

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: P232518

Luminaire Tested: **8SKB1-LD5-12-N-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232518
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-LD5-12-N-UNV-L850-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

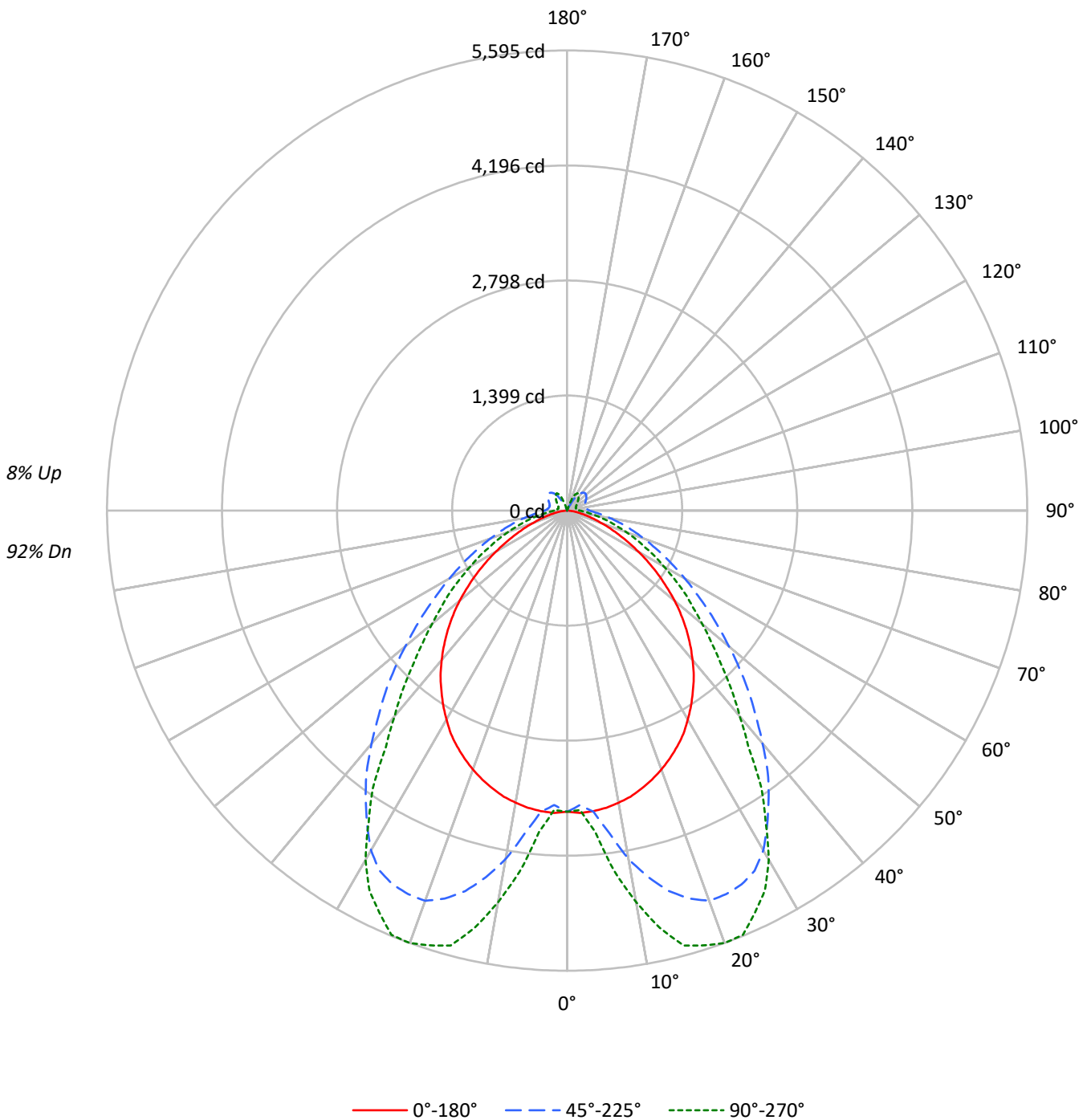
Lumens per Lamp: N/A
Luminaire Lumens: 13297.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.53 / 1.51
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')
CIE Type: Direct

Input Watts (W): 94.3
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°	19710	19710	19710
5°	19751	18478	19230
10°	19584	20442	21907
15°	19306	21727	23238
20°	18944	22079	22493
25°	18479	21328	20758
30°	17851	19881	18208
35°	17088	17586	14906
40°	16175	15160	11592
45°	15063	12860	9300
50°	13692	10678	7505
55°	12031	8788	6144
60°	10129	7198	4845
65°	8146	5839	3756
70°	6268	4666	2863
75°	4667	3686	2072
80°	3275	2838	1469
85°	1957	2141	1006



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	2.8
10°-20°	1304.6	9.8
20°-30°	2147.9	16.2
30°-40°	2413.0	18.1
40°-50°	2147.3	16.1
50°-60°	1660.6	12.5
60°-70°	1127.7	8.5
70°-80°	673.0	5.1
80°-90°	361.0	2.7
90°-100°	237.5	1.8
100°-110°	201.5	1.5
110°-120°	186.4	1.4
120°-130°	173.7	1.3
130°-140°	147.3	1.1
140°-150°	100.6	0.8
150°-160°	38.9	0.3
160°-170°	1.2	0.0
170°-180°	0.0	0.0
0°-30°	3827.4	28.8
0°-40°	6240.4	46.9
0°-60°	10048.3	75.6
0°-90°	12210.0	91.8
90°-120°	625.4	4.7
90°-150°	1046.9	7.9
90°-180°	1087.0	8.2
0°-180°	13297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3668	3617	3675	3871	3923	348
15°	3499	3930	4788	5386	5474	986
25°	3165	4065	5016	5410	5397	1456
35°	2667	3660	4271	4232	4122	1666
45°	2051	2829	3127	2859	2648	1578
55°	1349	1927	2074	1882	1746	1205
65°	690	1198	1295	1168	1033	695
75°	255	722	740	638	533	279
85°	45	454	372	291	234	55
90°	4	386	271	198	153	4
95°	2	374	237	167	128	1
105°	2	340	219	142	110	1
115°	2	312	244	154	120	2
125°	2	257	284	189	147	2
135°	2	99	304	242	190	1
145°	2	9	235	275	237	1
155°	2	5	52	181	201	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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CATALOG NUMBER: 8SKB1-LD5-12-N-UNV-L850-CD2-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3680.2	3665.8	3640.7	3638.9	3622.7	3615.6	3617.4	3612.0	3606.6	3597.6	3583.2
5°	3667.6	3640.7	3599.4	3599.4	3608.4	3617.4	3638.9	3658.7	3664.1	3676.6	3674.8
7.5°	3644.3	3603.0	3563.5	3595.8	3628.1	3640.7	3665.8	3701.8	3757.5	3859.8	3960.4
10°	3606.6	3550.9	3538.3	3590.4	3633.5	3671.2	3728.7	3895.8	4050.2	4202.9	4301.7
12.5°	3563.5	3495.2	3513.2	3579.6	3680.2	3752.1	3899.3	4120.3	4242.4	4420.2	4565.7
15°	3498.8	3434.2	3466.5	3565.3	3775.4	3929.9	4012.5	4281.9	4477.7	4625.0	4788.4
17.5°	3428.8	3371.3	3416.2	3590.4	3876.0	4025.1	4158.0	4386.1	4574.7	4792.0	4946.5
20°	3351.5	3301.2	3358.7	3622.7	3924.5	4077.2	4224.4	4441.8	4691.4	4915.9	5048.8
22.5°	3261.7	3216.8	3304.8	3637.1	3942.4	4095.1	4238.8	4492.1	4750.7	4935.7	5048.8
25°	3164.7	3119.8	3240.2	3608.4	3924.5	4064.6	4219.0	4519.0	4730.9	4876.4	5016.5
27.5°	3060.6	3010.3	3191.7	3549.1	3852.6	4010.7	4184.9	4466.9	4633.9	4795.6	4937.5
30°	2933.0	2888.1	3107.3	3462.9	3752.1	3938.9	4087.9	4341.2	4501.0	4660.9	4770.5
32.5°	2805.5	2762.4	3004.9	3340.8	3637.1	3813.1	3956.8	4154.4	4335.8	4459.7	4528.0
35°	2667.2	2618.7	2886.3	3191.7	3507.8	3660.5	3780.8	3960.4	4113.1	4204.7	4271.1
37.5°	2528.9	2476.8	2735.5	3035.4	3337.2	3477.3	3577.8	3759.2	3876.0	3951.4	4007.1
40°	2372.7	2318.8	2579.2	2859.4	3159.3	3258.1	3362.3	3524.0	3610.2	3671.2	3698.2
42.5°	2214.6	2160.7	2410.4	2674.4	2942.0	3039.0	3146.8	3274.3	3358.7	3394.6	3394.6
45°	2051.2	1999.1	2236.1	2491.2	2717.5	2828.9	2924.1	3026.4	3096.5	3125.2	3127.0
47.5°	1880.5	1837.4	2063.7	2295.4	2507.4	2604.4	2678.0	2776.8	2837.8	2845.0	2843.2
50°	1706.3	1668.6	1871.5	2099.6	2288.2	2374.4	2439.1	2530.7	2579.2	2577.4	2568.4
52.5°	1523.1	1499.7	1688.3	1896.7	2067.3	2144.5	2202.0	2282.8	2322.4	2322.4	2315.2
55°	1348.9	1334.5	1498.0	1699.1	1859.0	1927.2	1981.1	2052.9	2085.3	2085.3	2074.5
57.5°	1172.9	1171.1	1323.7	1503.3	1656.0	1717.1	1774.6	1837.4	1866.2	1866.2	1848.2
60°	1000.4	1009.4	1160.3	1325.5	1465.6	1524.9	1575.2	1636.3	1654.2	1657.8	1654.2
62.5°	840.6	863.9	1007.6	1158.5	1298.6	1348.9	1393.8	1453.0	1467.4	1472.8	1463.8
65°	689.7	725.6	871.1	1014.8	1145.9	1198.0	1237.5	1278.8	1291.4	1296.8	1295.0
67.5°	565.8	603.5	749.0	890.9	1011.2	1052.5	1092.0	1128.0	1129.7	1138.7	1131.5
70°	438.2	495.7	641.2	775.9	889.1	926.8	959.1	984.3	989.7	991.4	989.7
72.5°	337.7	405.9	544.2	677.1	779.5	815.4	840.6	860.3	860.3	862.1	856.7
75°	255.0	337.7	472.4	594.5	686.1	722.0	741.8	754.4	747.2	745.4	740.0
77.5°	185.0	280.2	407.7	522.7	608.9	635.8	653.8	655.6	644.8	643.0	632.2
80°	127.5	228.1	352.0	459.8	538.8	565.8	574.8	567.6	558.6	547.8	533.4
82.5°	84.4	185.0	305.3	407.7	481.4	502.9	510.1	499.3	486.7	468.8	445.4
85°	44.9	149.1	265.8	364.6	434.7	454.4	458.0	438.2	418.5	395.1	371.8
87.5°	19.8	122.1	237.1	335.9	396.9	411.3	413.1	391.6	366.4	339.5	310.7
90°	3.6	104.2	219.1	314.3	373.6	386.2	386.2	357.4	332.3	303.5	271.2
92.5°	1.8	98.8	213.7	307.1	366.4	379.0	377.2	346.6	316.1	283.8	251.5
95°	1.8	86.2	201.2	299.9	361.0	373.6	371.8	339.5	307.1	273.0	237.1
97.5°	1.8	71.8	188.6	287.4	352.0	364.6	364.6	334.1	301.7	265.8	228.1
100°	0.0	55.7	174.2	274.8	339.5	355.6	357.4	328.7	294.6	258.6	222.7
102.5°	0.0	37.7	161.6	264.0	330.5	346.6	350.2	326.9	291.0	255.0	219.1
105°	1.8	23.3	145.5	251.5	321.5	339.5	344.9	325.1	289.2	255.0	219.1
107.5°	1.8	16.2	129.3	238.9	314.3	334.1	341.3	325.1	291.0	256.8	222.7
110°	1.8	14.4	109.6	226.3	305.3	326.9	337.7	326.9	294.6	262.2	228.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.8	10.8	82.6	210.1	294.6	319.7	334.1	328.7	299.9	267.6	235.3
115°	1.8	9.0	55.7	194.0	283.8	312.5	330.5	330.5	305.3	274.8	244.3
117.5°	1.8	9.0	37.7	172.4	271.2	303.5	323.3	332.3	312.5	282.0	255.0
120°	1.8	7.2	18.0	147.3	255.0	291.0	316.1	332.3	317.9	291.0	264.0
122.5°	1.8	7.2	14.4	113.2	237.1	276.6	305.3	330.5	323.3	298.2	274.8
125°	1.8	5.4	12.6	75.4	213.7	256.8	291.0	325.1	325.1	305.3	283.8
127.5°	1.8	5.4	10.8	53.9	183.2	235.3	271.2	316.1	325.1	310.7	292.8
130°	1.8	5.4	9.0	16.2	140.1	204.8	247.9	301.7	321.5	314.3	298.2
132.5°	1.8	3.6	9.0	12.6	89.8	159.9	215.5	278.4	310.7	314.3	303.5
135°	1.8	3.6	7.2	10.8	64.7	98.8	172.4	249.7	291.0	303.5	303.5
137.5°	1.8	3.6	7.2	9.0	28.7	73.6	107.8	215.5	265.8	289.2	294.6
140°	1.8	3.6	5.4	7.2	10.8	39.5	77.2	170.6	235.3	267.6	282.0
142.5°	1.8	3.6	5.4	7.2	9.0	9.0	46.7	98.8	197.6	238.9	262.2
145°	1.8	3.6	3.6	5.4	7.2	9.0	9.0	75.4	141.9	204.8	235.3
147.5°	1.8	1.8	3.6	5.4	7.2	7.2	7.2	34.1	84.4	156.3	201.2
150°	1.8	1.8	3.6	3.6	5.4	5.4	7.2	7.2	55.7	88.0	149.1
152.5°	1.8	1.8	3.6	3.6	5.4	5.4	5.4	7.2	7.2	59.3	82.6
155°	1.8	1.8	3.6	3.6	3.6	5.4	5.4	5.4	5.4	7.2	52.1
157.5°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	5.4	5.4	7.2	7.2
160°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4	7.2
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°	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3601.2	3628.1	3628.1	3651.5	3664.1	3660.5	3664.1	3671.2	3649.7	3642.5
5°	3714.3	3768.2	3795.2	3856.2	3870.6	3897.5	3906.5	3937.1	3944.2	3922.7
7.5°	4070.0	4181.3	4253.2	4326.8	4359.1	4375.3	4404.0	4423.8	4454.3	4431.0
10°	4404.0	4538.8	4641.1	4722.0	4741.7	4757.9	4792.0	4840.5	4836.9	4833.3
12.5°	4693.2	4811.8	4937.5	5054.2	5113.5	5126.1	5176.4	5235.6	5246.4	5197.9
15°	4932.1	5097.3	5239.2	5363.2	5386.5	5418.8	5456.6	5476.3	5467.3	5474.5
17.5°	5131.5	5271.6	5372.1	5438.6	5453.0	5478.1	5512.2	5537.4	5541.0	5542.8
20°	5210.5	5303.9	5400.9	5492.5	5521.2	5546.4	5587.7	5609.2	5605.6	5594.9
22.5°	5196.1	5332.6	5422.4	5497.9	5526.6	5550.0	5585.9	5600.3	5594.9	5584.1
25°	5174.6	5291.3	5370.4	5409.9	5409.9	5427.8	5418.8	5408.1	5395.5	5397.3
27.5°	5072.2	5140.5	5194.3	5239.2	5244.6	5246.4	5241.0	5230.3	5223.1	5206.9
30°	4863.9	4946.5	4971.6	4968.0	4960.8	4959.0	4937.5	4921.3	4901.6	4903.4
32.5°	4619.6	4637.5	4648.3	4617.8	4599.8	4596.2	4576.5	4549.5	4522.6	4493.9
35°	4305.3	4292.7	4267.5	4246.0	4231.6	4210.1	4181.3	4154.4	4120.3	4122.1
37.5°	4001.7	3962.2	3926.3	3867.0	3856.2	3805.9	3750.3	3707.2	3651.5	3620.9
40°	3685.6	3646.1	3601.2	3536.5	3507.8	3461.1	3400.0	3328.2	3283.3	3265.3
42.5°	3383.9	3335.4	3283.3	3206.0	3170.1	3132.4	3067.7	2997.7	2965.4	2960.0
45°	3089.3	3033.6	2983.3	2897.1	2859.4	2814.5	2748.0	2704.9	2658.2	2647.5
47.5°	2805.5	2757.0	2679.8	2613.3	2577.4	2539.7	2471.4	2431.9	2397.8	2385.2
50°	2530.7	2484.0	2424.7	2351.1	2317.0	2281.1	2232.6	2194.8	2155.3	2142.8
52.5°	2284.6	2237.9	2176.9	2119.4	2085.3	2063.7	2018.8	1975.7	1945.2	1925.4
55°	2047.6	2004.5	1948.8	1894.9	1882.3	1853.6	1801.5	1763.8	1744.0	1745.8
57.5°	1830.2	1792.5	1749.4	1697.3	1677.6	1650.6	1616.5	1571.6	1548.2	1541.1
60°	1632.7	1596.7	1560.8	1521.3	1496.2	1476.4	1429.7	1393.8	1363.2	1359.7
62.5°	1444.1	1417.1	1386.6	1347.1	1325.5	1304.0	1262.7	1228.5	1205.2	1198.0
65°	1280.6	1257.3	1221.4	1189.0	1167.5	1145.9	1106.4	1072.3	1052.5	1032.8
67.5°	1119.0	1099.2	1072.3	1038.1	1018.4	996.8	962.7	925.0	901.6	896.3
70°	975.3	953.7	932.2	896.3	878.3	865.7	828.0	790.3	772.3	765.1
72.5°	851.4	828.0	797.5	772.3	761.5	738.2	702.3	677.1	653.8	639.4
75°	722.0	707.7	686.1	657.4	637.6	621.5	592.7	567.6	547.8	533.4
77.5°	616.1	598.1	580.1	551.4	537.0	522.7	492.1	470.6	450.8	443.6
80°	517.3	501.1	476.0	454.4	441.8	429.3	405.9	382.6	368.2	361.0
82.5°	427.5	413.1	393.3	375.4	361.0	352.0	330.5	310.7	298.2	287.4
85°	353.8	335.9	317.9	301.7	291.0	283.8	267.6	253.3	237.1	233.5
87.5°	291.0	276.6	260.4	244.3	237.1	228.1	213.7	203.0	190.4	185.0
90°	249.7	231.7	217.3	204.8	197.6	192.2	181.4	167.0	158.1	152.7
92.5°	226.3	210.1	197.6	185.0	179.6	174.2	161.6	150.9	141.9	134.7
95°	211.9	195.8	183.2	172.4	167.0	163.4	152.7	141.9	132.9	127.5
97.5°	201.2	183.2	170.6	161.6	156.3	152.7	143.7	134.7	125.7	120.3
100°	192.2	174.2	161.6	152.7	149.1	145.5	136.5	127.5	120.3	115.0
102.5°	188.6	168.8	156.3	149.1	145.5	141.9	132.9	125.7	116.7	111.4
105°	188.6	167.0	154.5	145.5	141.9	138.3	131.1	123.9	115.0	109.6
107.5°	192.2	168.8	154.5	147.3	143.7	140.1	131.1	123.9	115.0	109.6
110°	197.6	174.2	158.1	149.1	145.5	141.9	132.9	125.7	116.7	111.4



TEST NUMBER: P232518

CATALOG NUMBER: 8SKB1-LD5-12-N-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	204.8	179.6	163.4	152.7	149.1	145.5	136.5	129.3	120.3	115.0
115°	213.7	186.8	170.6	158.1	154.5	150.9	141.9	132.9	125.7	120.3
117.5°	224.5	197.6	177.8	165.2	161.6	156.3	147.3	138.3	131.1	125.7
120°	235.3	210.1	188.6	174.2	168.8	163.4	154.5	145.5	136.5	131.1
122.5°	247.9	220.9	199.4	185.0	179.6	174.2	163.4	154.5	145.5	138.3
125°	260.4	235.3	211.9	195.8	188.6	183.2	172.4	161.6	154.5	147.3
127.5°	271.2	247.9	224.5	208.3	201.2	194.0	183.2	172.4	163.4	158.1
130°	280.2	260.4	238.9	220.9	213.7	208.3	194.0	183.2	174.2	168.8
132.5°	289.2	271.2	253.3	235.3	228.1	220.9	208.3	195.8	186.8	179.6
135°	294.6	280.2	265.8	249.7	242.5	233.5	220.9	208.3	197.6	190.4
137.5°	294.6	287.4	274.8	262.2	255.0	247.9	233.5	220.9	210.1	204.8
140°	285.6	287.4	282.0	273.0	265.8	260.4	247.9	233.5	222.7	217.3
142.5°	273.0	278.4	282.0	276.6	273.0	269.4	258.6	246.1	235.3	228.1
145°	253.3	264.0	271.2	276.6	274.8	273.0	264.0	255.0	244.3	237.1
147.5°	228.1	244.3	253.3	265.8	269.4	269.4	265.8	258.6	249.7	244.3
150°	192.2	215.5	231.7	244.3	249.7	256.8	256.8	251.5	246.1	240.7
152.5°	136.5	174.2	197.6	215.5	222.7	229.9	238.9	235.3	228.1	224.5
155°	77.2	95.2	143.7	172.4	181.4	190.4	204.8	208.3	206.6	201.2
157.5°	39.5	64.7	80.8	93.4	98.8	113.2	141.9	161.6	159.9	163.4
160°	9.0	10.8	30.5	57.5	64.7	68.3	75.4	80.8	80.8	77.2
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)