

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: P236382

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236382
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-L835-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

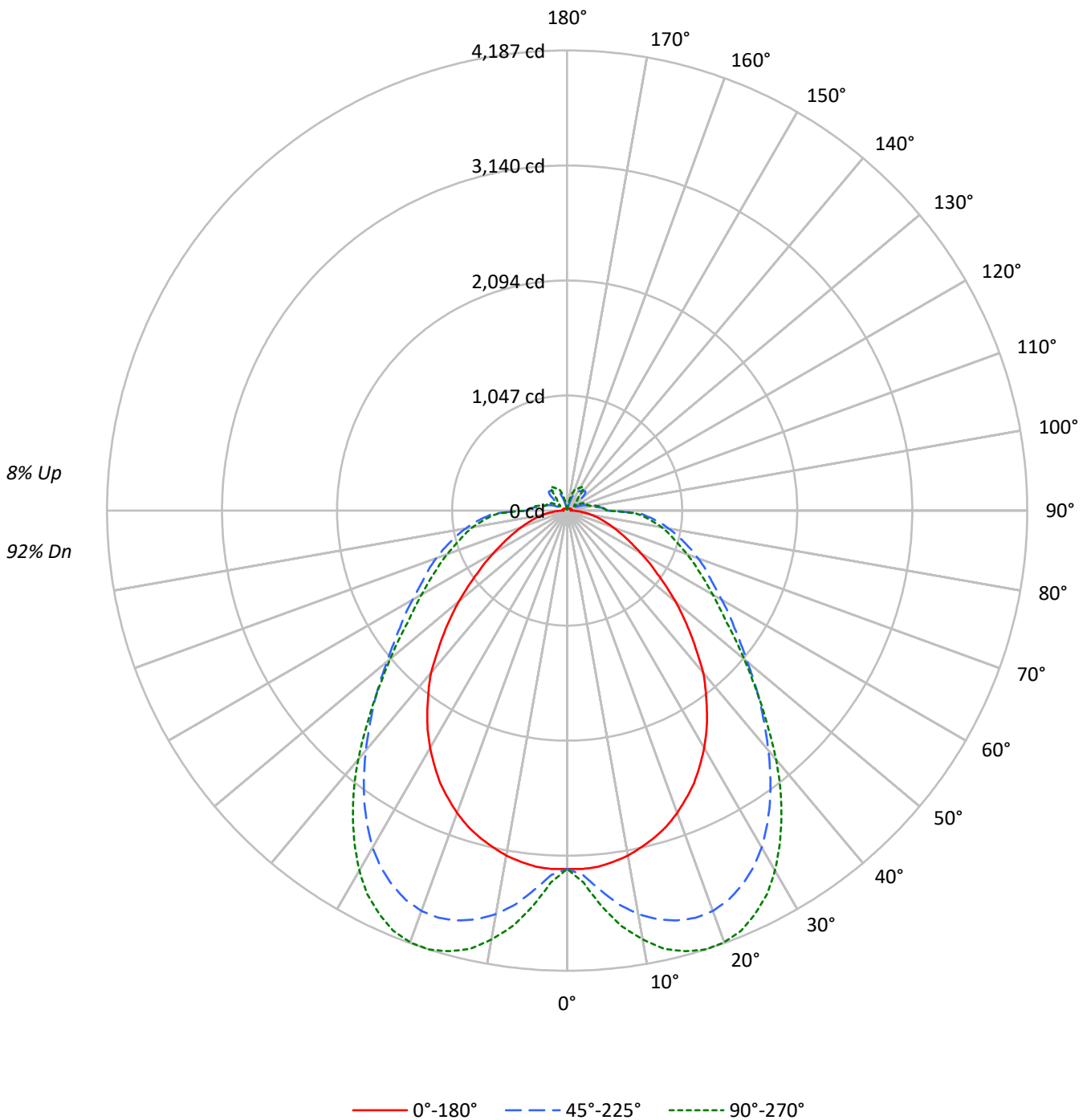
Lumens per Lamp: N/A
Luminaire Lumens: 12182.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.51 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')
CIE Type: Direct

Input Watts (W): 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°	14038	14038	14038
5°	13930	14737	15400
10°	13683	15766	16825
15°	13349	16370	17709
20°	12924	16602	18058
25°	12384	16406	17846
30°	11691	15849	17153
35°	10861	14922	15999
40°	9957	13795	14590
45°	8765	12698	13046
50°	7658	11669	11737
55°	6542	10946	10725
60°	5629	10506	10222
65°	4922	10311	9972
70°	4361	10444	10018
75°	3922	10649	10310
80°	3515	11142	11134
85°	2941	11828	12174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.0	2.8
10°-20°	1061.8	8.7
20°-30°	1663.2	13.7
30°-40°	1913.2	15.7
40°-50°	1788.8	14.7
50°-60°	1505.6	12.4
60°-70°	1241.7	10.2
70°-80°	997.5	8.2
80°-90°	683.0	5.6
90°-100°	274.9	2.3
100°-110°	168.0	1.4
110°-120°	122.0	1.0
120°-130°	105.7	0.9
130°-140°	117.7	1.0
140°-150°	112.3	0.9
150°-160°	66.7	0.5
160°-170°	21.9	0.2
170°-180°	2.0	0.0
0°-30°	3061.0	25.1
0°-40°	4974.2	40.8
0°-60°	8268.6	67.9
0°-90°	11190.8	91.9
90°-120°	564.9	4.6
90°-150°	900.6	7.4
90°-180°	991.0	8.1
0°-180°	12182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3260	3260	3260	3260	3260	
5°	3252	3324	3467	3588	3615	308
15°	3078	3491	3861	4086	4150	867
25°	2733	3318	3762	3986	4048	1254
35°	2217	2822	3220	3381	3399	1385
45°	1590	2142	2485	2539	2500	1228
55°	1001	1569	1857	1824	1769	905
65°	591	1186	1428	1361	1329	591
75°	327	913	1098	1026	1005	348
85°	130	644	764	717	716	127
90°	33	289	368	360	361	26
95°	41	198	308	316	318	32
105°	41	99	188	196	193	43
115°	34	158	84	145	162	35
125°	30	189	124	88	79	27
135°	23	175	236	141	125	18
145°	19	136	217	257	260	12
155°	18	54	186	211	216	8
165°	18	24	64	120	137	5
175°	16	16	19	20	16	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°	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5
2.5°	3264.6	3267.3	3274.1	3284.9	3286.3	3282.2	3276.8	3286.3	3282.2	3302.6	3318.9
5°	3252.3	3255.1	3270.0	3301.2	3312.1	3324.3	3328.4	3362.4	3389.6	3428.9	3467.0
7.5°	3223.8	3240.1	3264.6	3317.5	3362.4	3381.4	3401.8	3454.8	3509.1	3566.2	3615.1
10°	3187.1	3207.5	3257.8	3335.2	3404.5	3438.5	3468.3	3544.4	3604.2	3666.7	3727.8
12.5°	3135.5	3165.4	3233.3	3343.4	3435.7	3472.4	3510.5	3594.7	3666.7	3742.8	3808.0
15°	3078.4	3117.8	3207.5	3342.0	3443.9	3491.4	3532.2	3621.9	3704.7	3786.2	3861.0
17.5°	3010.5	3056.7	3172.2	3320.3	3433.0	3483.3	3528.1	3623.2	3714.2	3799.8	3885.4
20°	2927.6	2986.1	3124.6	3280.9	3396.3	3452.0	3498.2	3601.5	3699.3	3794.4	3875.9
22.5°	2832.6	2903.2	3054.0	3221.1	3342.0	3396.3	3445.3	3558.0	3662.6	3750.9	3835.2
25°	2733.4	2809.5	2973.8	3142.3	3267.3	3317.5	3371.9	3490.1	3587.9	3678.9	3761.8
27.5°	2615.2	2698.1	2878.7	3048.6	3169.5	3227.9	3280.9	3392.3	3492.8	3587.9	3665.3
30°	2492.9	2582.6	2767.3	2923.6	3049.9	3116.5	3164.0	3271.4	3377.3	3464.3	3540.3
32.5°	2362.5	2448.1	2635.6	2797.2	2916.8	2979.3	3025.5	3131.4	3229.2	3309.4	3386.8
35°	2217.1	2312.2	2495.6	2649.1	2766.0	2821.7	2867.9	2983.3	3068.9	3150.4	3219.7
37.5°	2071.8	2161.4	2336.7	2495.6	2609.8	2661.4	2703.5	2817.6	2897.8	2971.1	3036.3
40°	1926.4	2003.8	2177.7	2320.4	2438.6	2483.4	2533.7	2630.1	2717.1	2791.8	2848.9
42.5°	1748.4	1844.9	2017.4	2157.4	2263.3	2317.7	2365.2	2465.7	2539.1	2605.7	2661.4
45°	1589.5	1690.0	1849.0	1990.3	2098.9	2142.4	2190.0	2285.1	2367.9	2426.3	2484.8
47.5°	1434.6	1535.1	1694.1	1825.9	1934.6	1990.3	2028.3	2124.8	2200.8	2264.7	2308.2
50°	1285.2	1387.1	1539.2	1677.8	1781.0	1832.7	1881.6	1968.5	2052.8	2104.4	2139.7
52.5°	1138.5	1243.1	1406.1	1535.1	1643.8	1691.4	1736.2	1834.0	1911.5	1963.1	1991.6
55°	1001.2	1118.1	1278.4	1410.2	1516.1	1569.1	1616.7	1713.1	1778.3	1823.2	1857.1
57.5°	887.1	998.5	1160.2	1297.4	1406.1	1453.6	1505.3	1599.0	1661.5	1709.0	1741.6
60°	771.6	892.6	1059.7	1190.1	1302.8	1358.5	1406.1	1490.3	1559.6	1607.2	1624.8
62.5°	676.6	801.5	964.6	1097.7	1217.2	1266.2	1315.1	1399.3	1468.6	1505.3	1518.8
65°	591.0	718.7	881.7	1014.8	1135.7	1186.0	1229.5	1320.5	1373.5	1411.5	1427.8
67.5°	512.2	643.9	811.0	944.2	1059.7	1105.8	1153.4	1239.0	1298.8	1336.8	1353.1
70°	445.6	578.7	740.4	883.0	991.7	1042.0	1090.9	1171.1	1228.1	1266.2	1266.2
72.5°	381.7	517.6	680.6	817.8	932.0	980.9	1020.3	1108.6	1161.5	1187.4	1184.6
75°	327.4	460.5	627.6	754.0	869.5	912.9	964.6	1044.7	1088.2	1105.8	1097.7
77.5°	274.4	407.6	576.0	705.1	812.4	870.8	908.9	974.1	1012.1	1028.4	1018.9
80°	225.5	355.9	519.0	646.7	758.1	800.2	835.5	898.0	932.0	945.5	937.4
82.5°	178.0	308.4	467.3	592.3	686.1	721.4	758.1	817.8	854.5	866.7	857.2
85°	130.4	256.8	410.3	520.3	607.3	643.9	679.3	732.3	762.1	775.7	763.5
87.5°	88.3	207.9	345.1	444.2	521.7	554.3	586.9	633.1	667.0	675.2	671.1
90°	32.6	97.8	179.3	226.9	270.3	289.4	304.3	336.9	360.0	370.9	368.2
92.5°	36.7	77.4	137.2	186.1	225.5	247.3	270.3	303.0	328.8	341.0	342.4
95°	40.8	67.9	96.5	142.6	183.4	198.3	214.6	250.0	279.9	301.6	308.4
97.5°	39.4	69.3	92.4	104.6	148.1	167.1	182.0	209.2	228.2	241.8	255.4
100°	40.8	72.0	103.2	99.2	108.7	131.8	152.2	183.4	203.8	216.0	218.7
102.5°	40.8	73.4	115.5	108.7	99.2	100.5	108.7	154.9	180.7	197.0	203.8
105°	40.8	73.4	118.2	119.6	104.6	99.2	96.5	111.4	150.8	175.3	187.5
107.5°	40.8	73.4	119.6	145.4	116.8	108.7	101.9	93.7	103.2	142.6	165.7
110°	39.4	70.6	120.9	153.5	127.7	119.6	114.1	97.8	89.7	100.5	133.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	36.7	61.1	119.6	154.9	150.8	133.1	125.0	108.7	93.7	85.6	93.7
115°	34.0	54.3	118.2	154.9	175.3	157.6	137.2	119.6	104.6	91.0	84.2
117.5°	34.0	51.6	120.9	153.5	182.0	187.5	165.7	130.4	115.5	101.9	89.7
120°	32.6	44.8	112.8	153.5	180.7	194.3	194.3	146.7	125.0	114.1	101.9
122.5°	31.2	36.7	112.8	153.5	179.3	192.9	203.8	194.3	139.9	123.6	112.8
125°	29.9	35.3	101.9	152.2	176.6	188.8	201.1	211.9	167.1	137.2	123.6
127.5°	28.5	34.0	86.9	152.2	173.9	186.1	197.0	216.0	206.5	160.3	137.2
130°	27.2	31.2	77.4	141.3	169.8	180.7	192.9	211.9	229.6	210.6	160.3
132.5°	25.8	29.9	62.5	134.5	168.5	176.6	186.1	206.5	224.2	233.7	213.3
135°	23.1	27.2	53.0	120.9	169.8	175.3	182.0	201.1	218.7	233.7	236.4
137.5°	21.7	25.8	42.1	104.6	157.6	176.6	179.3	194.3	211.9	225.5	239.1
140°	20.4	24.5	31.2	88.3	148.1	164.4	180.7	188.8	205.1	220.1	232.3
142.5°	20.4	23.1	27.2	76.1	131.8	154.9	168.5	184.8	197.0	211.9	225.5
145°	19.0	21.7	25.8	54.3	107.3	135.9	158.9	186.1	191.6	203.8	217.4
147.5°	19.0	20.4	25.8	46.2	91.0	114.1	138.6	169.8	191.6	197.0	209.2
150°	17.7	20.4	24.5	29.9	73.4	95.1	114.1	163.0	180.7	194.3	201.1
152.5°	17.7	19.0	24.5	25.8	53.0	76.1	93.7	134.5	168.5	186.1	198.3
155°	17.7	19.0	23.1	25.8	39.4	54.3	74.7	104.6	142.6	172.5	186.1
157.5°	17.7	19.0	21.7	25.8	27.2	36.7	51.6	84.2	112.8	142.6	173.9
160°	17.7	17.7	21.7	24.5	25.8	27.2	34.0	55.7	86.9	107.3	134.5
162.5°	17.7	17.7	20.4	23.1	25.8	25.8	25.8	38.0	54.3	82.9	100.5
165°	17.7	17.7	19.0	21.7	24.5	24.5	25.8	25.8	31.2	48.9	63.9
167.5°	17.7	17.7	17.7	20.4	21.7	23.1	24.5	24.5	25.8	25.8	32.6
170°	16.3	17.7	17.7	19.0	20.4	20.4	21.7	23.1	24.5	24.5	25.8
172.5°	16.3	16.3	16.3	17.7	17.7	19.0	19.0	20.4	21.7	21.7	23.1
175°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	17.7	17.7	17.7	19.0
177.5°	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
180°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5	3260.5
2.5°	3328.4	3335.2	3350.2	3358.3	3363.7	3365.1	3381.4	3376.0	3385.5	3385.5
5°	3494.2	3518.6	3547.1	3577.0	3587.9	3597.4	3611.0	3615.1	3625.9	3615.1
7.5°	3658.5	3685.7	3718.3	3748.2	3765.9	3779.5	3798.5	3808.0	3817.5	3814.8
10°	3775.4	3810.7	3852.8	3892.2	3909.9	3923.5	3945.2	3956.1	3965.6	3961.5
12.5°	3859.6	3907.2	3953.3	3998.2	4015.8	4029.4	4051.2	4064.7	4072.9	4085.1
15°	3920.7	3965.6	4019.9	4068.8	4086.5	4105.5	4127.2	4138.1	4144.9	4150.3
17.5°	3945.2	4003.6	4051.2	4096.0	4115.0	4134.0	4161.2	4172.1	4180.2	4187.0
20°	3937.0	3991.4	4044.4	4091.9	4112.3	4132.7	4154.4	4173.4	4178.9	4180.2
22.5°	3892.2	3954.7	4013.1	4062.0	4071.5	4089.2	4109.6	4130.0	4135.4	4136.7
25°	3824.3	3880.0	3934.3	3972.4	3985.9	4007.7	4026.7	4043.0	4045.7	4048.4
27.5°	3721.0	3774.0	3821.6	3869.1	3886.8	3901.7	3919.4	3930.2	3931.6	3937.0
30°	3587.9	3645.0	3691.1	3731.9	3741.4	3748.2	3767.2	3782.2	3778.1	3782.2
32.5°	3435.7	3490.1	3534.9	3559.4	3571.6	3586.5	3598.8	3605.6	3605.6	3598.8
35°	3267.3	3314.8	3351.5	3371.9	3381.4	3393.6	3403.1	3407.2	3409.9	3399.1
37.5°	3079.8	3127.4	3155.9	3177.6	3183.1	3193.9	3183.1	3195.3	3191.2	3185.8
40°	2892.3	2931.7	2950.7	2975.2	2965.7	2971.1	2964.3	2976.6	2961.6	2958.9
42.5°	2707.6	2727.9	2747.0	2745.6	2748.3	2744.2	2738.8	2729.3	2726.6	2719.8
45°	2522.8	2543.2	2539.1	2537.7	2539.1	2532.3	2521.4	2520.1	2509.2	2499.7
47.5°	2334.0	2339.4	2344.8	2338.0	2336.7	2328.5	2321.7	2304.1	2295.9	2289.1
50°	2164.2	2170.9	2166.9	2160.1	2147.8	2143.8	2128.8	2116.6	2109.8	2100.3
52.5°	2006.6	2012.0	1999.8	1990.3	1978.0	1968.5	1954.9	1944.1	1930.5	1930.5
55°	1868.0	1865.3	1846.3	1836.7	1824.5	1816.4	1798.7	1785.1	1779.7	1768.8
57.5°	1738.9	1730.8	1710.4	1695.5	1687.3	1676.4	1666.9	1654.7	1647.9	1643.8
60°	1622.1	1607.2	1593.6	1580.0	1575.9	1562.3	1556.9	1535.1	1531.1	1529.7
62.5°	1516.1	1509.3	1493.0	1467.2	1459.1	1455.0	1442.8	1433.3	1423.7	1426.5
65°	1431.9	1408.8	1387.1	1370.8	1361.3	1354.5	1346.3	1336.8	1331.4	1328.6
67.5°	1339.5	1317.8	1296.0	1279.7	1272.9	1267.5	1258.0	1249.9	1247.1	1245.8
70°	1249.9	1230.8	1214.5	1192.8	1184.6	1183.3	1172.4	1167.0	1162.9	1160.2
72.5°	1165.6	1143.9	1123.5	1108.6	1101.8	1097.7	1092.3	1088.2	1084.1	1078.7
75°	1080.0	1059.7	1042.0	1028.4	1025.7	1021.6	1014.8	1010.8	1009.4	1005.3
77.5°	997.2	980.9	963.2	957.8	952.3	949.6	949.6	944.2	941.5	941.5
80°	921.1	903.4	889.8	883.0	881.7	879.0	877.6	872.2	869.5	873.5
82.5°	836.9	820.6	811.0	801.5	800.2	797.5	797.5	793.4	794.7	792.0
85°	748.6	735.0	725.5	720.0	717.3	718.7	718.7	717.3	717.3	715.9
87.5°	650.7	642.6	634.4	630.4	631.7	634.4	631.7	630.4	630.4	633.1
90°	361.4	358.7	358.7	358.7	360.0	357.3	360.0	361.4	360.0	361.4
92.5°	339.6	336.9	338.3	339.6	342.4	339.6	342.4	342.4	341.0	342.4
95°	308.4	313.8	311.1	315.2	316.5	315.2	319.3	322.0	319.3	317.9
97.5°	266.3	271.7	278.5	283.9	289.4	289.4	290.7	293.4	293.4	296.2
100°	216.0	221.4	224.2	232.3	241.8	241.8	247.3	251.3	251.3	254.0
102.5°	205.1	205.1	203.8	202.4	202.4	201.1	201.1	203.8	203.8	207.9
105°	192.9	194.3	194.3	194.3	195.6	194.3	194.3	195.6	194.3	192.9
107.5°	176.6	183.4	186.1	187.5	187.5	187.5	188.8	190.2	190.2	190.2
110°	152.2	167.1	172.5	176.6	180.7	178.0	182.0	184.8	184.8	184.8



TEST NUMBER: P236382

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	118.2	139.9	153.5	161.7	165.7	167.1	171.2	175.3	175.3	175.3
115°	82.9	95.1	116.8	139.9	145.4	148.1	154.9	161.7	161.7	161.7
117.5°	81.5	77.4	85.6	93.7	96.5	106.0	129.1	137.2	141.3	138.6
120°	89.7	82.9	77.4	74.7	76.1	81.5	86.9	92.4	96.5	95.1
122.5°	103.2	91.0	84.2	80.2	80.2	77.4	77.4	76.1	74.7	73.4
125°	112.8	106.0	96.5	89.7	88.3	85.6	84.2	81.5	81.5	78.8
127.5°	123.6	115.5	110.0	106.0	101.9	99.2	96.5	92.4	89.7	86.9
130°	138.6	127.7	119.6	115.5	114.1	112.8	110.0	107.3	103.2	100.5
132.5°	161.7	145.4	134.5	129.1	126.3	123.6	119.6	118.2	115.5	112.8
135°	220.1	173.9	153.5	145.4	141.3	137.2	133.1	130.4	126.3	125.0
137.5°	239.1	225.5	197.0	171.2	161.7	157.6	150.8	146.7	142.6	141.3
140°	244.5	254.0	235.0	231.0	225.5	210.6	184.8	173.9	169.8	167.1
142.5°	235.0	247.3	255.4	260.8	244.5	243.2	237.7	233.7	233.7	226.9
145°	228.2	237.7	247.3	254.0	256.8	259.5	263.6	266.3	262.2	259.5
147.5°	218.7	229.6	235.0	244.5	245.9	248.6	252.7	254.0	255.4	254.0
150°	207.9	218.7	224.2	233.7	233.7	237.7	240.5	244.5	244.5	241.8
152.5°	199.7	207.9	214.6	221.4	224.2	225.5	228.2	231.0	231.0	231.0
155°	199.7	199.7	202.4	207.9	210.6	211.9	214.6	216.0	217.4	216.0
157.5°	179.3	192.9	202.4	202.4	201.1	201.1	202.4	205.1	206.5	205.1
160°	153.5	173.9	180.7	188.8	191.6	192.9	202.4	202.4	202.4	201.1
162.5°	115.5	134.5	149.4	164.4	167.1	173.9	178.0	176.6	180.7	173.9
165°	82.9	95.1	103.2	112.8	119.6	126.3	133.1	135.9	139.9	137.2
167.5°	44.8	53.0	66.6	76.1	80.2	82.9	88.3	91.0	96.5	92.4
170°	25.8	25.8	27.2	35.3	39.4	40.8	44.8	44.8	43.5	46.2
172.5°	23.1	24.5	24.5	24.5	24.5	24.5	23.1	23.1	21.7	20.4
175°	19.0	20.4	20.4	20.4	20.4	20.4	19.0	19.0	17.7	16.3
177.5°	16.3	16.3	16.3	16.3	14.9	14.9	14.9	13.6	12.2	10.9
180°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9

(END OF REPORT)