

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: P236370

Luminaire Tested: **SKB2-LD5-12-N-UNV-L835-CD2-U**

Issue Date: 3/3/2020



**Test Information**

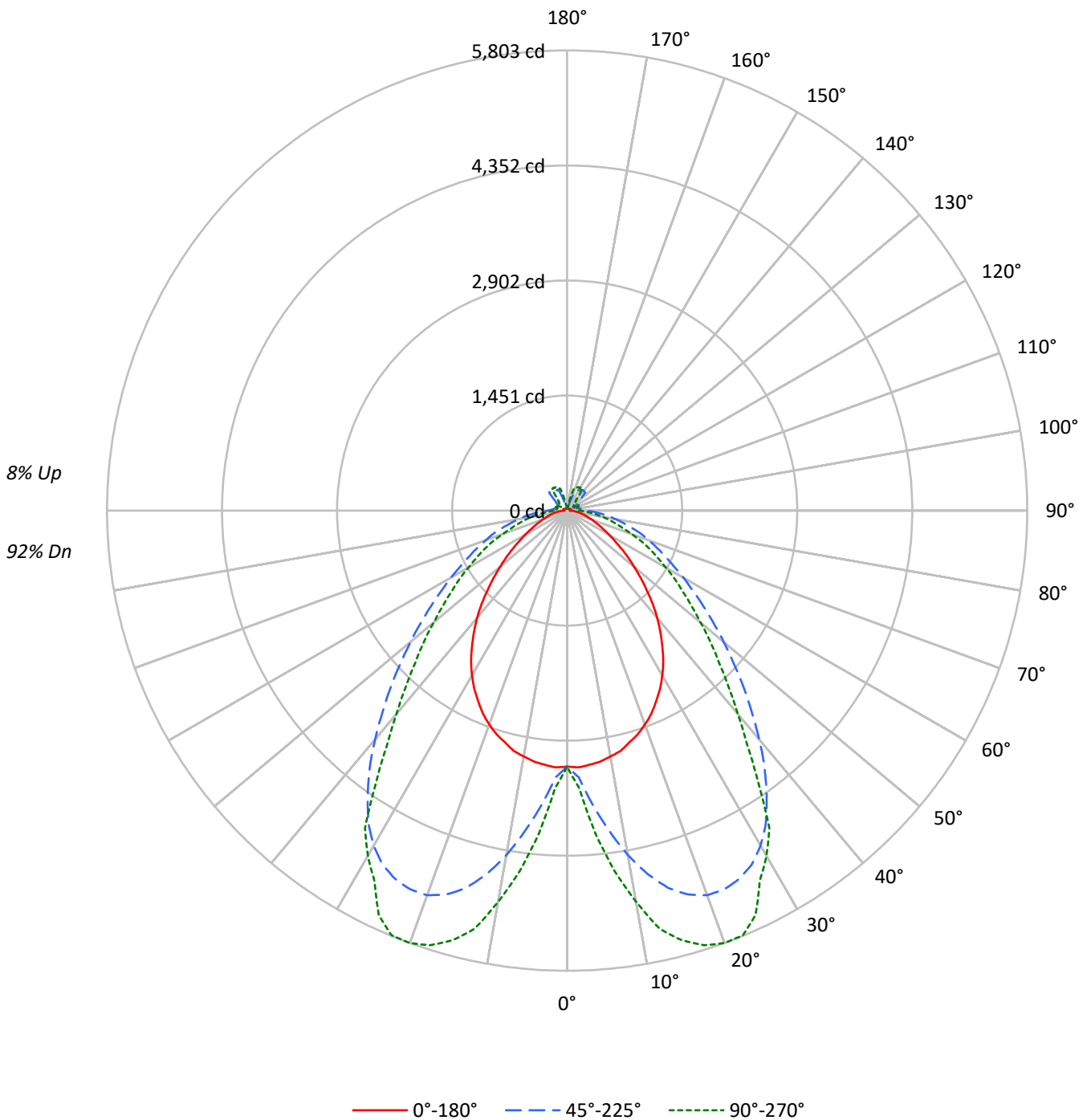
Test Method: LM-79-08  
Report Number: P236370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB2-LD5-12-N-UNV-L835-CD2-U  
Description: 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: 13399.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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): 104.9  
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°	13898	13898	13898
5°	13783	15857	17402
10°	13519	18655	21279
15°	13125	20891	23951
20°	12672	22106	25070
25°	12020	22366	24786
30°	11251	21845	22802
35°	10262	20324	19809
40°	9135	18255	16519
45°	7828	16085	14124
50°	6597	14069	12276
55°	5450	12332	10815
60°	4459	10963	9604
65°	3711	9830	8646
70°	3178	8987	7437
75°	2783	8184	6521
80°	2477	7363	5749
85°	2145	6482	4758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.7	2.8
10°-20°	1319.6	9.8
20°-30°	2163.1	16.1
30°-40°	2417.2	18.0
40°-50°	2105.9	15.7
50°-60°	1620.8	12.1
60°-70°	1162.9	8.7
70°-80°	767.9	5.7
80°-90°	415.1	3.1
90°-100°	183.8	1.4
100°-110°	146.5	1.1
110°-120°	146.9	1.1
120°-130°	142.0	1.1
130°-140°	153.9	1.1
140°-150°	152.8	1.1
150°-160°	97.0	0.7
160°-170°	30.7	0.2
170°-180°	3.1	0.0
0°-30°	3852.4	28.8
0°-40°	6269.7	46.8
0°-60°	9996.4	74.6
0°-90°	12342.4	92.1
90°-120°	477.2	3.6
90°-150°	925.8	6.9
90°-180°	1057.0	7.9
0°-180°	13399.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3228	3228	3228	3228	3228	
5°	3218	3399	3730	3974	4085	305
15°	3027	3960	4927	5482	5613	853
25°	2653	4084	5128	5579	5623	1220
35°	2095	3577	4385	4335	4209	1305
45°	1420	2678	3148	2895	2706	1099
55°	834	1819	2092	1909	1784	752
65°	446	1214	1361	1248	1152	449
75°	232	842	844	721	636	249
85°	95	546	418	327	280	90
90°	35	326	239	179	154	24
95°	48	226	181	147	133	39
105°	52	137	151	134	129	54
115°	45	242	102	152	159	46
125°	39	287	159	109	96	35
135°	31	260	322	166	144	24
145°	27	198	319	332	329	17
155°	26	56	289	315	326	12
165°	26	37	69	168	206	7
175°	26	27	31	34	28	2
180°	24	24	24	24	24	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8
2.5°	3241.3	3234.6	3249.5	3263.1	3264.4	3273.9	3272.6	3290.2	3312.0	3339.2	3366.3
5°	3218.2	3222.3	3257.6	3312.0	3358.2	3398.9	3420.7	3495.4	3557.9	3644.8	3730.4
7.5°	3193.8	3204.7	3280.7	3385.3	3491.3	3551.1	3605.4	3734.5	3848.6	3969.5	4074.1
10°	3149.0	3174.8	3303.8	3473.6	3639.4	3723.6	3801.0	3958.6	4123.0	4275.2	4411.0
12.5°	3105.5	3147.6	3322.9	3542.9	3750.8	3856.7	3958.6	4161.0	4347.2	4541.4	4694.9
15°	3026.7	3100.1	3333.7	3601.3	3851.3	3960.0	4087.7	4321.3	4541.4	4742.5	4927.2
17.5°	2958.8	3053.9	3328.3	3631.2	3923.3	4051.0	4178.7	4428.7	4670.5	4900.1	5076.7
20°	2870.5	2991.4	3312.0	3644.8	3951.8	4099.9	4238.5	4507.5	4761.5	4980.2	5160.9
22.5°	2774.0	2915.3	3271.2	3623.1	3949.1	4102.6	4253.4	4525.1	4777.8	4996.5	5170.4
25°	2653.1	2827.0	3199.2	3574.2	3912.4	4083.6	4220.8	4491.1	4742.5	4951.7	5128.3
27.5°	2534.9	2723.8	3117.7	3500.8	3845.9	4007.5	4143.4	4428.7	4671.8	4868.8	5037.3
30°	2399.1	2604.2	3011.8	3394.9	3739.9	3898.9	4044.2	4309.1	4541.4	4735.7	4879.7
32.5°	2256.4	2467.0	2882.7	3257.6	3593.2	3763.0	3894.8	4154.2	4381.1	4540.1	4666.4
35°	2094.8	2324.4	2721.0	3100.1	3422.0	3576.9	3710.0	3953.2	4166.5	4310.5	4385.2
37.5°	1927.7	2165.4	2558.0	2909.9	3231.8	3362.2	3491.3	3737.2	3912.4	4038.8	4091.8
40°	1767.4	1990.2	2363.8	2721.0	3014.5	3146.3	3260.4	3483.2	3654.3	3741.3	3769.8
42.5°	1597.6	1821.7	2173.6	2506.4	2789.0	2915.3	3029.4	3225.0	3374.5	3451.9	3445.1
45°	1419.6	1645.1	1971.2	2297.2	2566.2	2677.6	2790.3	2958.8	3094.6	3147.6	3147.6
47.5°	1258.0	1463.1	1790.5	2079.8	2338.0	2449.3	2552.6	2710.2	2821.6	2859.6	2846.0
50°	1107.2	1298.7	1600.3	1872.0	2123.3	2233.3	2320.3	2475.2	2571.6	2589.3	2579.8
52.5°	965.9	1142.5	1426.4	1692.7	1922.3	2018.7	2108.4	2246.9	2325.7	2343.4	2325.7
55°	834.1	1001.2	1264.7	1517.4	1733.4	1819.0	1910.0	2028.2	2090.7	2096.1	2092.1
57.5°	713.2	876.2	1123.5	1359.8	1558.2	1646.5	1719.8	1829.9	1869.3	1884.2	1877.4
60°	611.3	766.2	994.4	1221.3	1406.0	1486.2	1554.1	1630.2	1677.7	1681.8	1695.4
62.5°	521.7	669.7	888.4	1094.9	1274.3	1342.2	1402.0	1471.2	1505.2	1510.6	1510.6
65°	445.6	585.5	796.1	984.9	1150.6	1214.5	1262.0	1325.9	1347.6	1347.6	1361.2
67.5°	380.4	516.2	713.2	899.3	1048.8	1097.7	1146.6	1191.4	1199.5	1215.8	1225.4
70°	324.7	457.8	642.6	823.2	952.3	1005.3	1042.0	1067.8	1085.4	1085.4	1089.5
72.5°	274.4	403.5	581.4	755.3	878.9	917.0	942.8	971.3	978.1	976.8	979.5
75°	232.3	358.6	533.9	687.4	805.6	842.3	862.6	881.7	877.6	869.4	843.6
77.5°	195.6	317.9	491.8	639.8	739.0	777.1	792.0	798.8	777.1	749.9	725.4
80°	158.9	279.8	445.6	585.5	679.2	709.1	717.3	692.8	668.4	646.6	619.5
82.5°	125.0	244.5	406.2	538.0	615.4	624.9	627.6	601.8	580.1	552.9	525.7
85°	95.1	210.6	361.4	474.1	533.9	546.1	542.0	512.1	479.5	449.7	418.4
87.5°	63.8	172.5	307.0	400.8	445.6	446.9	437.4	410.3	384.5	354.6	322.0
90°	35.3	120.9	226.9	292.1	328.8	326.0	328.8	307.0	286.6	263.5	239.1
92.5°	40.8	92.4	164.4	230.9	270.3	274.4	277.1	262.2	244.5	226.9	203.8
95°	47.5	81.5	115.5	173.9	214.6	225.5	228.2	224.1	214.6	201.1	180.7
97.5°	48.9	84.2	119.5	122.3	173.9	187.5	195.6	194.3	186.1	175.2	165.7
100°	50.3	91.0	137.2	131.8	125.0	146.7	161.7	173.9	172.5	164.4	152.2
102.5°	51.6	95.1	158.9	152.2	130.4	116.8	120.9	152.2	160.3	157.6	150.8
105°	51.6	97.8	164.4	178.0	150.8	137.2	122.3	120.9	142.6	152.2	150.8
107.5°	51.6	95.1	168.5	207.8	176.6	158.9	144.0	114.1	106.0	138.6	146.7
110°	50.3	91.0	172.5	230.9	199.7	183.4	165.7	131.8	108.7	95.1	137.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	47.5	78.8	172.5	229.6	233.7	206.5	187.5	152.2	122.3	104.6	91.0
115°	44.8	67.9	169.8	229.6	275.8	241.8	207.8	173.9	141.3	118.2	101.9
117.5°	44.8	61.1	169.8	230.9	275.8	292.1	248.6	194.3	158.9	134.5	112.8
120°	43.5	55.7	165.7	230.9	275.8	292.1	305.7	220.1	178.0	150.8	130.4
122.5°	40.8	50.3	154.9	226.9	273.1	289.4	301.6	267.6	201.1	168.5	144.0
125°	39.4	44.8	129.1	222.8	269.0	286.6	300.2	317.9	232.3	184.8	158.9
127.5°	38.0	42.1	107.3	224.1	263.5	281.2	296.1	315.2	307.0	211.9	178.0
130°	35.3	40.8	86.9	218.7	256.8	274.4	290.7	309.7	320.6	278.5	203.8
132.5°	32.6	38.0	69.3	194.3	250.0	267.6	282.6	305.7	317.9	323.3	255.4
135°	31.2	35.3	53.0	163.0	247.2	259.5	274.4	301.6	316.5	323.3	322.0
137.5°	29.9	35.3	47.5	129.1	247.2	256.8	266.3	292.1	311.1	322.0	322.0
140°	28.5	34.0	39.4	99.2	225.5	258.1	262.2	285.3	305.7	319.2	326.0
142.5°	28.5	32.6	38.0	77.4	182.0	240.5	262.2	275.8	297.5	315.2	324.7
145°	27.2	31.2	36.7	57.1	138.6	198.3	251.3	270.3	288.0	305.7	319.2
147.5°	27.2	29.9	35.3	46.2	104.6	152.2	206.5	274.4	279.8	296.1	309.7
150°	25.8	29.9	35.3	38.0	77.4	108.7	154.9	250.0	281.2	285.3	300.2
152.5°	25.8	28.5	35.3	38.0	55.7	78.8	110.0	188.8	263.5	286.6	289.4
155°	25.8	28.5	34.0	36.7	43.5	55.7	74.7	134.5	207.8	275.8	289.4
157.5°	25.8	28.5	32.6	36.7	38.0	42.1	53.0	88.3	146.7	209.2	266.3
160°	25.8	27.2	32.6	35.3	38.0	38.0	39.4	61.1	91.0	138.6	186.1
162.5°	25.8	27.2	29.9	34.0	36.7	38.0	38.0	40.8	58.4	84.2	118.2
165°	25.8	27.2	29.9	32.6	35.3	36.7	38.0	39.4	39.4	48.9	69.3
167.5°	25.8	25.8	28.5	31.2	34.0	35.3	35.3	38.0	38.0	39.4	40.8
170°	25.8	25.8	27.2	29.9	31.2	32.6	34.0	35.3	36.7	38.0	38.0
172.5°	25.8	25.8	27.2	27.2	28.5	29.9	29.9	31.2	34.0	34.0	35.3
175°	25.8	25.8	25.8	25.8	27.2	27.2	27.2	28.5	28.5	29.9	31.2
177.5°	24.5	24.5	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	27.2
180°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8	3227.8
2.5°	3412.5	3409.8	3435.6	3472.3	3465.5	3480.4	3500.8	3522.6	3525.3	3506.2
5°	3790.2	3833.6	3898.9	3946.4	3973.6	3985.8	4022.5	4044.2	4033.3	4085.0
7.5°	4201.8	4267.0	4349.9	4427.3	4458.5	4468.1	4503.4	4564.5	4559.1	4583.5
10°	4550.9	4646.0	4752.0	4852.5	4881.0	4912.3	4966.6	5006.0	5021.0	5010.1
12.5°	4856.6	4982.9	5083.4	5169.0	5224.7	5279.1	5326.6	5363.3	5395.9	5404.1
15°	5093.0	5217.9	5334.8	5444.8	5481.5	5511.4	5572.5	5605.1	5607.8	5613.3
17.5°	5243.8	5355.1	5469.3	5563.0	5606.5	5635.0	5683.9	5724.7	5736.9	5747.7
20°	5317.1	5419.0	5529.0	5616.0	5660.8	5688.0	5738.2	5765.4	5785.8	5803.4
22.5°	5321.2	5427.1	5535.8	5620.1	5659.4	5690.7	5738.2	5769.5	5785.8	5795.3
25°	5264.1	5372.8	5481.5	5541.3	5579.3	5607.8	5618.7	5614.6	5611.9	5622.8
27.5°	5159.5	5249.2	5315.7	5340.2	5329.3	5332.1	5307.6	5279.1	5268.2	5262.8
30°	4974.8	5037.3	5040.0	5037.3	5022.3	5030.5	5010.1	5001.9	5021.0	5027.8
32.5°	4720.7	4742.5	4756.1	4723.5	4723.5	4722.1	4730.2	4709.9	4720.7	4745.2
35°	4430.0	4400.1	4398.8	4351.2	4334.9	4326.8	4280.6	4243.9	4219.5	4208.6
37.5°	4086.3	4046.9	4034.7	3974.9	3951.8	3928.7	3856.7	3790.2	3753.5	3733.1
40°	3753.5	3710.0	3682.9	3609.5	3574.2	3548.4	3485.9	3408.4	3393.5	3350.0
42.5°	3420.7	3400.3	3326.9	3276.7	3219.6	3181.6	3120.4	3068.8	3026.7	3007.7
45°	3129.9	3079.7	3015.8	2934.3	2894.9	2856.9	2791.7	2746.9	2725.1	2706.1
47.5°	2828.4	2779.5	2725.1	2647.7	2616.4	2583.8	2528.1	2482.0	2460.2	2450.7
50°	2559.4	2513.2	2458.9	2367.8	2348.8	2314.9	2264.6	2232.0	2206.2	2196.7
52.5°	2301.3	2266.0	2206.2	2139.6	2122.0	2083.9	2045.9	2005.1	1991.5	1975.2
55°	2075.8	2032.3	1988.8	1935.8	1908.7	1885.6	1844.8	1806.8	1800.0	1783.7
57.5°	1874.7	1831.2	1782.3	1734.8	1722.6	1702.2	1658.7	1635.6	1611.2	1609.8
60°	1670.9	1647.8	1613.9	1571.8	1559.5	1535.1	1494.3	1463.1	1441.4	1437.3
62.5°	1501.1	1482.1	1448.1	1410.1	1395.2	1376.1	1342.2	1306.9	1293.3	1285.1
65°	1354.4	1331.3	1300.1	1270.2	1248.4	1244.4	1205.0	1173.7	1156.1	1152.0
67.5°	1207.7	1199.5	1173.7	1145.2	1127.5	1105.8	1073.2	1039.2	1021.6	1010.7
70°	1085.4	1070.5	1037.9	994.4	975.4	963.2	915.6	887.1	870.8	861.3
72.5°	957.7	931.9	892.5	855.8	836.8	820.5	789.3	762.1	749.9	739.0
75°	820.5	798.8	767.5	740.4	721.4	709.1	683.3	656.1	642.6	635.8
77.5°	707.8	683.3	667.0	639.8	620.8	605.9	582.8	558.3	551.5	543.4
80°	600.5	581.4	563.8	536.6	518.9	506.7	483.6	461.9	449.7	451.0
82.5°	494.5	475.5	452.4	429.3	418.4	404.8	387.2	372.2	368.1	360.0
85°	392.6	374.9	357.3	336.9	327.4	319.2	301.6	290.7	282.6	279.8
87.5°	302.9	285.3	269.0	252.7	247.2	239.1	225.5	221.4	214.6	207.8
90°	218.7	206.5	194.3	184.8	179.3	173.9	167.1	163.0	156.2	153.5
92.5°	187.5	173.9	165.7	157.6	156.2	152.2	146.7	142.6	138.6	135.8
95°	167.1	158.9	153.5	148.1	146.7	144.0	139.9	138.6	135.8	133.1
97.5°	156.2	149.4	145.4	142.6	142.6	141.3	139.9	137.2	135.8	134.5
100°	144.0	135.8	135.8	137.2	137.2	137.2	137.2	137.2	135.8	134.5
102.5°	142.6	135.8	134.5	131.8	131.8	129.1	129.1	127.7	126.3	125.0
105°	145.4	141.3	137.2	135.8	134.5	134.5	131.8	130.4	129.1	129.1
107.5°	148.1	146.7	145.4	142.6	142.6	142.6	139.9	139.9	138.6	135.8
110°	145.4	148.1	149.4	149.4	149.4	149.4	149.4	149.4	146.7	146.7





TEST NUMBER: P236370

CATALOG NUMBER: SKB2-LD5-12-N-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	135.8	144.0	149.4	154.9	154.9	156.2	156.2	156.2	156.2	154.9
115°	92.4	96.5	144.0	150.8	152.2	154.9	157.6	160.3	160.3	158.9
117.5°	103.2	93.7	88.3	85.6	118.2	137.2	154.9	160.3	158.9	158.9
120°	114.1	103.2	96.5	91.0	91.0	88.3	86.9	86.9	86.9	92.4
122.5°	129.1	115.5	104.6	99.2	97.8	96.5	95.1	92.4	91.0	89.7
125°	142.6	130.4	119.5	110.0	108.7	106.0	103.2	100.5	99.2	96.5
127.5°	156.2	142.6	133.1	126.3	123.6	122.3	114.1	111.4	107.3	107.3
130°	175.2	157.6	145.4	138.6	134.5	133.1	129.1	126.3	123.6	122.3
132.5°	199.7	176.6	163.0	153.5	149.4	146.7	141.3	137.2	133.1	133.1
135°	260.8	206.5	183.4	171.2	165.7	163.0	156.2	150.8	145.4	144.0
137.5°	320.6	294.8	221.4	197.0	190.2	183.4	173.9	167.1	161.7	161.7
140°	324.7	323.3	323.3	264.9	240.5	225.5	202.4	191.5	186.1	180.7
142.5°	327.4	328.8	324.7	327.4	328.8	327.4	315.2	277.1	252.7	251.3
145°	326.0	330.1	330.1	330.1	331.5	331.5	330.1	331.5	327.4	328.8
147.5°	322.0	327.4	331.5	335.5	332.8	335.5	336.9	336.9	335.5	335.5
150°	311.1	322.0	328.8	332.8	331.5	332.8	332.8	334.2	330.1	330.1
152.5°	300.2	311.1	319.2	327.4	327.4	330.1	330.1	330.1	328.8	328.8
155°	288.0	296.1	305.7	313.8	315.2	317.9	322.0	323.3	326.0	326.0
157.5°	289.4	289.4	292.1	297.5	298.9	301.6	304.3	307.0	308.4	309.7
160°	235.0	277.1	290.7	297.5	294.8	292.1	290.7	293.4	290.7	293.4
162.5°	158.9	184.8	222.8	254.0	269.0	279.8	283.9	288.0	289.4	292.1
165°	86.9	108.7	134.5	164.4	168.5	175.2	187.5	195.6	209.2	206.5
167.5°	44.8	59.8	69.3	77.4	82.9	86.9	103.2	107.3	104.6	111.4
170°	39.4	39.4	40.8	40.8	42.1	43.5	44.8	53.0	48.9	46.2
172.5°	36.7	36.7	38.0	38.0	39.4	39.4	38.0	36.7	35.3	34.0
175°	31.2	32.6	34.0	34.0	34.0	35.3	34.0	32.6	31.2	28.5
177.5°	27.2	27.2	27.2	28.5	28.5	28.5	27.2	25.8	24.5	23.1
180°	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5

(END OF REPORT)