

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: P236383

Luminaire Tested: **SKB2-LD5-12-W-UNV-L840-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236383  
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-LD5-12-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**

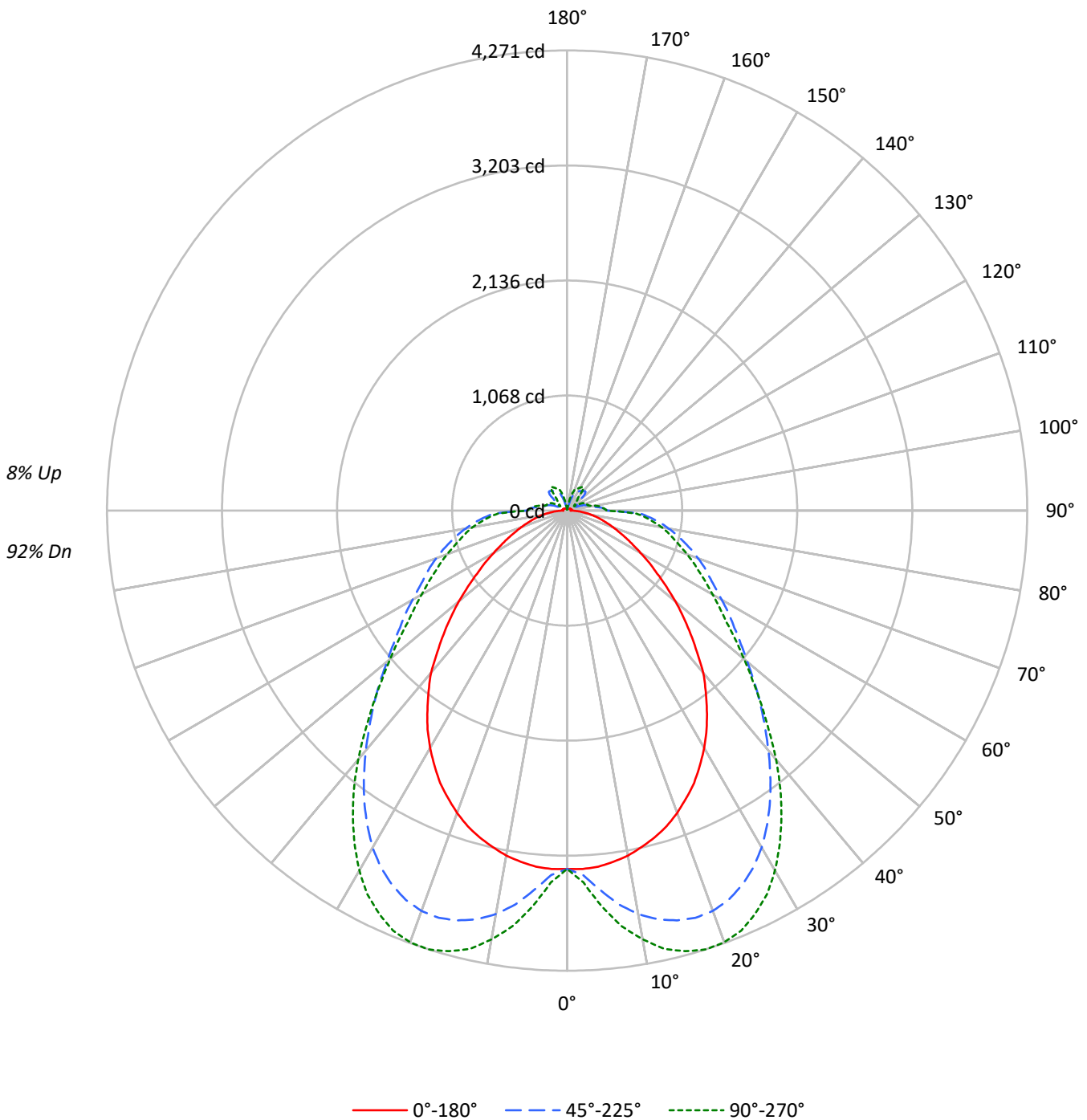
Lumens per Lamp: N/A  
Luminaire Lumens: 12426.0 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.46  
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')  
CIE Type: Direct

Input Watts (W): 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	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°	14319	14319	14319
5°	14209	15032	15708
10°	13957	16081	17162
15°	13617	16698	18064
20°	13183	16934	18419
25°	12632	16734	18203
30°	11925	16167	17496
35°	11079	15221	16319
40°	10157	14071	14883
45°	8941	12952	13308
50°	7811	11903	11972
55°	6674	11166	10939
60°	5742	10717	10427
65°	5020	10518	10172
70°	4448	10653	10218
75°	4001	10863	10518
80°	3585	11365	11357
85°	2999	12065	12419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.7	2.8
10°-20°	1083.1	8.7
20°-30°	1696.5	13.7
30°-40°	1951.5	15.7
40°-50°	1824.6	14.7
50°-60°	1535.8	12.4
60°-70°	1266.6	10.2
70°-80°	1017.5	8.2
80°-90°	696.7	5.6
90°-100°	280.4	2.3
100°-110°	171.4	1.4
110°-120°	124.4	1.0
120°-130°	107.8	0.9
130°-140°	120.0	1.0
140°-150°	114.5	0.9
150°-160°	68.0	0.5
160°-170°	22.3	0.2
170°-180°	2.1	0.0
0°-30°	3122.3	25.1
0°-40°	5073.8	40.8
0°-60°	8434.2	67.9
0°-90°	11415.0	91.9
90°-120°	576.2	4.6
90°-150°	918.6	7.4
90°-180°	1011.0	8.1
0°-180°	12426.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3326	3326	3326	3326	3326	
5°	3318	3391	3536	3660	3688	314
15°	3140	3561	3938	4168	4234	884
25°	2788	3384	3837	4066	4130	1280
35°	2262	2878	3284	3449	3467	1412
45°	1621	2185	2534	2590	2550	1253
55°	1021	1600	1894	1861	1804	923
65°	603	1210	1456	1388	1355	602
75°	334	931	1120	1046	1026	355
85°	133	657	779	732	730	129
90°	33	295	376	367	369	27
95°	42	202	315	323	324	33
105°	42	101	191	200	197	44
115°	35	161	86	148	165	36
125°	30	193	126	90	80	27
135°	24	179	241	144	128	19
145°	19	139	222	262	265	12
155°	18	55	190	215	220	8
165°	18	25	65	122	140	5
175°	17	17	19	21	17	2
180°	15	15	15	15	15	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8
2.5°	3330.0	3332.7	3339.7	3350.7	3352.1	3348.0	3342.4	3352.1	3348.0	3368.8	3385.4
5°	3317.5	3320.3	3335.5	3367.4	3378.5	3390.9	3395.1	3429.7	3457.4	3497.6	3536.4
7.5°	3288.4	3305.0	3330.0	3384.0	3429.7	3449.1	3469.9	3524.0	3579.4	3637.6	3687.5
10°	3251.0	3271.8	3323.0	3402.0	3472.7	3507.3	3537.8	3615.4	3676.4	3740.1	3802.5
12.5°	3198.3	3228.8	3298.1	3410.3	3504.6	3542.0	3580.8	3666.7	3740.1	3817.7	3884.3
15°	3140.1	3180.3	3271.8	3408.9	3512.9	3561.4	3602.9	3694.4	3778.9	3862.1	3938.3
17.5°	3070.8	3117.9	3235.7	3386.8	3501.8	3553.1	3598.8	3695.8	3788.6	3875.9	3963.2
20°	2986.3	3045.9	3187.2	3346.6	3464.4	3521.2	3568.3	3673.6	3773.4	3870.4	3953.5
22.5°	2889.3	2961.3	3115.2	3285.6	3408.9	3464.4	3514.3	3629.3	3736.0	3826.1	3912.0
25°	2788.1	2865.7	3033.4	3205.2	3332.7	3384.0	3439.4	3560.0	3659.8	3752.6	3837.1
27.5°	2667.6	2752.1	2936.4	3109.6	3233.0	3292.5	3346.6	3460.2	3562.8	3659.8	3738.7
30°	2542.8	2634.3	2822.8	2982.1	3111.0	3178.9	3227.4	3336.9	3445.0	3533.7	3611.3
32.5°	2409.8	2497.1	2688.4	2853.3	2975.2	3038.9	3086.1	3194.2	3293.9	3375.7	3454.7
35°	2261.5	2358.5	2545.6	2702.2	2821.4	2878.2	2925.3	3043.1	3130.4	3213.6	3284.2
37.5°	2113.3	2204.7	2383.5	2545.6	2662.0	2714.7	2757.6	2874.0	2955.8	3030.6	3097.1
40°	1965.0	2044.0	2221.4	2366.9	2487.4	2533.1	2584.4	2682.8	2771.5	2847.7	2905.9
42.5°	1783.5	1881.8	2057.8	2200.6	2308.7	2364.1	2412.6	2515.1	2590.0	2657.9	2714.7
45°	1621.3	1723.9	1886.0	2030.1	2141.0	2185.3	2233.8	2330.8	2415.4	2474.9	2534.5
47.5°	1463.4	1565.9	1728.0	1862.4	1973.3	2030.1	2068.9	2167.3	2244.9	2310.0	2354.4
50°	1310.9	1414.8	1570.1	1711.4	1816.7	1869.4	1919.3	2007.9	2093.9	2146.5	2182.6
52.5°	1161.3	1268.0	1434.2	1565.9	1676.8	1725.3	1771.0	1870.8	1949.7	2002.4	2031.5
55°	1021.3	1140.5	1304.0	1438.4	1546.5	1600.5	1649.0	1747.4	1813.9	1859.7	1894.3
57.5°	904.9	1018.5	1183.4	1323.4	1434.2	1482.8	1535.4	1631.0	1694.8	1743.3	1776.5
60°	787.1	910.4	1080.9	1213.9	1328.9	1385.7	1434.2	1520.2	1590.8	1639.3	1657.4
62.5°	690.1	817.6	983.9	1119.7	1241.6	1291.5	1341.4	1427.3	1498.0	1535.4	1549.3
65°	602.8	733.1	899.4	1035.2	1158.5	1209.8	1254.1	1346.9	1401.0	1439.8	1456.4
67.5°	522.4	656.8	827.3	963.1	1080.9	1128.0	1176.5	1263.8	1324.8	1363.6	1380.2
70°	454.5	590.3	755.2	900.7	1011.6	1062.9	1112.8	1194.5	1252.7	1291.5	1291.5
72.5°	389.4	528.0	694.3	834.2	950.6	1000.5	1040.7	1130.8	1184.8	1211.1	1208.4
75°	334.0	469.8	640.2	769.1	886.9	931.2	983.9	1065.6	1110.0	1128.0	1119.7
77.5°	279.9	415.7	587.6	719.2	828.7	888.3	927.1	993.6	1032.4	1049.0	1039.3
80°	230.0	363.1	529.4	659.6	773.2	816.2	852.2	916.0	950.6	964.5	956.2
82.5°	181.5	314.6	476.7	604.2	699.8	735.8	773.2	834.2	871.6	884.1	874.4
85°	133.0	261.9	418.5	530.7	619.4	656.8	692.9	746.9	777.4	791.3	778.8
87.5°	90.1	212.0	352.0	453.1	532.1	565.4	598.6	645.8	680.4	688.7	684.6
90°	33.3	99.8	182.9	231.4	275.8	295.2	310.4	343.7	367.2	378.3	375.5
92.5°	37.4	79.0	140.0	189.8	230.0	252.2	275.8	309.0	335.4	347.8	349.2
95°	41.6	69.3	98.4	145.5	187.1	202.3	218.9	255.0	285.5	307.6	314.6
97.5°	40.2	70.7	94.2	106.7	151.0	170.4	185.7	213.4	232.8	246.7	260.5
100°	41.6	73.4	105.3	101.2	110.9	134.4	155.2	187.1	207.9	220.3	223.1
102.5°	41.6	74.8	117.8	110.9	101.2	102.5	110.9	158.0	184.3	200.9	207.9
105°	41.6	74.8	120.6	121.9	106.7	101.2	98.4	113.6	153.8	178.8	191.2
107.5°	41.6	74.8	121.9	148.3	119.2	110.9	103.9	95.6	105.3	145.5	169.1
110°	40.2	72.1	123.3	156.6	130.3	121.9	116.4	99.8	91.5	102.5	135.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	37.4	62.4	121.9	158.0	153.8	135.8	127.5	110.9	95.6	87.3	95.6
115°	34.6	55.4	120.6	158.0	178.8	160.7	140.0	121.9	106.7	92.8	85.9
117.5°	34.6	52.7	123.3	156.6	185.7	191.2	169.1	133.0	117.8	103.9	91.5
120°	33.3	45.7	115.0	156.6	184.3	198.2	198.2	149.7	127.5	116.4	103.9
122.5°	31.9	37.4	115.0	156.6	182.9	196.8	207.9	198.2	142.7	126.1	115.0
125°	30.5	36.0	103.9	155.2	180.1	192.6	205.1	216.2	170.4	140.0	126.1
127.5°	29.1	34.6	88.7	155.2	177.4	189.8	200.9	220.3	210.6	163.5	140.0
130°	27.7	31.9	79.0	144.1	173.2	184.3	196.8	216.2	234.2	214.8	163.5
132.5°	26.3	30.5	63.7	137.2	171.8	180.1	189.8	210.6	228.6	238.3	217.6
135°	23.6	27.7	54.0	123.3	173.2	178.8	185.7	205.1	223.1	238.3	241.1
137.5°	22.2	26.3	43.0	106.7	160.7	180.1	182.9	198.2	216.2	230.0	243.9
140°	20.8	24.9	31.9	90.1	151.0	167.7	184.3	192.6	209.2	224.5	237.0
142.5°	20.8	23.6	27.7	77.6	134.4	158.0	171.8	188.5	200.9	216.2	230.0
145°	19.4	22.2	26.3	55.4	109.5	138.6	162.1	189.8	195.4	207.9	221.7
147.5°	19.4	20.8	26.3	47.1	92.8	116.4	141.3	173.2	195.4	200.9	213.4
150°	18.0	20.8	24.9	30.5	74.8	97.0	116.4	166.3	184.3	198.2	205.1
152.5°	18.0	19.4	24.9	26.3	54.0	77.6	95.6	137.2	171.8	189.8	202.3
155°	18.0	19.4	23.6	26.3	40.2	55.4	76.2	106.7	145.5	176.0	189.8
157.5°	18.0	19.4	22.2	26.3	27.7	37.4	52.7	85.9	115.0	145.5	177.4
160°	18.0	18.0	22.2	24.9	26.3	27.7	34.6	56.8	88.7	109.5	137.2
162.5°	18.0	18.0	20.8	23.6	26.3	26.3	26.3	38.8	55.4	84.5	102.5
165°	18.0	18.0	19.4	22.2	24.9	24.9	26.3	26.3	31.9	49.9	65.1
167.5°	18.0	18.0	18.0	20.8	22.2	23.6	24.9	24.9	26.3	26.3	33.3
170°	16.6	18.0	18.0	19.4	20.8	20.8	22.2	23.6	24.9	24.9	26.3
172.5°	16.6	16.6	16.6	18.0	18.0	19.4	19.4	20.8	22.2	22.2	23.6
175°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	18.0	18.0	18.0	19.4
177.5°	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6
180°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8	3325.8
2.5°	3395.1	3402.0	3417.3	3425.6	3431.1	3432.5	3449.1	3443.6	3453.3	3453.3
5°	3564.1	3589.1	3618.2	3648.7	3659.8	3669.5	3683.3	3687.5	3698.6	3687.5
7.5°	3731.8	3759.5	3792.8	3823.3	3841.3	3855.2	3874.6	3884.3	3894.0	3891.2
10°	3851.0	3887.0	3930.0	3970.2	3988.2	4002.0	4024.2	4035.3	4045.0	4040.8
12.5°	3936.9	3985.4	4032.5	4078.3	4096.3	4110.1	4132.3	4146.2	4154.5	4166.9
15°	3999.3	4045.0	4100.4	4150.3	4168.3	4187.7	4209.9	4221.0	4227.9	4233.5
17.5°	4024.2	4083.8	4132.3	4178.0	4197.4	4216.8	4244.5	4255.6	4263.9	4270.9
20°	4015.9	4071.3	4125.4	4173.9	4194.7	4215.4	4237.6	4257.0	4262.6	4263.9
22.5°	3970.2	4033.9	4093.5	4143.4	4153.1	4171.1	4191.9	4212.7	4218.2	4219.6
25°	3900.9	3957.7	4013.1	4051.9	4065.8	4088.0	4107.4	4124.0	4126.8	4129.5
27.5°	3795.6	3849.6	3898.1	3946.6	3964.6	3979.9	3997.9	4009.0	4010.4	4015.9
30°	3659.8	3718.0	3765.1	3806.7	3816.4	3823.3	3842.7	3857.9	3853.8	3857.9
32.5°	3504.6	3560.0	3605.7	3630.7	3643.1	3658.4	3670.8	3677.8	3677.8	3670.8
35°	3332.7	3381.2	3418.6	3439.4	3449.1	3461.6	3471.3	3475.5	3478.2	3467.1
37.5°	3141.5	3190.0	3219.1	3241.3	3246.8	3257.9	3246.8	3259.3	3255.1	3249.6
40°	2950.3	2990.4	3009.8	3034.8	3025.1	3030.6	3023.7	3036.2	3020.9	3018.2
42.5°	2761.8	2782.6	2802.0	2800.6	2803.4	2799.2	2793.7	2784.0	2781.2	2774.3
45°	2573.3	2594.1	2590.0	2588.6	2590.0	2583.0	2571.9	2570.6	2559.5	2549.8
47.5°	2380.7	2386.3	2391.8	2384.9	2383.5	2375.2	2368.2	2350.2	2341.9	2335.0
50°	2207.5	2214.4	2210.3	2203.3	2190.9	2186.7	2171.5	2159.0	2152.1	2142.4
52.5°	2046.8	2052.3	2039.8	2030.1	2017.7	2007.9	1994.1	1983.0	1969.1	1969.1
55°	1905.4	1902.6	1883.2	1873.5	1861.1	1852.7	1834.7	1820.9	1815.3	1804.2
57.5°	1773.8	1765.4	1744.7	1729.4	1721.1	1710.0	1700.3	1687.8	1680.9	1676.8
60°	1654.6	1639.3	1625.5	1611.6	1607.5	1593.6	1588.1	1565.9	1561.7	1560.4
62.5°	1546.5	1539.6	1522.9	1496.6	1488.3	1484.1	1471.7	1462.0	1452.3	1455.0
65°	1460.6	1437.0	1414.8	1398.2	1388.5	1381.6	1373.3	1363.6	1358.0	1355.3
67.5°	1366.3	1344.2	1322.0	1305.4	1298.4	1292.9	1283.2	1274.9	1272.1	1270.7
70°	1274.9	1255.5	1238.9	1216.7	1208.4	1207.0	1195.9	1190.4	1186.2	1183.4
72.5°	1189.0	1166.8	1146.0	1130.8	1123.8	1119.7	1114.1	1110.0	1105.8	1100.3
75°	1101.7	1080.9	1062.9	1049.0	1046.2	1042.1	1035.2	1031.0	1029.6	1025.5
77.5°	1017.1	1000.5	982.5	977.0	971.4	968.6	968.6	963.1	960.3	960.3
80°	939.5	921.5	907.7	900.7	899.4	896.6	895.2	889.7	886.9	891.0
82.5°	853.6	837.0	827.3	817.6	816.2	813.4	813.4	809.3	810.7	807.9
85°	763.5	749.7	740.0	734.4	731.7	733.1	733.1	731.7	731.7	730.3
87.5°	663.8	655.5	647.1	643.0	644.4	647.1	644.4	643.0	643.0	645.8
90°	368.6	365.8	365.8	365.8	367.2	364.5	367.2	368.6	367.2	368.6
92.5°	346.4	343.7	345.1	346.4	349.2	346.4	349.2	349.2	347.8	349.2
95°	314.6	320.1	317.3	321.5	322.9	321.5	325.7	328.4	325.7	324.3
97.5°	271.6	277.1	284.1	289.6	295.2	295.2	296.6	299.3	299.3	302.1
100°	220.3	225.9	228.6	237.0	246.7	246.7	252.2	256.4	256.4	259.1
102.5°	209.2	209.2	207.9	206.5	206.5	205.1	205.1	207.9	207.9	212.0
105°	196.8	198.2	198.2	198.2	199.5	198.2	198.2	199.5	198.2	196.8
107.5°	180.1	187.1	189.8	191.2	191.2	191.2	192.6	194.0	194.0	194.0
110°	155.2	170.4	176.0	180.1	184.3	181.5	185.7	188.5	188.5	188.5





TEST NUMBER: P236383

CATALOG NUMBER: SKB2-LD5-12-W-UNV-L840-CD2-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	120.6	142.7	156.6	164.9	169.1	170.4	174.6	178.8	178.8	178.8
115°	84.5	97.0	119.2	142.7	148.3	151.0	158.0	164.9	164.9	164.9
117.5°	83.1	79.0	87.3	95.6	98.4	108.1	131.6	140.0	144.1	141.3
120°	91.5	84.5	79.0	76.2	77.6	83.1	88.7	94.2	98.4	97.0
122.5°	105.3	92.8	85.9	81.8	81.8	79.0	79.0	77.6	76.2	74.8
125°	115.0	108.1	98.4	91.5	90.1	87.3	85.9	83.1	83.1	80.4
127.5°	126.1	117.8	112.2	108.1	103.9	101.2	98.4	94.2	91.5	88.7
130°	141.3	130.3	121.9	117.8	116.4	115.0	112.2	109.5	105.3	102.5
132.5°	164.9	148.3	137.2	131.6	128.9	126.1	121.9	120.6	117.8	115.0
135°	224.5	177.4	156.6	148.3	144.1	140.0	135.8	133.0	128.9	127.5
137.5°	243.9	230.0	200.9	174.6	164.9	160.7	153.8	149.7	145.5	144.1
140°	249.4	259.1	239.7	235.6	230.0	214.8	188.5	177.4	173.2	170.4
142.5°	239.7	252.2	260.5	266.1	249.4	248.0	242.5	238.3	238.3	231.4
145°	232.8	242.5	252.2	259.1	261.9	264.7	268.8	271.6	267.4	264.7
147.5°	223.1	234.2	239.7	249.4	250.8	253.6	257.7	259.1	260.5	259.1
150°	212.0	223.1	228.6	238.3	238.3	242.5	245.3	249.4	249.4	246.7
152.5°	203.7	212.0	218.9	225.9	228.6	230.0	232.8	235.6	235.6	235.6
155°	203.7	203.7	206.5	212.0	214.8	216.2	218.9	220.3	221.7	220.3
157.5°	182.9	196.8	206.5	206.5	205.1	205.1	206.5	209.2	210.6	209.2
160°	156.6	177.4	184.3	192.6	195.4	196.8	206.5	206.5	206.5	205.1
162.5°	117.8	137.2	152.4	167.7	170.4	177.4	181.5	180.1	184.3	177.4
165°	84.5	97.0	105.3	115.0	121.9	128.9	135.8	138.6	142.7	140.0
167.5°	45.7	54.0	67.9	77.6	81.8	84.5	90.1	92.8	98.4	94.2
170°	26.3	26.3	27.7	36.0	40.2	41.6	45.7	45.7	44.3	47.1
172.5°	23.6	24.9	24.9	24.9	24.9	24.9	23.6	23.6	22.2	20.8
175°	19.4	20.8	20.8	20.8	20.8	20.8	19.4	19.4	18.0	16.6
177.5°	16.6	16.6	16.6	16.6	15.2	15.2	15.2	13.9	12.5	11.1
180°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2

(END OF REPORT)