

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: P232521

Luminaire Tested: **8SKB1-LD5-14-N-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232521
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-LD5-14-N-UNV-L850-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (476) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15274.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

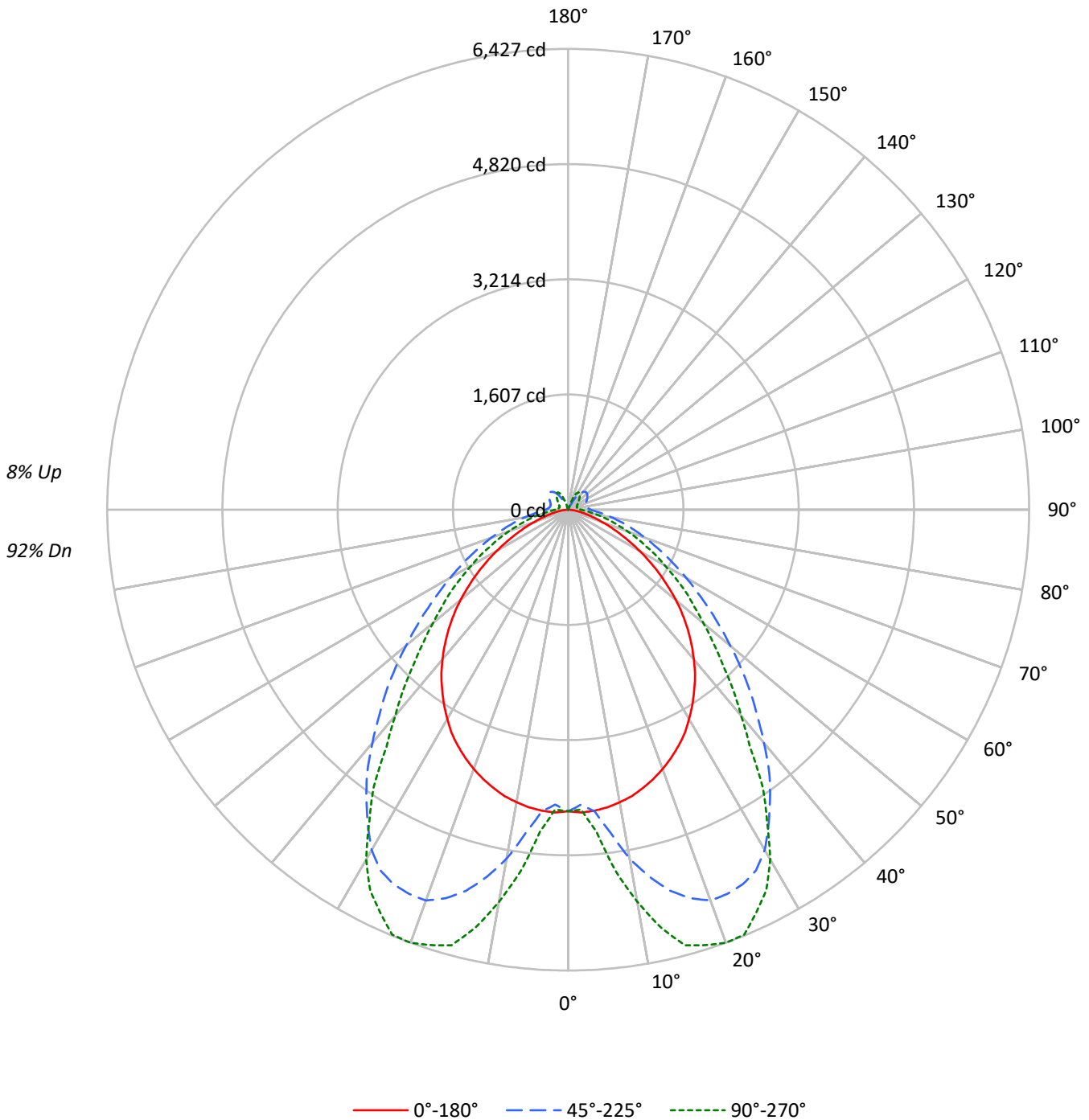
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22641	22641	22641
5°	22688	21225	22089
10°	22496	23481	25164
15°	22176	24958	26693
20°	21760	25362	25837
25°	21227	24500	23844
30°	20506	22837	20915
35°	19629	20201	17122
40°	18579	17414	13316
45°	17302	14772	10683
50°	15727	12266	8621
55°	13819	10094	7058
60°	11635	8269	5565
65°	9357	6707	4314
70°	7200	5360	3289
75°	5363	4233	2380
80°	3763	3261	1687
85°	2249	2459	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	2.8
10°-20°	1498.6	9.8
20°-30°	2467.2	16.2
30°-40°	2771.8	18.1
40°-50°	2466.6	16.1
50°-60°	1907.5	12.5
60°-70°	1295.3	8.5
70°-80°	773.0	5.1
80°-90°	414.6	2.7
90°-100°	272.9	1.8
100°-110°	231.4	1.5
110°-120°	214.1	1.4
120°-130°	199.5	1.3
130°-140°	169.2	1.1
140°-150°	115.6	0.8
150°-160°	44.7	0.3
160°-170°	1.4	0.0
170°-180°	0.0	0.0
0°-30°	4396.4	28.8
0°-40°	7168.2	46.9
0°-60°	11542.3	75.6
0°-90°	14025.3	91.8
90°-120°	718.4	4.7
90°-150°	1202.6	7.9
90°-180°	1249.0	8.2
0°-180°	15274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4207	4207	4207	4207	4207	
5°	4213	4155	4221	4446	4506	400
15°	4019	4514	5500	6187	6288	1133
25°	3635	4669	5762	6214	6200	1672
35°	3064	4205	4906	4861	4735	1914
45°	2356	3250	3592	3284	3041	1812
55°	1549	2214	2383	2162	2005	1384
65°	792	1376	1488	1341	1186	798
75°	293	829	850	732	613	321
85°	52	522	427	334	268	63
90°	4	444	312	227	175	5
95°	2	429	272	192	146	1
105°	2	390	252	163	126	1
115°	2	359	281	177	138	2
125°	2	295	326	217	169	2
135°	2	114	349	278	219	2
145°	2	10	270	316	272	1
155°	2	6	60	208	231	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°	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8
2.5°	4227.4	4210.9	4182.0	4179.9	4161.4	4153.1	4155.2	4149.0	4142.8	4132.5	4116.0
5°	4213.0	4182.0	4134.6	4134.6	4144.9	4155.2	4179.9	4202.6	4208.8	4223.3	4221.2
7.5°	4186.1	4138.7	4093.3	4130.4	4167.6	4182.0	4210.9	4252.2	4316.1	4433.7	4549.2
10°	4142.8	4078.8	4064.4	4124.2	4173.8	4217.1	4283.1	4475.0	4652.4	4827.8	4941.2
12.5°	4093.3	4014.9	4035.5	4111.9	4227.4	4309.9	4479.1	4732.9	4873.2	5077.4	5244.5
15°	4019.0	3944.7	3981.9	4095.4	4336.7	4514.2	4609.1	4918.5	5143.4	5312.6	5500.4
17.5°	3938.6	3872.5	3924.1	4124.2	4452.3	4623.5	4776.2	5038.2	5254.8	5504.5	5681.9
20°	3849.8	3792.1	3858.1	4161.4	4508.0	4683.3	4852.5	5102.2	5388.9	5646.8	5799.5
22.5°	3746.7	3695.1	3796.2	4177.9	4528.6	4704.0	4869.0	5159.9	5457.0	5669.5	5799.5
25°	3635.3	3583.7	3721.9	4144.9	4508.0	4668.9	4846.3	5190.9	5434.3	5601.5	5762.4
27.5°	3515.6	3457.8	3666.2	4076.8	4425.5	4607.0	4807.1	5131.1	5322.9	5508.6	5671.6
30°	3369.1	3317.5	3569.2	3977.8	4309.9	4524.5	4695.7	4986.6	5170.3	5353.9	5479.7
32.5°	3222.6	3173.1	3451.6	3837.5	4177.9	4380.1	4545.1	4772.1	4980.4	5122.8	5201.2
35°	3063.8	3008.1	3315.5	3666.2	4029.3	4204.7	4342.9	4549.2	4724.6	4829.8	4906.2
37.5°	2904.9	2845.1	3142.2	3486.7	3833.3	3994.3	4109.8	4318.2	4452.3	4538.9	4602.9
40°	2725.4	2663.5	2962.7	3284.5	3629.1	3742.6	3862.2	4047.9	4146.9	4217.1	4248.0
42.5°	2543.9	2482.0	2768.7	3072.0	3379.4	3490.8	3614.6	3761.1	3858.1	3899.4	3899.4
45°	2356.1	2296.3	2568.6	2861.6	3121.5	3249.5	3358.8	3476.4	3556.9	3589.9	3591.9
47.5°	2160.1	2110.6	2370.6	2636.7	2880.2	2991.6	3076.2	3189.6	3259.8	3268.0	3266.0
50°	1960.0	1916.7	2149.8	2411.8	2628.5	2727.5	2801.8	2907.0	2962.7	2960.6	2950.3
52.5°	1749.6	1722.7	1939.4	2178.7	2374.7	2463.4	2529.4	2622.3	2667.7	2667.7	2659.4
55°	1549.4	1532.9	1720.7	1951.7	2135.4	2213.8	2275.7	2358.2	2395.3	2395.3	2382.9
57.5°	1347.2	1345.2	1520.5	1726.9	1902.2	1972.4	2038.4	2110.6	2143.6	2143.6	2123.0
60°	1149.2	1159.5	1332.8	1522.6	1683.5	1751.6	1809.4	1879.5	1900.2	1904.3	1900.2
62.5°	965.6	992.4	1157.4	1330.7	1491.7	1549.4	1601.0	1669.1	1685.6	1691.8	1681.5
65°	792.2	833.5	1000.6	1165.7	1316.3	1376.1	1421.5	1469.0	1483.4	1489.6	1487.5
67.5°	649.9	693.2	860.3	1023.3	1161.6	1209.0	1254.4	1295.7	1297.7	1308.0	1299.8
70°	503.4	569.4	736.5	891.3	1021.3	1064.6	1101.7	1130.6	1136.8	1138.9	1136.8
72.5°	387.9	466.3	625.1	777.8	895.4	936.7	965.6	988.2	988.2	990.3	984.1
75°	293.0	387.9	542.6	682.9	788.1	829.4	852.1	866.5	858.3	856.2	850.0
77.5°	212.5	321.9	468.3	600.4	699.4	730.4	751.0	753.0	740.7	738.6	726.2
80°	146.5	262.0	404.4	528.2	618.9	649.9	660.2	652.0	641.6	629.3	612.8
82.5°	97.0	212.5	350.7	468.3	552.9	577.7	585.9	573.6	559.1	538.5	511.7
85°	51.6	171.2	305.3	418.8	499.3	522.0	526.1	503.4	480.7	453.9	427.1
87.5°	22.7	140.3	272.3	385.8	456.0	472.5	474.5	449.8	420.9	389.9	356.9
90°	4.1	119.7	251.7	361.1	429.1	443.6	443.6	410.6	381.7	348.7	311.5
92.5°	2.1	113.5	245.5	352.8	420.9	435.3	433.3	398.2	363.1	326.0	288.8
95°	2.1	99.0	231.1	344.5	414.7	429.1	427.1	389.9	352.8	313.6	272.3
97.5°	2.1	82.5	216.6	330.1	404.4	418.8	418.8	383.7	346.6	305.3	262.0
100°	0.0	64.0	200.1	315.7	389.9	408.5	410.6	377.6	338.4	297.1	255.8
102.5°	0.0	43.3	185.7	303.3	379.6	398.2	402.3	375.5	334.2	293.0	251.7
105°	2.1	26.8	167.1	288.8	369.3	389.9	396.1	373.4	332.2	293.0	251.7
107.5°	2.1	18.6	148.5	274.4	361.1	383.7	392.0	373.4	334.2	295.0	255.8
110°	2.1	16.5	125.9	260.0	350.7	375.5	387.9	375.5	338.4	301.2	262.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	2.1	12.4	94.9	241.4	338.4	367.2	383.7	377.6	344.5	307.4	270.3
115°	2.1	10.3	64.0	222.8	326.0	359.0	379.6	379.6	350.7	315.7	280.6
117.5°	2.1	10.3	43.3	198.1	311.5	348.7	371.4	381.7	359.0	323.9	293.0
120°	2.1	8.3	20.6	169.2	293.0	334.2	363.1	381.7	365.2	334.2	303.3
122.5°	2.1	8.3	16.5	130.0	272.3	317.7	350.7	379.6	371.4	342.5	315.7
125°	2.1	6.2	14.4	86.7	245.5	295.0	334.2	373.4	373.4	350.7	326.0
127.5°	2.1	6.2	12.4	61.9	210.4	270.3	311.5	363.1	373.4	356.9	336.3
130°	2.1	6.2	10.3	18.6	160.9	235.2	284.7	346.6	369.3	361.1	342.5
132.5°	2.1	4.1	10.3	14.4	103.2	183.6	247.6	319.8	356.9	361.1	348.7
135°	2.1	4.1	8.3	12.4	74.3	113.5	198.1	286.8	334.2	348.7	348.7
137.5°	2.1	4.1	8.3	10.3	33.0	84.6	123.8	247.6	305.3	332.2	338.4
140°	2.1	4.1	6.2	8.3	12.4	45.4	88.7	196.0	270.3	307.4	323.9
142.5°	2.1	4.1	6.2	8.3	10.3	10.3	53.6	113.5	226.9	274.4	301.2
145°	2.1	4.1	4.1	6.2	8.3	10.3	10.3	86.7	163.0	235.2	270.3
147.5°	2.1	2.1	4.1	6.2	8.3	8.3	8.3	39.2	97.0	179.5	231.1
150°	2.1	2.1	4.1	4.1	6.2	6.2	8.3	8.3	64.0	101.1	171.2
152.5°	2.1	2.1	4.1	4.1	6.2	6.2	6.2	8.3	8.3	68.1	94.9
155°	2.1	2.1	4.1	4.1	4.1	6.2	6.2	6.2	6.2	8.3	59.8
157.5°	2.1	2.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	8.3	8.3
160°	2.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2	8.3
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°	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8	4206.8
2.5°	4136.6	4167.6	4167.6	4194.4	4208.8	4204.7	4208.8	4217.1	4192.3	4184.1
5°	4266.6	4328.5	4359.4	4429.6	4446.1	4477.0	4487.3	4522.4	4530.7	4505.9
7.5°	4675.1	4803.0	4885.5	4970.1	5007.3	5025.8	5058.8	5081.5	5116.6	5089.8
10°	5058.8	5213.6	5331.2	5424.0	5446.7	5465.3	5504.5	5560.2	5556.1	5551.9
12.5°	5391.0	5527.2	5671.6	5805.7	5873.8	5888.2	5946.0	6014.1	6026.5	5970.8
15°	5665.4	5855.2	6018.2	6160.6	6187.4	6224.5	6267.8	6290.5	6280.2	6288.5
17.5°	5894.4	6055.3	6170.9	6247.2	6263.7	6292.6	6331.8	6360.7	6364.8	6366.9
20°	5985.2	6092.5	6203.9	6309.1	6342.1	6371.0	6418.5	6443.2	6439.1	6426.7
22.5°	5968.7	6125.5	6228.6	6315.3	6348.3	6375.1	6416.4	6432.9	6426.7	6414.3
25°	5943.9	6078.0	6168.8	6214.2	6214.2	6234.8	6224.5	6212.1	6197.7	6199.8
27.5°	5826.3	5904.7	5966.6	6018.2	6024.4	6026.5	6020.3	6007.9	5999.6	5981.1
30°	5587.0	5681.9	5710.8	5706.7	5698.4	5696.4	5671.6	5653.0	5630.3	5632.4
32.5°	5306.4	5327.1	5339.4	5304.4	5283.7	5279.6	5256.9	5226.0	5195.0	5162.0
35°	4945.4	4930.9	4902.0	4877.3	4860.8	4836.0	4803.0	4772.1	4732.9	4734.9
37.5°	4596.7	4551.3	4510.0	4442.0	4429.6	4371.8	4307.9	4258.3	4194.4	4159.3
40°	4233.6	4188.2	4136.6	4062.3	4029.3	3975.7	3905.5	3823.0	3771.4	3750.8
42.5°	3887.0	3831.3	3771.4	3682.7	3641.5	3598.1	3523.9	3443.4	3406.3	3400.1
45°	3548.6	3484.7	3426.9	3327.9	3284.5	3233.0	3156.6	3107.1	3053.5	3041.1
47.5°	3222.6	3166.9	3078.2	3001.9	2960.6	2917.3	2838.9	2793.5	2754.3	2739.9
50°	2907.0	2853.3	2785.3	2700.7	2661.5	2620.2	2564.5	2521.2	2475.8	2461.3
52.5°	2624.3	2570.7	2500.5	2434.5	2395.3	2370.6	2319.0	2269.5	2234.4	2211.7
55°	2352.0	2302.5	2238.5	2176.6	2162.2	2129.2	2069.3	2026.0	2003.3	2005.4
57.5°	2102.3	2059.0	2009.5	1949.7	1927.0	1896.0	1856.8	1805.3	1778.4	1770.2
60°	1875.4	1834.1	1792.9	1747.5	1718.6	1695.9	1642.3	1601.0	1565.9	1561.8
62.5°	1658.8	1627.8	1592.8	1547.4	1522.6	1497.8	1450.4	1411.2	1384.4	1376.1
65°	1471.0	1444.2	1402.9	1365.8	1341.0	1316.3	1270.9	1231.7	1209.0	1186.3
67.5°	1285.3	1262.6	1231.7	1192.5	1169.8	1145.0	1105.8	1062.5	1035.7	1029.5
70°	1120.3	1095.5	1070.8	1029.5	1008.9	994.4	951.1	907.8	887.2	878.9
72.5°	977.9	951.1	916.0	887.2	874.8	848.0	806.7	777.8	751.0	734.5
75°	829.4	812.9	788.1	755.1	732.4	713.8	680.8	652.0	629.3	612.8
77.5°	707.7	687.0	666.4	633.4	616.9	600.4	565.3	540.5	517.9	509.6
80°	594.2	575.6	546.7	522.0	507.5	493.1	466.3	439.5	422.9	414.7
82.5°	491.0	474.5	451.8	431.2	414.7	404.4	379.6	356.9	342.5	330.1
85°	406.4	385.8	365.2	346.6	334.2	326.0	307.4	290.9	272.3	268.2
87.5°	334.2	317.7	299.2	280.6	272.3	262.0	245.5	233.1	218.7	212.5
90°	286.8	266.1	249.6	235.2	226.9	220.8	208.4	191.9	181.6	175.4
92.5°	260.0	241.4	226.9	212.5	206.3	200.1	185.7	173.3	163.0	154.7
95°	243.5	224.9	210.4	198.1	191.9	187.7	175.4	163.0	152.7	146.5
97.5°	231.1	210.4	196.0	185.7	179.5	175.4	165.1	154.7	144.4	138.2
100°	220.8	200.1	185.7	175.4	171.2	167.1	156.8	146.5	138.2	132.0
102.5°	216.6	193.9	179.5	171.2	167.1	163.0	152.7	144.4	134.1	127.9
105°	216.6	191.9	177.4	167.1	163.0	158.9	150.6	142.4	132.0	125.9
107.5°	220.8	193.9	177.4	169.2	165.1	160.9	150.6	142.4	132.0	125.9
110°	226.9	200.1	181.6	171.2	167.1	163.0	152.7	144.4	134.1	127.9



TEST NUMBER: P232521

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L850-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	235.2	206.3	187.7	175.4	171.2	167.1	156.8	148.5	138.2	132.0
115°	245.5	214.6	196.0	181.6	177.4	173.3	163.0	152.7	144.4	138.2
117.5°	257.9	226.9	204.3	189.8	185.7	179.5	169.2	158.9	150.6	144.4
120°	270.3	241.4	216.6	200.1	193.9	187.7	177.4	167.1	156.8	150.6
122.5°	284.7	253.8	229.0	212.5	206.3	200.1	187.7	177.4	167.1	158.9
125°	299.2	270.3	243.5	224.9	216.6	210.4	198.1	185.7	177.4	169.2
127.5°	311.5	284.7	257.9	239.3	231.1	222.8	210.4	198.1	187.7	181.6
130°	321.9	299.2	274.4	253.8	245.5	239.3	222.8	210.4	200.1	193.9
132.5°	332.2	311.5	290.9	270.3	262.0	253.8	239.3	224.9	214.6	206.3
135°	338.4	321.9	305.3	286.8	278.5	268.2	253.8	239.3	226.9	218.7
137.5°	338.4	330.1	315.7	301.2	293.0	284.7	268.2	253.8	241.4	235.2
140°	328.0	330.1	323.9	313.6	305.3	299.2	284.7	268.2	255.8	249.6
142.5°	313.6	319.8	323.9	317.7	313.6	309.5	297.1	282.7	270.3	262.0
145°	290.9	303.3	311.5	317.7	315.7	313.6	303.3	293.0	280.6	272.3
147.5°	262.0	280.6	290.9	305.3	309.5	309.5	305.3	297.1	286.8	280.6
150°	220.8	247.6	266.1	280.6	286.8	295.0	295.0	288.8	282.7	276.5
152.5°	156.8	200.1	226.9	247.6	255.8	264.1	274.4	270.3	262.0	257.9
155°	88.7	109.3	165.1	198.1	208.4	218.7	235.2	239.3	237.3	231.1
157.5°	45.4	74.3	92.8	107.3	113.5	130.0	163.0	185.7	183.6	187.7
160°	10.3	12.4	35.1	66.0	74.3	78.4	86.7	92.8	92.8	88.7
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)