

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: P236389

Luminaire Tested: **SKB2-LD5-18-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236389  
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-L840-CD2-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (476) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

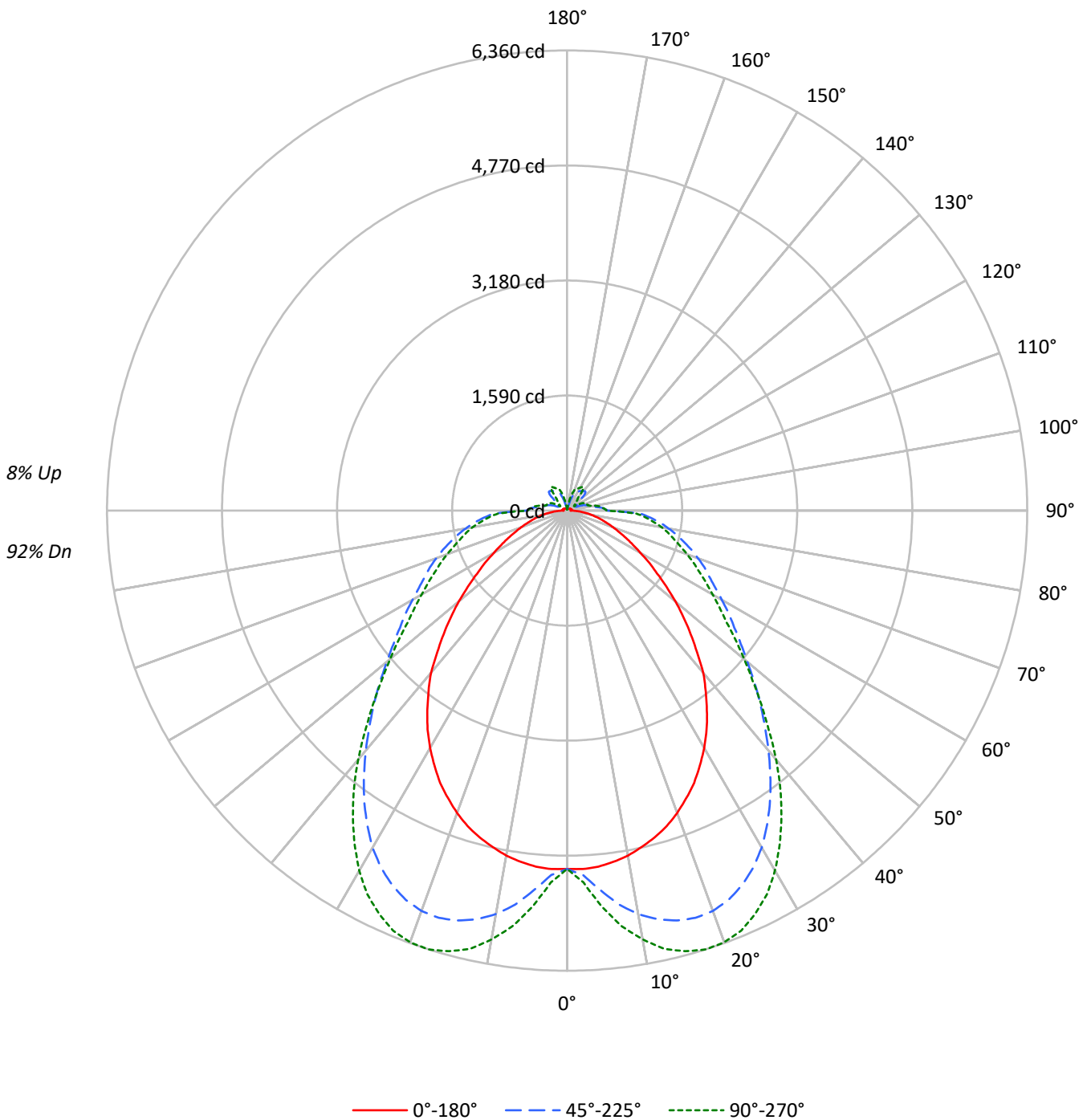
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18505.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 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°	21325	21325	21325
5°	21160	22387	23393
10°	20785	23949	25558
15°	20278	24867	26901
20°	19632	25219	27431
25°	18811	24921	27109
30°	17759	24075	26056
35°	16499	22668	24303
40°	15125	20955	22163
45°	13315	19289	19818
50°	11632	17726	17829
55°	9938	16628	16292
60°	8551	15960	15527
65°	7476	15664	15148
70°	6625	15864	15218
75°	5957	16177	15662
80°	5340	16924	16913
85°	4467	17967	18495



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	510.4	2.8
10°-20°	1612.9	8.7
20°-30°	2526.4	13.7
30°-40°	2906.2	15.7
40°-50°	2717.3	14.7
50°-60°	2287.1	12.4
60°-70°	1886.2	10.2
70°-80°	1515.3	8.2
80°-90°	1037.5	5.6
90°-100°	417.6	2.3
100°-110°	255.2	1.4
110°-120°	185.3	1.0
120°-130°	160.5	0.9
130°-140°	178.8	1.0
140°-150°	170.6	0.9
150°-160°	101.3	0.5
160°-170°	33.3	0.2
170°-180°	3.1	0.0
0°-30°	4649.8	25.1
0°-40°	7556.0	40.8
0°-60°	12560.3	67.9
0°-90°	16999.4	91.9
90°-120°	858.1	4.6
90°-150°	1368.0	7.4
90°-180°	1506.0	8.1
0°-180°	18505.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4953	4953	4953	4953	4953	
5°	4940	5050	5266	5450	5492	468
15°	4676	5304	5865	6208	6304	1317
25°	4152	5040	5714	6055	6150	1906
35°	3368	4286	4891	5136	5163	2103
45°	2414	3254	3774	3857	3797	1866
55°	1521	2384	2821	2772	2687	1375
65°	898	1802	2169	2068	2018	897
75°	497	1387	1668	1558	1527	529
85°	198	978	1160	1090	1088	192
90°	50	440	559	547	549	40
95°	62	301	468	481	483	49
105°	62	151	285	297	293	65
115°	52	239	128	221	246	53
125°	45	287	188	134	120	41
135°	35	266	359	215	190	28
145°	29	206	330	390	394	19
155°	27	82	283	320	328	12
165°	27	37	97	182	208	8
175°	25	25	29	31	25	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°	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8
2.5°	4959.0	4963.1	4973.5	4990.0	4992.0	4985.8	4977.6	4992.0	4985.8	5016.8	5041.6
5°	4940.4	4944.6	4967.3	5014.7	5031.3	5049.8	5056.0	5107.6	5148.9	5208.7	5266.5
7.5°	4897.1	4921.9	4959.0	5039.5	5107.6	5136.5	5167.5	5247.9	5330.5	5417.2	5491.5
10°	4841.4	4872.3	4948.7	5066.3	5171.6	5223.2	5268.6	5384.1	5474.9	5569.9	5662.7
12.5°	4763.0	4808.4	4911.6	5078.7	5219.0	5274.8	5332.5	5460.5	5569.9	5685.4	5784.5
15°	4676.3	4736.1	4872.3	5076.7	5231.4	5303.7	5365.6	5501.8	5627.7	5751.5	5865.0
17.5°	4573.1	4643.3	4818.7	5043.6	5214.9	5291.3	5359.4	5503.8	5642.1	5772.1	5902.1
20°	4447.2	4536.0	4746.5	4983.8	5159.2	5243.8	5314.0	5470.8	5619.4	5763.9	5887.7
22.5°	4302.8	4410.1	4639.2	4893.0	5076.7	5159.2	5233.5	5404.8	5563.7	5697.8	5825.8
25°	4152.1	4267.7	4517.4	4773.3	4963.1	5039.5	5122.1	5301.6	5450.2	5588.4	5714.3
27.5°	3972.6	4098.5	4372.9	4630.9	4814.6	4903.3	4983.8	5153.0	5305.7	5450.2	5567.8
30°	3786.9	3923.1	4203.7	4441.0	4633.0	4734.1	4806.3	4969.3	5130.3	5262.4	5377.9
32.5°	3588.7	3718.8	4003.5	4249.1	4430.7	4525.6	4595.8	4756.8	4905.4	5027.1	5144.8
35°	3367.9	3512.4	3791.0	4024.2	4201.7	4286.3	4356.4	4531.8	4661.9	4785.7	4890.9
37.5°	3147.1	3283.3	3549.5	3791.0	3964.3	4042.7	4106.7	4280.1	4401.8	4513.3	4612.3
40°	2926.3	3043.9	3308.1	3524.8	3704.3	3772.4	3848.8	3995.3	4127.4	4240.9	4327.5
42.5°	2656.0	2802.5	3064.6	3277.1	3438.1	3520.6	3592.9	3745.6	3857.0	3958.1	4042.7
45°	2414.5	2567.2	2808.7	3023.3	3188.4	3254.4	3326.7	3471.1	3597.0	3685.7	3774.5
47.5°	2179.2	2332.0	2573.4	2773.6	2938.7	3023.3	3081.1	3227.6	3343.2	3440.2	3506.2
50°	1952.2	2107.0	2338.1	2548.6	2705.5	2783.9	2858.2	2990.3	3118.2	3196.6	3250.3
52.5°	1729.4	1888.3	2135.9	2332.0	2497.1	2569.3	2637.4	2786.0	2903.6	2982.0	3025.4
55°	1520.9	1698.4	1941.9	2142.1	2303.1	2383.5	2455.8	2602.3	2701.4	2769.5	2821.0
57.5°	1347.6	1516.8	1762.4	1970.8	2135.9	2208.1	2286.6	2429.0	2523.9	2596.1	2645.6
60°	1172.2	1355.8	1609.7	1807.8	1979.1	2063.7	2135.9	2263.9	2369.1	2441.3	2468.2
62.5°	1027.7	1217.6	1465.2	1667.5	1849.1	1923.3	1997.6	2125.6	2230.8	2286.6	2307.2
65°	897.7	1091.7	1339.3	1541.6	1725.2	1801.6	1867.6	2005.9	2086.4	2144.2	2168.9
67.5°	778.0	978.2	1232.0	1434.3	1609.7	1679.8	1752.1	1882.1	1972.9	2030.7	2055.4
70°	676.9	879.1	1124.7	1341.4	1506.5	1582.8	1657.1	1778.9	1865.6	1923.3	1923.3
72.5°	579.9	786.3	1033.9	1242.3	1415.7	1490.0	1549.8	1684.0	1764.4	1803.7	1799.5
75°	497.3	699.6	953.4	1145.3	1320.8	1386.8	1465.2	1587.0	1653.0	1679.8	1667.5
77.5°	416.9	619.1	875.0	1071.0	1234.1	1322.8	1380.6	1479.7	1537.4	1562.2	1547.8
80°	342.6	540.7	788.3	982.3	1151.5	1215.5	1269.2	1364.1	1415.7	1436.3	1423.9
82.5°	270.3	468.5	709.9	899.8	1042.2	1095.8	1151.5	1242.3	1298.1	1316.6	1302.2
85°	198.1	390.0	623.2	790.4	922.5	978.2	1031.8	1112.3	1157.7	1178.4	1159.8
87.5°	134.1	315.7	524.2	674.8	792.5	842.0	891.5	961.7	1013.3	1025.6	1019.5
90°	49.5	148.6	272.4	344.6	410.7	439.6	462.3	511.8	546.9	563.4	559.3
92.5°	55.7	117.6	208.4	282.7	342.6	375.6	410.7	460.2	499.4	518.0	520.0
95°	61.9	103.2	146.5	216.7	278.6	301.3	326.1	379.7	425.1	458.1	468.5
97.5°	59.8	105.2	140.3	158.9	224.9	253.8	276.5	317.8	346.7	367.3	388.0
100°	61.9	109.4	156.8	150.6	165.1	200.2	231.1	278.6	309.6	328.1	332.3
102.5°	61.9	111.4	175.4	165.1	150.6	152.7	165.1	235.3	274.5	299.2	309.6
105°	61.9	111.4	179.5	181.6	158.9	150.6	146.5	169.2	229.1	266.2	284.8
107.5°	61.9	111.4	181.6	220.8	177.5	165.1	154.8	142.4	156.8	216.7	251.8
110°	59.8	107.3	183.7	233.2	194.0	181.6	173.3	148.6	136.2	152.7	202.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	55.7	92.9	181.6	235.3	229.1	202.2	189.9	165.1	142.4	130.0	142.4
115°	51.6	82.5	179.5	235.3	266.2	239.4	208.4	181.6	158.9	138.3	127.9
117.5°	51.6	78.4	183.7	233.2	276.5	284.8	251.8	198.1	175.4	154.8	136.2
120°	49.5	68.1	171.3	233.2	274.5	295.1	295.1	222.9	189.9	173.3	154.8
122.5°	47.5	55.7	171.3	233.2	272.4	293.0	309.6	295.1	212.6	187.8	171.3
125°	45.4	53.7	154.8	231.1	268.3	286.9	305.4	321.9	253.8	208.4	187.8
127.5°	43.3	51.6	132.1	231.1	264.2	282.7	299.2	328.1	313.7	243.5	208.4
130°	41.3	47.5	117.6	214.6	258.0	274.5	293.0	321.9	348.8	319.9	243.5
132.5°	39.2	45.4	94.9	204.3	255.9	268.3	282.7	313.7	340.5	355.0	324.0
135°	35.1	41.3	80.5	183.7	258.0	266.2	276.5	305.4	332.3	355.0	359.1
137.5°	33.0	39.2	64.0	158.9	239.4	268.3	272.4	295.1	321.9	342.6	363.2
140°	31.0	37.1	47.5	134.1	224.9	249.7	274.5	286.9	311.6	334.3	352.9
142.5°	31.0	35.1	41.3	115.6	200.2	235.3	255.9	280.7	299.2	321.9	342.6
145°	28.9	33.0	39.2	82.5	163.0	206.4	241.5	282.7	291.0	309.6	330.2
147.5°	28.9	31.0	39.2	70.2	138.3	173.3	210.5	258.0	291.0	299.2	317.8
150°	26.8	31.0	37.1	45.4	111.4	144.5	173.3	247.6	274.5	295.1	305.4
152.5°	26.8	28.9	37.1	39.2	80.5	115.6	142.4	204.3	255.9	282.7	301.3
155°	26.8	28.9	35.1	39.2	59.8	82.5	113.5	158.9	216.7	262.1	282.7
157.5°	26.8	28.9	33.0	39.2	41.3	55.7	78.4	127.9	171.3	216.7	264.2
160°	26.8	26.8	33.0	37.1	39.2	41.3	51.6	84.6	132.1	163.0	204.3
162.5°	26.8	26.8	31.0	35.1	39.2	39.2	39.2	57.8	82.5	125.9	152.7
165°	26.8	26.8	28.9	33.0	37.1	37.1	39.2	39.2	47.5	74.3	97.0
167.5°	26.8	26.8	26.8	31.0	33.0	35.1	37.1	37.1	39.2	39.2	49.5
170°	24.8	26.8	26.8	28.9	31.0	31.0	33.0	35.1	37.1	37.1	39.2
172.5°	24.8	24.8	24.8	26.8	26.8	28.9	28.9	31.0	33.0	33.0	35.1
175°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	26.8	26.8	26.8	28.9
177.5°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8	4952.8
2.5°	5056.0	5066.3	5089.0	5101.4	5109.7	5111.7	5136.5	5128.2	5142.7	5142.7
5°	5307.8	5344.9	5388.3	5433.7	5450.2	5464.6	5485.3	5491.5	5508.0	5491.5
7.5°	5557.5	5598.8	5648.3	5693.7	5720.5	5741.2	5770.0	5784.5	5798.9	5794.8
10°	5735.0	5788.6	5852.6	5912.4	5939.3	5959.9	5992.9	6009.4	6023.9	6017.7
12.5°	5862.9	5935.1	6005.3	6073.4	6100.2	6120.9	6153.9	6174.5	6186.9	6205.5
15°	5955.8	6023.9	6106.4	6180.7	6207.5	6236.4	6269.5	6286.0	6296.3	6304.5
17.5°	5992.9	6081.7	6153.9	6222.0	6250.9	6279.8	6321.0	6337.6	6349.9	6360.3
20°	5980.5	6063.1	6143.6	6215.8	6246.8	6277.7	6310.7	6339.6	6347.9	6349.9
22.5°	5912.4	6007.4	6096.1	6170.4	6184.8	6211.7	6242.6	6273.6	6281.8	6283.9
25°	5809.3	5893.9	5976.4	6034.2	6054.8	6087.9	6116.7	6141.5	6145.6	6149.8
27.5°	5652.4	5732.9	5805.1	5877.4	5904.2	5926.9	5953.7	5970.2	5972.3	5980.5
30°	5450.2	5536.9	5607.0	5668.9	5683.4	5693.7	5722.6	5745.3	5739.1	5745.3
32.5°	5219.0	5301.6	5369.7	5406.8	5425.4	5448.1	5466.7	5477.0	5477.0	5466.7
35°	4963.1	5035.4	5091.1	5122.1	5136.5	5155.1	5169.5	5175.7	5179.8	5163.3
37.5°	4678.4	4750.6	4793.9	4826.9	4835.2	4851.7	4835.2	4853.8	4847.6	4839.3
40°	4393.6	4453.4	4482.3	4519.5	4505.0	4513.3	4502.9	4521.5	4498.8	4494.7
42.5°	4112.9	4143.9	4172.8	4170.7	4174.8	4168.6	4160.4	4145.9	4141.8	4131.5
45°	3832.3	3863.2	3857.0	3855.0	3857.0	3846.7	3830.2	3828.1	3811.6	3797.2
47.5°	3545.4	3553.7	3561.9	3551.6	3549.5	3537.1	3526.8	3500.0	3487.6	3477.3
50°	3287.4	3297.8	3291.6	3281.3	3262.7	3256.5	3233.8	3215.2	3204.9	3190.4
52.5°	3048.1	3056.3	3037.7	3023.3	3004.7	2990.3	2969.6	2953.1	2932.5	2932.5
55°	2837.6	2833.4	2804.5	2790.1	2771.5	2759.1	2732.3	2711.7	2703.4	2686.9
57.5°	2641.5	2629.1	2598.2	2575.5	2563.1	2546.6	2532.1	2513.6	2503.2	2497.1
60°	2464.0	2441.3	2420.7	2400.1	2393.9	2373.2	2365.0	2332.0	2325.8	2323.7
62.5°	2303.1	2292.7	2268.0	2228.8	2216.4	2210.2	2191.6	2177.2	2162.7	2166.9
65°	2175.1	2140.0	2107.0	2082.3	2067.8	2057.5	2045.1	2030.7	2022.4	2018.3
67.5°	2034.8	2001.8	1968.8	1944.0	1933.7	1925.4	1911.0	1898.6	1894.5	1892.4
70°	1898.6	1869.7	1844.9	1811.9	1799.5	1797.5	1781.0	1772.7	1766.5	1762.4
72.5°	1770.6	1737.6	1706.7	1684.0	1673.6	1667.5	1659.2	1653.0	1646.8	1638.6
75°	1640.6	1609.7	1582.8	1562.2	1558.1	1551.9	1541.6	1535.4	1533.3	1527.1
77.5°	1514.7	1490.0	1463.1	1454.9	1446.6	1442.5	1442.5	1434.3	1430.1	1430.1
80°	1399.2	1372.3	1351.7	1341.4	1339.3	1335.2	1333.1	1324.9	1320.8	1326.9
82.5°	1271.2	1246.5	1232.0	1217.6	1215.5	1211.4	1211.4	1205.2	1207.3	1203.1
85°	1137.1	1116.5	1102.0	1093.8	1089.6	1091.7	1091.7	1089.6	1089.6	1087.6
87.5°	988.5	976.1	963.7	957.5	959.6	963.7	959.6	957.5	957.5	961.7
90°	548.9	544.8	544.8	544.8	546.9	542.7	546.9	548.9	546.9	548.9
92.5°	515.9	511.8	513.9	515.9	520.0	515.9	520.0	520.0	518.0	520.0
95°	468.5	476.7	472.6	478.8	480.8	478.8	485.0	489.1	485.0	482.9
97.5°	404.5	412.7	423.1	431.3	439.6	439.6	441.6	445.8	445.8	449.9
100°	328.1	336.4	340.5	352.9	367.3	367.3	375.6	381.8	381.8	385.9
102.5°	311.6	311.6	309.6	307.5	307.5	305.4	305.4	309.6	309.6	315.7
105°	293.0	295.1	295.1	295.1	297.2	295.1	295.1	297.2	295.1	293.0
107.5°	268.3	278.6	282.7	284.8	284.8	284.8	286.9	288.9	288.9	288.9
110°	231.1	253.8	262.1	268.3	274.5	270.3	276.5	280.7	280.7	280.7





TEST NUMBER: P236389

CATALOG NUMBER: SKB2-LD5-18-W-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	179.5	212.6	233.2	245.6	251.8	253.8	260.0	266.2	266.2	266.2
115°	125.9	144.5	177.5	212.6	220.8	224.9	235.3	245.6	245.6	245.6
117.5°	123.8	117.6	130.0	142.4	146.5	161.0	196.0	208.4	214.6	210.5
120°	136.2	125.9	117.6	113.5	115.6	123.8	132.1	140.3	146.5	144.5
122.5°	156.8	138.3	127.9	121.8	121.8	117.6	117.6	115.6	113.5	111.4
125°	171.3	161.0	146.5	136.2	134.1	130.0	127.9	123.8	123.8	119.7
127.5°	187.8	175.4	167.2	161.0	154.8	150.6	146.5	140.3	136.2	132.1
130°	210.5	194.0	181.6	175.4	173.3	171.3	167.2	163.0	156.8	152.7
132.5°	245.6	220.8	204.3	196.0	191.9	187.8	181.6	179.5	175.4	171.3
135°	334.3	264.2	233.2	220.8	214.6	208.4	202.2	198.1	191.9	189.9
137.5°	363.2	342.6	299.2	260.0	245.6	239.4	229.1	222.9	216.7	214.6
140°	371.5	385.9	357.0	350.8	342.6	319.9	280.7	264.2	258.0	253.8
142.5°	357.0	375.6	388.0	396.2	371.5	369.4	361.1	355.0	355.0	344.6
145°	346.7	361.1	375.6	385.9	390.0	394.2	400.4	404.5	398.3	394.2
147.5°	332.3	348.8	357.0	371.5	373.5	377.7	383.8	385.9	388.0	385.9
150°	315.7	332.3	340.5	355.0	355.0	361.1	365.3	371.5	371.5	367.3
152.5°	303.4	315.7	326.1	336.4	340.5	342.6	346.7	350.8	350.8	350.8
155°	303.4	303.4	307.5	315.7	319.9	321.9	326.1	328.1	330.2	328.1
157.5°	272.4	293.0	307.5	307.5	305.4	305.4	307.5	311.6	313.7	311.6
160°	233.2	264.2	274.5	286.9	291.0	293.0	307.5	307.5	307.5	305.4
162.5°	175.4	204.3	227.0	249.7	253.8	264.2	270.3	268.3	274.5	264.2
165°	125.9	144.5	156.8	171.3	181.6	191.9	202.2	206.4	212.6	208.4
167.5°	68.1	80.5	101.1	115.6	121.8	125.9	134.1	138.3	146.5	140.3
170°	39.2	39.2	41.3	53.7	59.8	61.9	68.1	68.1	66.0	70.2
172.5°	35.1	37.1	37.1	37.1	37.1	37.1	35.1	35.1	33.0	31.0
175°	28.9	31.0	31.0	31.0	31.0	31.0	28.9	28.9	26.8	24.8
177.5°	24.8	24.8	24.8	24.8	22.7	22.7	22.7	20.6	18.6	16.5
180°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7

(END OF REPORT)