

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: P232515

Luminaire Tested: **8SKB1-LD5-10-N-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232515
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-L850-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11118.0 lumens
Efficiency: N/A
Efficacy: 143.6 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

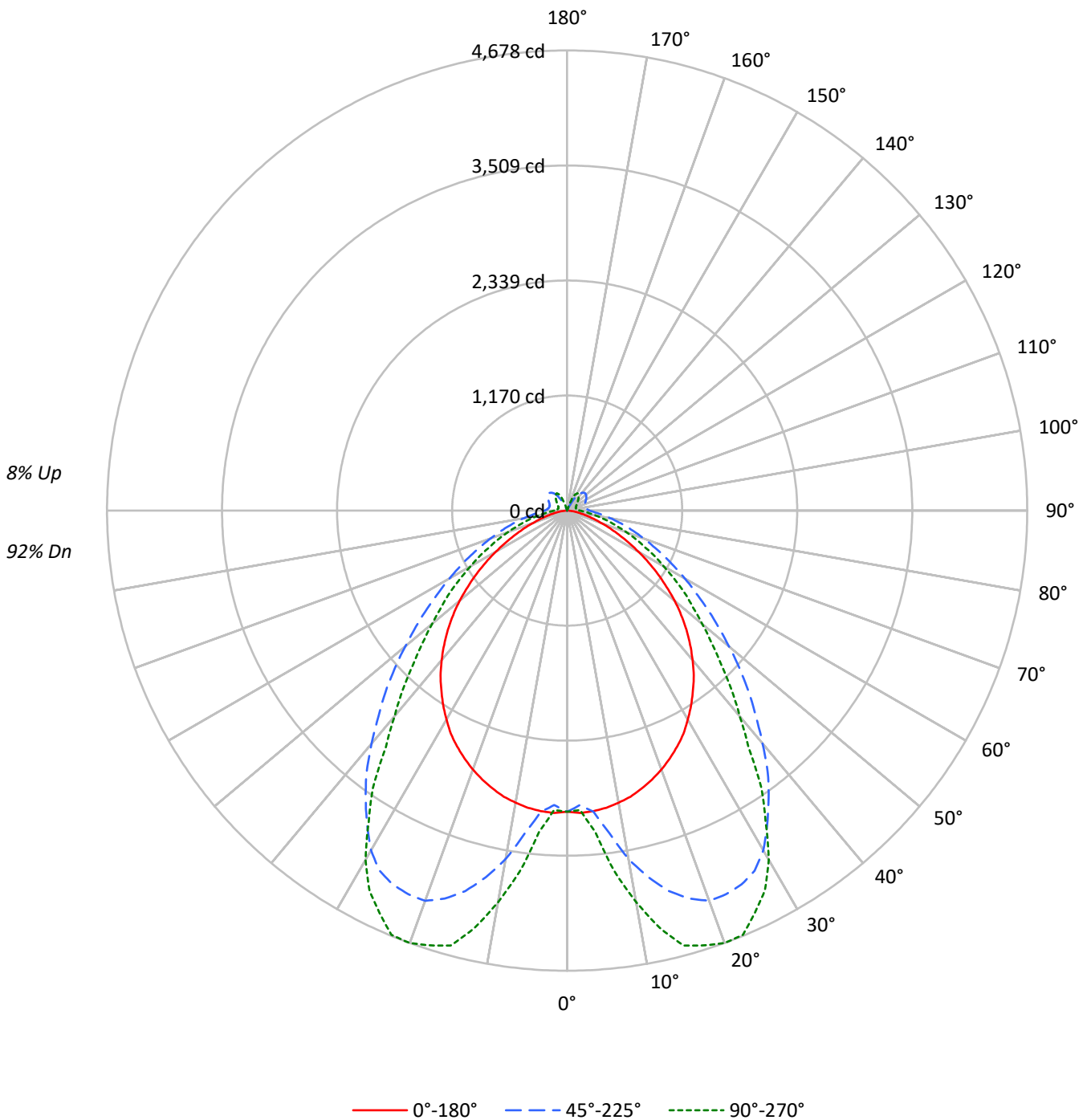
Input Watts (W): 77.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	16480	16480	16480
5°	16515	15450	16079
10°	16375	17092	18317
15°	16143	18167	19430
20°	15840	18461	18806
25°	15451	17833	17356
30°	14926	16623	15224
35°	14287	14704	12463
40°	13524	12676	9693
45°	12594	10752	7776
50°	11448	8928	6275
55°	10059	7348	5137
60°	8469	6019	4051
65°	6812	4882	3140
70°	5241	3902	2394
75°	3904	3081	1732
80°	2738	2373	1228
85°	1635	1790	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	2.8
10°-20°	1090.8	9.8
20°-30°	1795.9	16.2
30°-40°	2017.6	18.1
40°-50°	1795.4	16.1
50°-60°	1388.5	12.5
60°-70°	942.9	8.5
70°-80°	562.7	5.1
80°-90°	301.8	2.7
90°-100°	198.6	1.8
100°-110°	168.5	1.5
110°-120°	155.9	1.4
120°-130°	145.2	1.3
130°-140°	123.1	1.1
140°-150°	84.1	0.8
150°-160°	32.5	0.3
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	3200.2	28.8
0°-40°	5217.8	46.9
0°-60°	8401.7	75.6
0°-90°	10209.1	91.8
90°-120°	522.9	4.7
90°-150°	875.4	7.9
90°-180°	909.0	8.2
0°-180°	11118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3062	3062	3062	3062	3062	
5°	3067	3025	3073	3236	3280	291
15°	2926	3286	4004	4504	4577	825
25°	2646	3398	4194	4523	4513	1217
35°	2230	3061	3571	3538	3447	1393
45°	1715	2365	2615	2391	2214	1319
55°	1128	1611	1734	1574	1460	1007
65°	577	1002	1083	976	864	581
75°	213	604	619	533	446	234
85°	38	380	311	243	195	46
90°	3	323	227	165	128	3
95°	2	312	198	140	107	1
105°	2	284	183	119	92	1
115°	2	261	204	129	101	1
125°	2	215	237	158	123	1
135°	2	83	254	203	159	1
145°	2	8	197	230	198	1
155°	2	4	44	152	168	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232515

CATALOG NUMBER: 8SKB1-LD5-10-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1
2.5°	3077.1	3065.1	3044.1	3042.6	3029.1	3023.1	3024.6	3020.1	3015.6	3008.1	2996.0
5°	3066.6	3044.1	3009.6	3009.6	3017.1	3024.6	3042.6	3059.1	3063.6	3074.1	3072.6
7.5°	3047.1	3012.6	2979.5	3006.6	3033.6	3044.1	3065.1	3095.2	3141.7	3227.3	3311.4
10°	3015.6	2969.0	2958.5	3002.0	3038.1	3069.6	3117.7	3257.3	3386.5	3514.2	3596.7
12.5°	2979.5	2922.5	2937.5	2993.0	3077.1	3137.2	3260.4	3445.1	3547.2	3695.9	3817.5
15°	2925.5	2871.4	2898.4	2981.0	3156.7	3285.9	3355.0	3580.2	3743.9	3867.1	4003.7
17.5°	2866.9	2818.8	2856.4	3002.0	3240.8	3365.5	3476.6	3667.3	3825.0	4006.7	4135.9
20°	2802.3	2760.3	2808.3	3029.1	3281.4	3409.0	3532.2	3713.9	3922.6	4110.4	4221.5
22.5°	2727.2	2689.7	2763.3	3041.1	3296.4	3424.0	3544.2	3755.9	3972.2	4126.9	4221.5
25°	2646.1	2608.6	2709.2	3017.1	3281.4	3398.5	3527.7	3778.5	3955.7	4077.3	4194.5
27.5°	2559.0	2517.0	2668.7	2967.5	3221.3	3353.5	3499.1	3734.9	3874.6	4009.7	4128.4
30°	2452.4	2414.9	2598.1	2895.4	3137.2	3293.4	3418.0	3629.8	3763.4	3897.1	3988.7
32.5°	2345.8	2309.7	2512.5	2793.3	3041.1	3188.3	3308.4	3473.6	3625.3	3728.9	3786.0
35°	2230.1	2189.6	2413.4	2668.7	2933.0	3060.6	3161.2	3311.4	3439.1	3515.7	3571.2
37.5°	2114.5	2070.9	2287.2	2538.0	2790.3	2907.4	2991.5	3143.2	3240.8	3303.9	3350.5
40°	1983.8	1938.8	2156.5	2390.8	2641.6	2724.2	2811.3	2946.5	3018.6	3069.6	3092.2
42.5°	1851.7	1806.6	2015.4	2236.1	2459.9	2541.0	2631.1	2737.7	2808.3	2838.4	2838.4
45°	1715.0	1671.5	1869.7	2083.0	2272.2	2365.3	2444.9	2530.5	2589.1	2613.1	2614.6
47.5°	1572.4	1536.3	1725.5	1919.3	2096.5	2177.6	2239.1	2321.7	2372.8	2378.8	2377.3
50°	1426.7	1395.1	1564.8	1755.6	1913.3	1985.3	2039.4	2116.0	2156.5	2155.0	2147.5
52.5°	1273.5	1254.0	1411.7	1585.9	1728.5	1793.1	1841.2	1908.8	1941.8	1941.8	1935.8
55°	1127.8	1115.8	1252.5	1420.7	1554.3	1611.4	1656.5	1716.5	1743.6	1743.6	1734.5
57.5°	980.7	979.2	1106.8	1257.0	1384.6	1435.7	1483.8	1536.3	1560.3	1560.3	1545.3
60°	836.5	844.0	970.1	1108.3	1225.4	1275.0	1317.1	1368.1	1383.1	1386.1	1383.1
62.5°	702.8	722.4	842.5	968.6	1085.8	1127.8	1165.4	1214.9	1226.9	1231.5	1223.9
65°	576.7	606.7	728.4	848.5	958.1	1001.7	1034.7	1069.3	1079.8	1084.3	1082.8
67.5°	473.1	504.6	626.2	744.9	845.5	880.0	913.1	943.1	944.6	952.1	946.1
70°	366.4	414.5	536.1	648.8	743.4	774.9	801.9	823.0	827.5	829.0	827.5
72.5°	282.3	339.4	455.0	566.2	651.8	681.8	702.8	719.3	719.3	720.9	716.3
75°	213.3	282.3	395.0	497.1	573.7	603.7	620.2	630.7	624.7	623.2	618.7
77.5°	154.7	234.3	340.9	437.0	509.1	531.6	546.6	548.1	539.1	537.6	528.6
80°	106.6	190.7	294.3	384.5	450.5	473.1	480.6	474.6	467.1	458.0	446.0
82.5°	70.6	154.7	255.3	340.9	402.5	420.5	426.5	417.5	407.0	392.0	372.4
85°	37.5	124.6	222.3	304.9	363.4	379.9	383.0	366.4	349.9	330.4	310.9
87.5°	16.5	102.1	198.2	280.8	331.9	343.9	345.4	327.4	306.4	283.8	259.8
90°	3.0	87.1	183.2	262.8	312.4	322.9	322.9	298.9	277.8	253.8	226.8
92.5°	1.5	82.6	178.7	256.8	306.4	316.9	315.4	289.8	264.3	237.3	210.2
95°	1.5	72.1	168.2	250.8	301.9	312.4	310.9	283.8	256.8	228.3	198.2
97.5°	1.5	60.1	157.7	240.3	294.3	304.9	304.9	279.3	252.3	222.3	190.7
100°	0.0	46.6	145.7	229.8	283.8	297.4	298.9	274.8	246.3	216.3	186.2
102.5°	0.0	31.5	135.2	220.8	276.3	289.8	292.8	273.3	243.3	213.3	183.2
105°	1.5	19.5	121.6	210.2	268.8	283.8	288.3	271.8	241.8	213.3	183.2
107.5°	1.5	13.5	108.1	199.7	262.8	279.3	285.3	271.8	243.3	214.8	186.2
110°	1.5	12.0	91.6	189.2	255.3	273.3	282.3	273.3	246.3	219.3	190.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.5	9.0	69.1	175.7	246.3	267.3	279.3	274.8	250.8	223.8	196.7
115°	1.5	7.5	46.6	162.2	237.3	261.3	276.3	276.3	255.3	229.8	204.2
117.5°	1.5	7.5	31.5	144.2	226.8	253.8	270.3	277.8	261.3	235.8	213.3
120°	1.5	6.0	15.0	123.1	213.3	243.3	264.3	277.8	265.8	243.3	220.8
122.5°	1.5	6.0	12.0	94.6	198.2	231.3	255.3	276.3	270.3	249.3	229.8
125°	1.5	4.5	10.5	63.1	178.7	214.8	243.3	271.8	271.8	255.3	237.3
127.5°	1.5	4.5	9.0	45.1	153.2	196.7	226.8	264.3	271.8	259.8	244.8
130°	1.5	4.5	7.5	13.5	117.1	171.2	207.2	252.3	268.8	262.8	249.3
132.5°	1.5	3.0	7.5	10.5	75.1	133.7	180.2	232.8	259.8	262.8	253.8
135°	1.5	3.0	6.0	9.0	54.1	82.6	144.2	208.7	243.3	253.8	253.8
137.5°	1.5	3.0	6.0	7.5	24.0	61.6	90.1	180.2	222.3	241.8	246.3
140°	1.5	3.0	4.5	6.0	9.0	33.0	64.6	142.7	196.7	223.8	235.8
142.5°	1.5	3.0	4.5	6.0	7.5	7.5	39.0	82.6	165.2	199.7	219.3
145°	1.5	3.0	3.0	4.5	6.0	7.5	7.5	63.1	118.6	171.2	196.7
147.5°	1.5	1.5	3.0	4.5	6.0	6.0	6.0	28.5	70.6	130.7	168.2
150°	1.5	1.5	3.0	3.0	4.5	4.5	6.0	6.0	46.6	73.6	124.6
152.5°	1.5	1.5	3.0	3.0	4.5	4.5	4.5	6.0	6.0	49.6	69.1
155°	1.5	1.5	3.0	3.0	3.0	4.5	4.5	4.5	4.5	6.0	43.6
157.5°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	4.5	4.5	6.0	6.0
160°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5	6.0
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°	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1	3062.1
2.5°	3011.1	3033.6	3033.6	3053.1	3063.6	3060.6	3063.6	3069.6	3051.6	3045.6
5°	3105.7	3150.7	3173.2	3224.3	3236.3	3258.8	3266.4	3291.9	3297.9	3279.9
7.5°	3403.0	3496.1	3556.2	3617.8	3644.8	3658.3	3682.3	3698.9	3724.4	3704.9
10°	3682.3	3795.0	3880.6	3948.2	3964.7	3978.2	4006.7	4047.3	4044.3	4041.3
12.5°	3924.1	4023.3	4128.4	4226.0	4275.6	4286.1	4328.1	4377.7	4386.7	4346.1
15°	4123.9	4262.0	4380.7	4484.3	4503.8	4530.9	4562.4	4578.9	4571.4	4577.4
17.5°	4290.6	4407.7	4491.8	4547.4	4559.4	4580.4	4608.9	4630.0	4633.0	4634.5
20°	4356.6	4434.7	4515.8	4592.4	4616.5	4637.5	4672.0	4690.0	4687.0	4678.0
22.5°	4344.6	4458.8	4533.9	4596.9	4621.0	4640.5	4670.5	4682.5	4678.0	4669.0
25°	4326.6	4424.2	4490.3	4523.3	4523.3	4538.4	4530.9	4521.8	4511.3	4512.8
27.5°	4241.0	4298.1	4343.1	4380.7	4385.2	4386.7	4382.2	4373.2	4367.2	4353.6
30°	4066.8	4135.9	4156.9	4153.9	4147.9	4146.4	4128.4	4114.9	4098.3	4099.8
32.5°	3862.6	3877.6	3886.6	3861.1	3846.0	3843.0	3826.5	3804.0	3781.5	3757.4
35°	3599.8	3589.2	3568.2	3550.2	3538.2	3520.2	3496.1	3473.6	3445.1	3446.6
37.5°	3346.0	3312.9	3282.9	3233.3	3224.3	3182.3	3135.7	3099.7	3053.1	3027.6
40°	3081.6	3048.6	3011.1	2957.0	2933.0	2893.9	2842.9	2782.8	2745.2	2730.2
42.5°	2829.3	2788.8	2745.2	2680.7	2650.6	2619.1	2565.0	2506.5	2479.4	2474.9
45°	2583.1	2536.5	2494.4	2422.4	2390.8	2353.3	2297.7	2261.7	2222.6	2213.6
47.5°	2345.8	2305.2	2240.6	2185.1	2155.0	2123.5	2066.4	2033.4	2004.9	1994.4
50°	2116.0	2077.0	2027.4	1965.8	1937.3	1907.3	1866.7	1835.2	1802.1	1791.6
52.5°	1910.3	1871.2	1820.1	1772.1	1743.6	1725.5	1688.0	1652.0	1626.4	1609.9
55°	1712.0	1676.0	1629.4	1584.4	1573.9	1549.8	1506.3	1474.7	1458.2	1459.7
57.5°	1530.3	1498.8	1462.7	1419.2	1402.7	1380.1	1351.6	1314.1	1294.5	1288.5
60°	1365.1	1335.1	1305.0	1272.0	1251.0	1234.5	1195.4	1165.4	1139.8	1136.8
62.5°	1207.4	1184.9	1159.4	1126.3	1108.3	1090.3	1055.7	1027.2	1007.7	1001.7
65°	1070.8	1051.2	1021.2	994.2	976.2	958.1	925.1	896.6	880.0	863.5
67.5°	935.6	919.1	896.6	868.0	851.5	833.5	805.0	773.4	753.9	749.4
70°	815.5	797.4	779.4	749.4	734.4	723.9	692.3	660.8	645.8	639.8
72.5°	711.8	692.3	666.8	645.8	636.8	617.2	587.2	566.2	546.6	534.6
75°	603.7	591.7	573.7	549.6	533.1	519.6	495.6	474.6	458.0	446.0
77.5°	515.1	500.1	485.1	461.0	449.0	437.0	411.5	393.5	376.9	370.9
80°	432.5	419.0	398.0	379.9	369.4	358.9	339.4	319.9	307.9	301.9
82.5°	357.4	345.4	328.9	313.9	301.9	294.3	276.3	259.8	249.3	240.3
85°	295.8	280.8	265.8	252.3	243.3	237.3	223.8	211.8	198.2	195.2
87.5°	243.3	231.3	217.8	204.2	198.2	190.7	178.7	169.7	159.2	154.7
90°	208.7	193.7	181.7	171.2	165.2	160.7	151.7	139.7	132.2	127.7
92.5°	189.2	175.7	165.2	154.7	150.2	145.7	135.2	126.1	118.6	112.6
95°	177.2	163.7	153.2	144.2	139.7	136.7	127.7	118.6	111.1	106.6
97.5°	168.2	153.2	142.7	135.2	130.7	127.7	120.1	112.6	105.1	100.6
100°	160.7	145.7	135.2	127.7	124.6	121.6	114.1	106.6	100.6	96.1
102.5°	157.7	141.2	130.7	124.6	121.6	118.6	111.1	105.1	97.6	93.1
105°	157.7	139.7	129.2	121.6	118.6	115.6	109.6	103.6	96.1	91.6
107.5°	160.7	141.2	129.2	123.1	120.1	117.1	109.6	103.6	96.1	91.6
110°	165.2	145.7	132.2	124.6	121.6	118.6	111.1	105.1	97.6	93.1



TEST NUMBER: P232515

CATALOG NUMBER: 8SKB1-LD5-10-N-UNV-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	171.2	150.2	136.7	127.7	124.6	121.6	114.1	108.1	100.6	96.1
115°	178.7	156.2	142.7	132.2	129.2	126.1	118.6	111.1	105.1	100.6
117.5°	187.7	165.2	148.7	138.2	135.2	130.7	123.1	115.6	109.6	105.1
120°	196.7	175.7	157.7	145.7	141.2	136.7	129.2	121.6	114.1	109.6
122.5°	207.2	184.7	166.7	154.7	150.2	145.7	136.7	129.2	121.6	115.6
125°	217.8	196.7	177.2	163.7	157.7	153.2	144.2	135.2	129.2	123.1
127.5°	226.8	207.2	187.7	174.2	168.2	162.2	153.2	144.2	136.7	132.2
130°	234.3	217.8	199.7	184.7	178.7	174.2	162.2	153.2	145.7	141.2
132.5°	241.8	226.8	211.8	196.7	190.7	184.7	174.2	163.7	156.2	150.2
135°	246.3	234.3	222.3	208.7	202.7	195.2	184.7	174.2	165.2	159.2
137.5°	246.3	240.3	229.8	219.3	213.3	207.2	195.2	184.7	175.7	171.2
140°	238.8	240.3	235.8	228.3	222.3	217.8	207.2	195.2	186.2	181.7
142.5°	228.3	232.8	235.8	231.3	228.3	225.3	216.3	205.7	196.7	190.7
145°	211.8	220.8	226.8	231.3	229.8	228.3	220.8	213.3	204.2	198.2
147.5°	190.7	204.2	211.8	222.3	225.3	225.3	222.3	216.3	208.7	204.2
150°	160.7	180.2	193.7	204.2	208.7	214.8	214.8	210.2	205.7	201.2
152.5°	114.1	145.7	165.2	180.2	186.2	192.2	199.7	196.7	190.7	187.7
155°	64.6	79.6	120.1	144.2	151.7	159.2	171.2	174.2	172.7	168.2
157.5°	33.0	54.1	67.6	78.1	82.6	94.6	118.6	135.2	133.7	136.7
160°	7.5	9.0	25.5	48.1	54.1	57.1	63.1	67.6	67.6	64.6
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)