1466.6
82.5°	278.5	482.5	731.2	926.7	1073.4	1128.7	1186.1	1279.6	1337.0	1356.1	1341.2
85°	204.1	401.7	641.9	814.1	950.1	1007.5	1062.8	1145.7	1192.4	1213.7	1194.6
87.5°	138.2	325.2	539.9	695.1	816.2	867.2	918.2	990.5	1043.7	1056.4	1050.0
90°	51.0	153.0	280.6	355.0	423.0	452.7	476.1	527.1	563.3	580.3	576.0
92.5°	57.4	121.2	214.7	291.2	352.8	386.9	423.0	474.0	514.4	533.5	535.6
95°	63.8	106.3	150.9	223.2	287.0	310.3	335.8	391.1	437.9	471.9	482.5
97.5°	61.6	108.4	144.5	163.7	231.7	261.4	284.8	327.3	357.1	378.4	399.6
100°	63.8	112.7	161.5	155.2	170.0	206.2	238.1	287.0	318.8	338.0	342.2
102.5°	63.8	114.8	180.7	170.0	155.2	157.3	170.0	242.3	282.7	308.2	318.8
105°	63.8	114.8	184.9	187.1	163.7	155.2	150.9	174.3	235.9	274.2	293.3
107.5°	63.8	114.8	187.1	227.4	182.8	170.0	159.4	146.7	161.5	223.2	259.3
110°	61.6	110.5	189.2	240.2	199.8	187.1	178.5	153.0	140.3	157.3	208.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	57.4	95.7	187.1	242.3	235.9	208.3	195.6	170.0	146.7	133.9	146.7
115°	53.1	85.0	184.9	242.3	274.2	246.6	214.7	187.1	163.7	142.4	131.8
117.5°	53.1	80.8	189.2	240.2	284.8	293.3	259.3	204.1	180.7	159.4	140.3
120°	51.0	70.1	176.4	240.2	282.7	304.0	304.0	229.6	195.6	178.5	159.4
122.5°	48.9	57.4	176.4	240.2	280.6	301.8	318.8	304.0	218.9	193.4	176.4
125°	46.8	55.3	159.4	238.1	276.3	295.5	314.6	331.6	261.4	214.7	193.4
127.5°	44.6	53.1	136.0	238.1	272.1	291.2	308.2	338.0	323.1	250.8	214.7
130°	42.5	48.9	121.2	221.1	265.7	282.7	301.8	331.6	359.2	329.5	250.8
132.5°	40.4	46.8	97.8	210.4	263.6	276.3	291.2	323.1	350.7	365.6	333.7
135°	36.1	42.5	82.9	189.2	265.7	274.2	284.8	314.6	342.2	365.6	369.8
137.5°	34.0	40.4	65.9	163.7	246.6	276.3	280.6	304.0	331.6	352.8	374.1
140°	31.9	38.3	48.9	138.2	231.7	257.2	282.7	295.5	321.0	344.3	363.5
142.5°	31.9	36.1	42.5	119.0	206.2	242.3	263.6	289.1	308.2	331.6	352.8
145°	29.8	34.0	40.4	85.0	167.9	212.6	248.7	291.2	299.7	318.8	340.1
147.5°	29.8	31.9	40.4	72.3	142.4	178.5	216.8	265.7	299.7	308.2	327.3
150°	27.6	31.9	38.3	46.8	114.8	148.8	178.5	255.1	282.7	304.0	314.6
152.5°	27.6	29.8	38.3	40.4	82.9	119.0	146.7	210.4	263.6	291.2	310.3
155°	27.6	29.8	36.1	40.4	61.6	85.0	116.9	163.7	223.2	269.9	291.2
157.5°	27.6	29.8	34.0	40.4	42.5	57.4	80.8	131.8	176.4	223.2	272.1
160°	27.6	27.6	34.0	38.3	40.4	42.5	53.1	87.1	136.0	167.9	210.4
162.5°	27.6	27.6	31.9	36.1	40.4	40.4	40.4	59.5	85.0	129.7	157.3
165°	27.6	27.6	29.8	34.0	38.3	38.3	40.4	40.4	48.9	76.5	99.9
167.5°	27.6	27.6	27.6	31.9	34.0	36.1	38.3	38.3	40.4	40.4	51.0
170°	25.5	27.6	27.6	29.8	31.9	31.9	34.0	36.1	38.3	38.3	40.4
172.5°	25.5	25.5	25.5	27.6	27.6	29.8	29.8	31.9	34.0	34.0	36.1
175°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	27.6	27.6	27.6	29.8
177.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
180°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4	5101.4
2.5°	5207.7	5218.3	5241.7	5254.4	5262.9	5265.0	5290.6	5282.0	5296.9	5296.9
5°	5467.0	5505.2	5549.9	5596.6	5613.6	5628.5	5649.8	5656.1	5673.2	5656.1
7.5°	5724.2	5766.7	5817.7	5864.5	5892.1	5913.3	5943.1	5958.0	5972.9	5968.6
10°	5907.0	5962.2	6028.1	6089.8	6117.4	6138.7	6172.7	6189.7	6204.5	6198.2
12.5°	6038.8	6113.1	6185.4	6255.6	6283.2	6304.4	6338.5	6359.7	6372.5	6391.6
15°	6134.4	6204.5	6289.6	6366.1	6393.7	6423.5	6457.5	6474.5	6485.1	6493.6
17.5°	6172.7	6264.1	6338.5	6408.6	6438.4	6468.1	6510.6	6527.6	6540.4	6551.0
20°	6159.9	6244.9	6327.8	6402.2	6434.1	6466.0	6500.0	6529.8	6538.3	6540.4
22.5°	6089.8	6187.5	6278.9	6355.5	6370.3	6398.0	6429.9	6461.7	6470.2	6472.4
25°	5983.5	6070.6	6155.7	6215.2	6236.4	6270.4	6300.2	6325.7	6330.0	6334.2
27.5°	5821.9	5904.8	5979.2	6053.6	6081.3	6104.6	6132.3	6149.3	6151.4	6159.9
30°	5613.6	5702.9	5775.2	5838.9	5853.8	5864.5	5894.2	5917.6	5911.2	5917.6
32.5°	5375.6	5460.6	5530.7	5569.0	5588.1	5611.5	5630.6	5641.3	5641.3	5630.6
35°	5112.0	5186.4	5243.8	5275.7	5290.6	5309.7	5324.6	5330.9	5335.2	5318.2
37.5°	4818.7	4893.1	4937.7	4971.7	4980.2	4997.2	4980.2	4999.3	4993.0	4984.5
40°	4525.3	4587.0	4616.7	4655.0	4640.1	4648.6	4638.0	4657.1	4633.7	4629.5
42.5°	4236.3	4268.2	4297.9	4295.8	4300.0	4293.7	4285.2	4270.3	4266.0	4255.4
45°	3947.2	3979.1	3972.7	3970.6	3972.7	3962.1	3945.1	3942.9	3925.9	3911.1
47.5°	3651.7	3660.2	3668.7	3658.1	3656.0	3643.2	3632.6	3605.0	3592.2	3581.6
50°	3386.0	3396.7	3390.3	3379.7	3360.5	3354.2	3330.8	3311.6	3301.0	3286.1
52.5°	3139.5	3148.0	3128.8	3114.0	3094.8	3080.0	3058.7	3041.7	3020.4	3020.4
55°	2922.7	2918.4	2888.7	2873.8	2854.6	2841.9	2814.3	2793.0	2784.5	2767.5
57.5°	2720.7	2708.0	2676.1	2652.7	2640.0	2623.0	2608.1	2588.9	2578.3	2571.9
60°	2537.9	2514.6	2493.3	2472.0	2465.7	2444.4	2435.9	2401.9	2395.5	2393.4
62.5°	2372.1	2361.5	2336.0	2295.6	2282.9	2276.5	2257.4	2242.5	2227.6	2231.9
65°	2240.4	2204.2	2170.2	2144.7	2129.8	2119.2	2106.4	2091.6	2083.1	2078.8
67.5°	2095.8	2061.8	2027.8	2002.3	1991.7	1983.2	1968.3	1955.5	1951.3	1949.2
70°	1955.5	1925.8	1900.3	1866.3	1853.5	1851.4	1834.4	1825.9	1819.5	1815.2
72.5°	1823.7	1789.7	1757.8	1734.5	1723.8	1717.5	1709.0	1702.6	1696.2	1687.7
75°	1689.8	1657.9	1630.3	1609.1	1604.8	1598.4	1587.8	1581.4	1579.3	1572.9
77.5°	1560.2	1534.7	1507.0	1498.5	1490.0	1485.8	1485.8	1477.3	1473.0	1473.0
80°	1441.1	1413.5	1392.3	1381.6	1379.5	1375.2	1373.1	1364.6	1360.4	1366.7
82.5°	1309.4	1283.8	1269.0	1254.1	1252.0	1247.7	1247.7	1241.3	1243.5	1239.2
85°	1171.2	1149.9	1135.1	1126.6	1122.3	1124.4	1124.4	1122.3	1122.3	1120.2
87.5°	1018.1	1005.4	992.6	986.3	988.4	992.6	988.4	986.3	986.3	990.5
90°	565.4	561.2	561.2	561.2	563.3	559.0	563.3	565.4	563.3	565.4
92.5°	531.4	527.1	529.3	531.4	535.6	531.4	535.6	535.6	533.5	535.6
95°	482.5	491.0	486.8	493.1	495.3	493.1	499.5	503.8	499.5	497.4
97.5°	416.6	425.1	435.7	444.2	452.7	452.7	454.9	459.1	459.1	463.4
100°	338.0	346.5	350.7	363.5	378.4	378.4	386.9	393.2	393.2	397.5
102.5°	321.0	321.0	318.8	316.7	316.7	314.6	314.6	318.8	318.8	325.2
105°	301.8	304.0	304.0	304.0	306.1	304.0	304.0	306.1	304.0	301.8
107.5°	276.3	287.0	291.2	293.3	293.3	293.3	295.5	297.6	297.6	297.6
110°	238.1	261.4	269.9	276.3	282.7	278.5	284.8	289.1	289.1	289.1





TEST NUMBER: P236390

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	184.9	218.9	240.2	252.9	259.3	261.4	267.8	274.2	274.2	274.2
115°	129.7	148.8	182.8	218.9	227.4	231.7	242.3	252.9	252.9	252.9
117.5°	127.5	121.2	133.9	146.7	150.9	165.8	201.9	214.7	221.1	216.8
120°	140.3	129.7	121.2	116.9	119.0	127.5	136.0	144.5	150.9	148.8
122.5°	161.5	142.4	131.8	125.4	125.4	121.2	121.2	119.0	116.9	114.8
125°	176.4	165.8	150.9	140.3	138.2	133.9	131.8	127.5	127.5	123.3
127.5°	193.4	180.7	172.2	165.8	159.4	155.2	150.9	144.5	140.3	136.0
130°	216.8	199.8	187.1	180.7	178.5	176.4	172.2	167.9	161.5	157.3
132.5°	252.9	227.4	210.4	201.9	197.7	193.4	187.1	184.9	180.7	176.4
135°	344.3	272.1	240.2	227.4	221.1	214.7	208.3	204.1	197.7	195.6
137.5°	374.1	352.8	308.2	267.8	252.9	246.6	235.9	229.6	223.2	221.1
140°	382.6	397.5	367.7	361.3	352.8	329.5	289.1	272.1	265.7	261.4
142.5°	367.7	386.9	399.6	408.1	382.6	380.5	372.0	365.6	365.6	355.0
145°	357.1	372.0	386.9	397.5	401.7	406.0	412.4	416.6	410.2	406.0
147.5°	342.2	359.2	367.7	382.6	384.7	389.0	395.4	397.5	399.6	397.5
150°	325.2	342.2	350.7	365.6	365.6	372.0	376.2	382.6	382.6	378.4
152.5°	312.5	325.2	335.8	346.5	350.7	352.8	357.1	361.3	361.3	361.3
155°	312.5	312.5	316.7	325.2	329.5	331.6	335.8	338.0	340.1	338.0
157.5°	280.6	301.8	316.7	316.7	314.6	314.6	316.7	321.0	323.1	321.0
160°	240.2	272.1	282.7	295.5	299.7	301.8	316.7	316.7	316.7	314.6
162.5°	180.7	210.4	233.8	257.2	261.4	272.1	278.5	276.3	282.7	272.1
165°	129.7	148.8	161.5	176.4	187.1	197.7	208.3	212.6	218.9	214.7
167.5°	70.1	82.9	104.2	119.0	125.4	129.7	138.2	142.4	150.9	144.5
170°	40.4	40.4	42.5	55.3	61.6	63.8	70.1	70.1	68.0	72.3
172.5°	36.1	38.3	38.3	38.3	38.3	38.3	36.1	36.1	34.0	31.9
175°	29.8	31.9	31.9	31.9	31.9	31.9	29.8	29.8	27.6	25.5
177.5°	25.5	25.5	25.5	25.5	23.4	23.4	23.4	21.3	19.1	17.0
180°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4

(END OF REPORT)