

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: P232513

Luminaire Tested: **8SKB1-LD5-10-N-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SKB1-LD5-10-N-UNV-L835-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10077.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

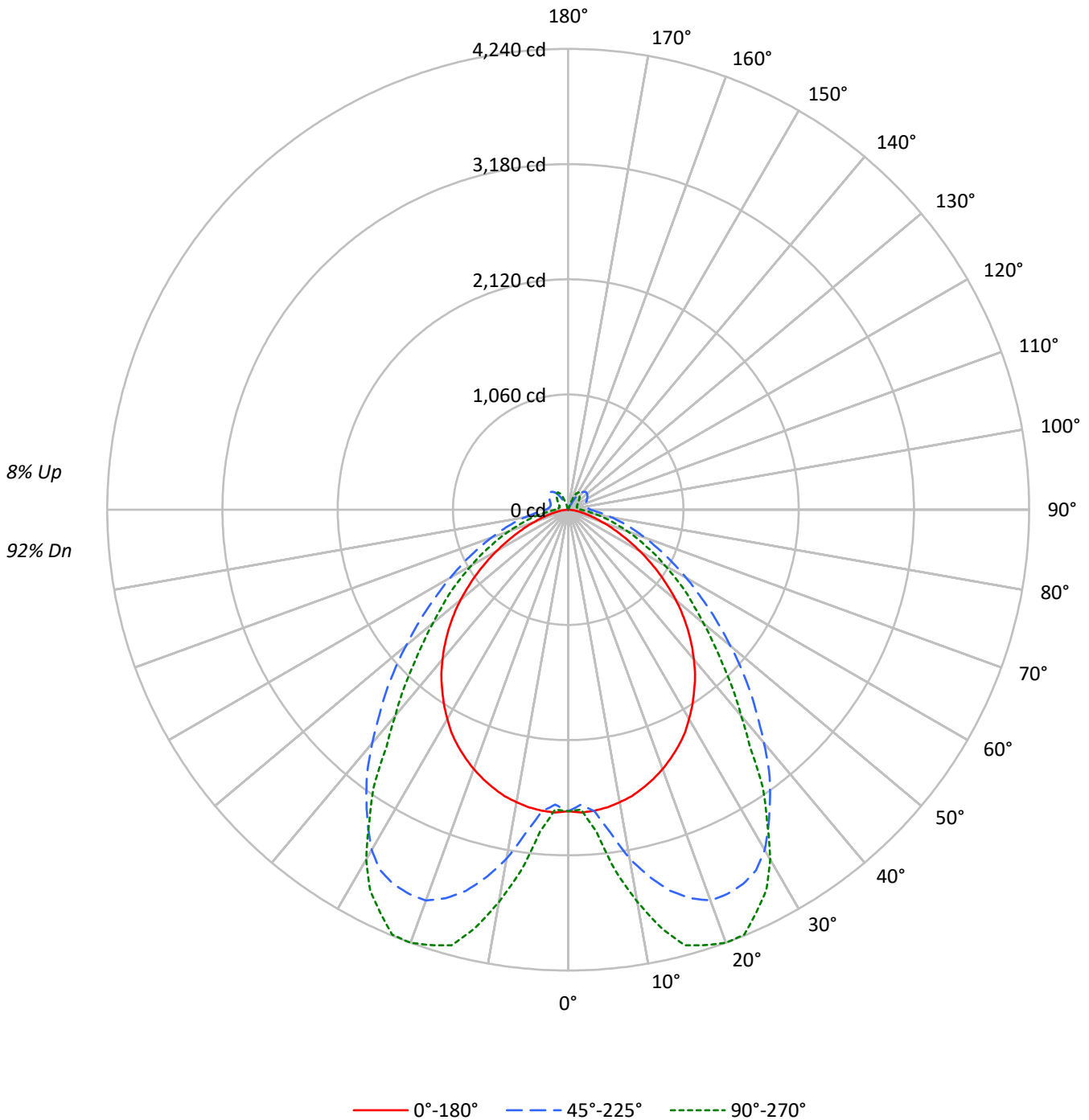
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	103	98	95	104	99	96	92	94	91	88	88	86	84	84	82	80	77
2	98	90	84	78	95	88	82	77	83	78	74	78	74	71	74	71	68	65
3	90	80	72	66	87	78	70	65	74	68	63	70	65	61	66	62	58	56
4	83	71	63	56	80	69	62	56	66	59	54	63	57	52	60	55	51	48
5	76	64	55	49	74	62	54	48	59	52	47	56	51	46	54	49	45	42
6	70	58	49	43	68	56	48	42	54	47	41	51	45	40	49	44	40	37
7	65	52	44	38	63	51	43	38	49	42	37	47	41	36	45	39	35	33
8	61	48	40	34	59	47	39	34	45	38	33	43	37	32	41	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	41	33	28	52	40	33	28	38	32	27	37	31	27	35	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14937	14937	14937
5°	14969	14003	14573
10°	14841	15492	16602
15°	14631	16466	17611
20°	14356	16733	17046
25°	14004	16163	15731
30°	13529	15066	13799
35°	12950	13327	11296
40°	12258	11489	8785
45°	11415	9746	7048
50°	10376	8093	5688
55°	9117	6660	4656
60°	7676	5455	3672
65°	6174	4425	2846
70°	4750	3536	2170
75°	3538	2793	1570
80°	2481	2151	1113
85°	1482	1623	762



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	2.8
10°-20°	988.7	9.8
20°-30°	1627.7	16.2
30°-40°	1828.7	18.1
40°-50°	1627.3	16.1
50°-60°	1258.5	12.5
60°-70°	854.6	8.5
70°-80°	510.0	5.1
80°-90°	273.6	2.7
90°-100°	180.0	1.8
100°-110°	152.7	1.5
110°-120°	141.3	1.4
120°-130°	131.6	1.3
130°-140°	111.6	1.1
140°-150°	76.2	0.8
150°-160°	29.5	0.3
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	2900.5	28.8
0°-40°	4729.2	46.9
0°-60°	7615.0	75.6
0°-90°	9253.2	91.8
90°-120°	474.0	4.7
90°-150°	793.4	7.9
90°-180°	824.0	8.2
0°-180°	10077.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2775	2775	2775	2775	2775	
5°	2780	2741	2785	2933	2973	264
15°	2652	2978	3629	4082	4149	747
25°	2398	3080	3802	4100	4090	1103
35°	2021	2774	3237	3207	3124	1263
45°	1554	2144	2370	2167	2006	1196
55°	1022	1460	1572	1426	1323	913
65°	523	908	981	885	783	527
75°	193	547	561	483	404	212
85°	34	344	282	220	177	42
90°	3	293	206	150	116	3
95°	1	283	180	127	97	1
105°	1	257	166	108	83	1
115°	1	237	185	117	91	1
125°	1	195	215	143	112	1
135°	1	75	230	184	144	1
145°	1	7	178	208	180	1
155°	1	4	40	138	152	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4
2.5°	2789.0	2778.1	2759.1	2757.7	2745.5	2740.0	2741.4	2737.3	2733.2	2726.4	2715.5
5°	2779.5	2759.1	2727.8	2727.8	2734.6	2741.4	2757.7	2772.7	2776.8	2786.3	2784.9
7.5°	2761.8	2730.5	2700.5	2725.0	2749.5	2759.1	2778.1	2805.4	2847.5	2925.1	3001.4
10°	2733.2	2691.0	2681.5	2721.0	2753.6	2782.2	2825.8	2952.4	3069.4	3185.1	3260.0
12.5°	2700.5	2648.8	2662.4	2712.8	2789.0	2843.5	2955.1	3122.5	3215.1	3349.8	3460.1
15°	2651.5	2602.5	2627.0	2701.9	2861.2	2978.2	3040.8	3245.0	3393.4	3505.0	3628.9
17.5°	2598.5	2554.9	2588.9	2721.0	2937.4	3050.4	3151.1	3324.0	3466.9	3631.6	3748.6
20°	2539.9	2501.8	2545.4	2745.5	2974.1	3089.8	3201.4	3366.1	3555.3	3725.5	3826.2
22.5°	2471.9	2437.8	2504.5	2756.3	2987.7	3103.4	3212.3	3404.3	3600.3	3740.5	3826.2
25°	2398.4	2364.3	2455.5	2734.6	2974.1	3080.3	3197.4	3424.7	3585.3	3695.5	3801.7
27.5°	2319.4	2281.3	2418.8	2689.7	2919.7	3039.5	3171.5	3385.2	3511.8	3634.3	3741.8
30°	2222.8	2188.7	2354.8	2624.3	2843.5	2985.0	3098.0	3289.9	3411.1	3532.2	3615.2
32.5°	2126.1	2093.5	2277.2	2531.8	2756.3	2889.7	2998.6	3148.4	3285.8	3379.8	3431.5
35°	2021.3	1984.6	2187.4	2418.8	2658.3	2774.0	2865.2	3001.4	3117.1	3186.5	3236.8
37.5°	1916.5	1877.0	2073.0	2300.4	2529.0	2635.2	2711.4	2848.9	2937.4	2994.6	3036.7
40°	1798.1	1757.3	1954.6	2167.0	2394.3	2469.1	2548.1	2670.6	2735.9	2782.2	2802.6
42.5°	1678.3	1637.5	1826.7	2026.8	2229.6	2303.1	2384.8	2481.4	2545.4	2572.6	2572.6
45°	1554.4	1515.0	1694.6	1887.9	2059.4	2143.8	2216.0	2293.6	2346.6	2368.4	2369.8
47.5°	1425.1	1392.5	1564.0	1739.6	1900.2	1973.7	2029.5	2104.4	2150.6	2156.1	2154.7
50°	1293.1	1264.5	1418.3	1591.2	1734.1	1799.5	1848.5	1917.9	1954.6	1953.3	1946.5
52.5°	1154.3	1136.6	1279.5	1437.4	1566.7	1625.2	1668.8	1730.0	1760.0	1760.0	1754.5
55°	1022.2	1011.3	1135.2	1287.7	1408.8	1460.5	1501.4	1555.8	1580.3	1580.3	1572.1
57.5°	888.8	887.5	1003.2	1139.3	1255.0	1301.3	1344.8	1392.5	1414.2	1414.2	1400.6
60°	758.2	765.0	879.3	1004.5	1110.7	1155.6	1193.7	1240.0	1253.6	1256.4	1253.6
62.5°	637.0	654.7	763.6	877.9	984.1	1022.2	1056.3	1101.2	1112.1	1116.2	1109.3
65°	522.7	549.9	660.2	769.1	868.4	907.9	937.8	969.1	978.7	982.8	981.4
67.5°	428.8	457.3	567.6	675.1	766.3	797.6	827.6	854.8	856.2	863.0	857.5
70°	332.1	375.7	485.9	588.0	673.8	702.4	726.9	745.9	750.0	751.4	750.0
72.5°	255.9	307.6	412.4	513.2	590.7	618.0	637.0	652.0	652.0	653.4	649.3
75°	193.3	255.9	358.0	450.5	520.0	547.2	562.2	571.7	566.2	564.9	560.8
77.5°	140.2	212.3	309.0	396.1	461.4	481.9	495.5	496.8	488.7	487.3	479.1
80°	96.6	172.9	266.8	348.5	408.3	428.8	435.6	430.1	423.3	415.2	404.3
82.5°	64.0	140.2	231.4	309.0	364.8	381.1	386.6	378.4	368.9	355.3	337.6
85°	34.0	113.0	201.5	276.3	329.4	344.4	347.1	332.1	317.2	299.5	281.8
87.5°	15.0	92.6	179.7	254.5	300.8	311.7	313.1	296.7	277.7	257.3	235.5
90°	2.7	78.9	166.1	238.2	283.1	292.6	292.6	270.9	251.8	230.0	205.5
92.5°	1.4	74.9	162.0	232.8	277.7	287.2	285.8	262.7	239.6	215.1	190.6
95°	1.4	65.3	152.4	227.3	273.6	283.1	281.8	257.3	232.8	206.9	179.7
97.5°	1.4	54.4	142.9	217.8	266.8	276.3	276.3	253.2	228.7	201.5	172.9
100°	0.0	42.2	132.0	208.3	257.3	269.5	270.9	249.1	223.2	196.0	168.8
102.5°	0.0	28.6	122.5	200.1	250.5	262.7	265.4	247.7	220.5	193.3	166.1
105°	1.4	17.7	110.3	190.6	243.6	257.3	261.3	246.4	219.1	193.3	166.1
107.5°	1.4	12.3	98.0	181.0	238.2	253.2	258.6	246.4	220.5	194.6	168.8
110°	1.4	10.9	83.0	171.5	231.4	247.7	255.9	247.7	223.2	198.7	172.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.4	8.2	62.6	159.3	223.2	242.3	253.2	249.1	227.3	202.8	178.3
115°	1.4	6.8	42.2	147.0	215.1	236.8	250.5	250.5	231.4	208.3	185.1
117.5°	1.4	6.8	28.6	130.7	205.5	230.0	245.0	251.8	236.8	213.7	193.3
120°	1.4	5.4	13.6	111.6	193.3	220.5	239.6	251.8	240.9	220.5	200.1
122.5°	1.4	5.4	10.9	85.8	179.7	209.6	231.4	250.5	245.0	226.0	208.3
125°	1.4	4.1	9.5	57.2	162.0	194.6	220.5	246.4	246.4	231.4	215.1
127.5°	1.4	4.1	8.2	40.8	138.8	178.3	205.5	239.6	246.4	235.5	221.9
130°	1.4	4.1	6.8	12.3	106.2	155.2	187.8	228.7	243.6	238.2	226.0
132.5°	1.4	2.7	6.8	9.5	68.1	121.1	163.3	211.0	235.5	238.2	230.0
135°	1.4	2.7	5.4	8.2	49.0	74.9	130.7	189.2	220.5	230.0	230.0
137.5°	1.4	2.7	5.4	6.8	21.8	55.8	81.7	163.3	201.5	219.1	223.2
140°	1.4	2.7	4.1	5.4	8.2	29.9	58.5	129.3	178.3	202.8	213.7
142.5°	1.4	2.7	4.1	5.4	6.8	6.8	35.4	74.9	149.7	181.0	198.7
145°	1.4	2.7	2.7	4.1	5.4	6.8	6.8	57.2	107.5	155.2	178.3
147.5°	1.4	1.4	2.7	4.1	5.4	5.4	5.4	25.9	64.0	118.4	152.4
150°	1.4	1.4	2.7	2.7	4.1	4.1	5.4	5.4	42.2	66.7	113.0
152.5°	1.4	1.4	2.7	2.7	4.1	4.1	4.1	5.4	5.4	44.9	62.6
155°	1.4	1.4	2.7	2.7	2.7	4.1	4.1	4.1	4.1	5.4	39.5
157.5°	1.4	1.4	2.7	2.7	2.7	2.7	2.7	4.1	4.1	5.4	5.4
160°	1.4	2.7	2.7	2.7	2.7	2.7	2.7	4.1	4.1	4.1	5.4
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4	2775.4
2.5°	2729.1	2749.5	2749.5	2767.2	2776.8	2774.0	2776.8	2782.2	2765.9	2760.4
5°	2814.9	2855.7	2876.1	2922.4	2933.3	2953.7	2960.5	2983.7	2989.1	2972.8
7.5°	3084.4	3168.8	3223.2	3279.0	3303.5	3315.8	3337.6	3352.5	3375.7	3358.0
10°	3337.6	3439.7	3517.2	3578.5	3593.5	3605.7	3631.6	3668.3	3665.6	3662.9
12.5°	3556.7	3646.5	3741.8	3830.3	3875.2	3884.8	3922.9	3967.8	3975.9	3939.2
15°	3737.7	3863.0	3970.5	4064.4	4082.1	4106.6	4135.2	4150.2	4143.4	4148.8
17.5°	3888.8	3995.0	4071.2	4121.6	4132.5	4151.5	4177.4	4196.5	4199.2	4200.5
20°	3948.7	4019.5	4093.0	4162.4	4184.2	4203.3	4234.6	4250.9	4248.2	4240.0
22.5°	3937.8	4041.3	4109.3	4166.5	4188.3	4206.0	4233.2	4244.1	4240.0	4231.8
25°	3921.5	4010.0	4069.9	4099.8	4099.8	4113.4	4106.6	4098.5	4088.9	4090.3
27.5°	3843.9	3895.6	3936.5	3970.5	3974.6	3975.9	3971.9	3963.7	3958.3	3946.0
30°	3686.0	3748.6	3767.7	3765.0	3759.5	3758.2	3741.8	3729.6	3714.6	3716.0
32.5°	3500.9	3514.5	3522.7	3499.5	3485.9	3483.2	3468.2	3447.8	3427.4	3405.6
35°	3262.7	3253.2	3234.1	3217.8	3206.9	3190.6	3168.8	3148.4	3122.5	3123.9
37.5°	3032.7	3002.7	2975.5	2930.6	2922.4	2884.3	2842.1	2809.4	2767.2	2744.1
40°	2793.1	2763.2	2729.1	2680.1	2658.3	2623.0	2576.7	2522.2	2488.2	2474.6
42.5°	2564.4	2527.7	2488.2	2429.7	2402.4	2373.9	2324.9	2271.8	2247.3	2243.2
45°	2341.2	2299.0	2260.9	2195.6	2167.0	2132.9	2082.6	2049.9	2014.5	2006.3
47.5°	2126.1	2089.4	2030.9	1980.5	1953.3	1924.7	1873.0	1843.0	1817.1	1807.6
50°	1917.9	1882.5	1837.6	1781.8	1755.9	1728.7	1691.9	1663.3	1633.4	1623.9
52.5°	1731.4	1696.0	1649.7	1606.2	1580.3	1564.0	1529.9	1497.3	1474.1	1459.2
55°	1551.7	1519.1	1476.9	1436.0	1426.5	1404.7	1365.2	1336.7	1321.7	1323.0
57.5°	1387.0	1358.4	1325.8	1286.3	1271.3	1250.9	1225.0	1191.0	1173.3	1167.9
60°	1237.3	1210.1	1182.8	1152.9	1133.8	1118.9	1083.5	1056.3	1033.1	1030.4
62.5°	1094.4	1074.0	1050.8	1020.9	1004.5	988.2	956.9	931.0	913.3	907.9
65°	970.5	952.8	925.6	901.1	884.8	868.4	838.5	812.6	797.6	782.7
67.5°	848.0	833.0	812.6	786.8	771.8	755.4	729.6	701.0	683.3	679.2
70°	739.1	722.8	706.4	679.2	665.6	656.1	627.5	598.9	585.3	579.9
72.5°	645.2	627.5	604.4	585.3	577.1	559.4	532.2	513.2	495.5	484.6
75°	547.2	536.3	520.0	498.2	483.2	471.0	449.2	430.1	415.2	404.3
77.5°	466.9	453.3	439.7	417.9	407.0	396.1	373.0	356.6	341.7	336.2
80°	392.0	379.8	360.7	344.4	334.8	325.3	307.6	289.9	279.0	273.6
82.5°	324.0	313.1	298.1	284.5	273.6	266.8	250.5	235.5	226.0	217.8
85°	268.1	254.5	240.9	228.7	220.5	215.1	202.8	191.9	179.7	177.0
87.5°	220.5	209.6	197.4	185.1	179.7	172.9	162.0	153.8	144.3	140.2
90°	189.2	175.6	164.7	155.2	149.7	145.6	137.5	126.6	119.8	115.7
92.5°	171.5	159.3	149.7	140.2	136.1	132.0	122.5	114.3	107.5	102.1
95°	160.6	148.4	138.8	130.7	126.6	123.9	115.7	107.5	100.7	96.6
97.5°	152.4	138.8	129.3	122.5	118.4	115.7	108.9	102.1	95.3	91.2
100°	145.6	132.0	122.5	115.7	113.0	110.3	103.4	96.6	91.2	87.1
102.5°	142.9	127.9	118.4	113.0	110.3	107.5	100.7	95.3	88.5	84.4
105°	142.9	126.6	117.1	110.3	107.5	104.8	99.4	93.9	87.1	83.0
107.5°	145.6	127.9	117.1	111.6	108.9	106.2	99.4	93.9	87.1	83.0
110°	149.7	132.0	119.8	113.0	110.3	107.5	100.7	95.3	88.5	84.4



TEST NUMBER: P232513

CATALOG NUMBER: 8SKB1-LD5-10-N-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	155.2	136.1	123.9	115.7	113.0	110.3	103.4	98.0	91.2	87.1
115°	162.0	141.6	129.3	119.8	117.1	114.3	107.5	100.7	95.3	91.2
117.5°	170.1	149.7	134.8	125.2	122.5	118.4	111.6	104.8	99.4	95.3
120°	178.3	159.3	142.9	132.0	127.9	123.9	117.1	110.3	103.4	99.4
122.5°	187.8	167.4	151.1	140.2	136.1	132.0	123.9	117.1	110.3	104.8
125°	197.4	178.3	160.6	148.4	142.9	138.8	130.7	122.5	117.1	111.6
127.5°	205.5	187.8	170.1	157.9	152.4	147.0	138.8	130.7	123.9	119.8
130°	212.3	197.4	181.0	167.4	162.0	157.9	147.0	138.8	132.0	127.9
132.5°	219.1	205.5	191.9	178.3	172.9	167.4	157.9	148.4	141.6	136.1
135°	223.2	212.3	201.5	189.2	183.8	177.0	167.4	157.9	149.7	144.3
137.5°	223.2	217.8	208.3	198.7	193.3	187.8	177.0	167.4	159.3	155.2
140°	216.4	217.8	213.7	206.9	201.5	197.4	187.8	177.0	168.8	164.7
142.5°	206.9	211.0	213.7	209.6	206.9	204.2	196.0	186.5	178.3	172.9
145°	191.9	200.1	205.5	209.6	208.3	206.9	200.1	193.3	185.1	179.7
147.5°	172.9	185.1	191.9	201.5	204.2	204.2	201.5	196.0	189.2	185.1
150°	145.6	163.3	175.6	185.1	189.2	194.6	194.6	190.6	186.5	182.4
152.5°	103.4	132.0	149.7	163.3	168.8	174.2	181.0	178.3	172.9	170.1
155°	58.5	72.1	108.9	130.7	137.5	144.3	155.2	157.9	156.5	152.4
157.5°	29.9	49.0	61.3	70.8	74.9	85.8	107.5	122.5	121.1	123.9
160°	6.8	8.2	23.1	43.6	49.0	51.7	57.2	61.3	61.3	58.5
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)