

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: P232519

Luminaire Tested: **8SKB1-LD5-14-N-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232519
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-L835-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (476) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13844.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

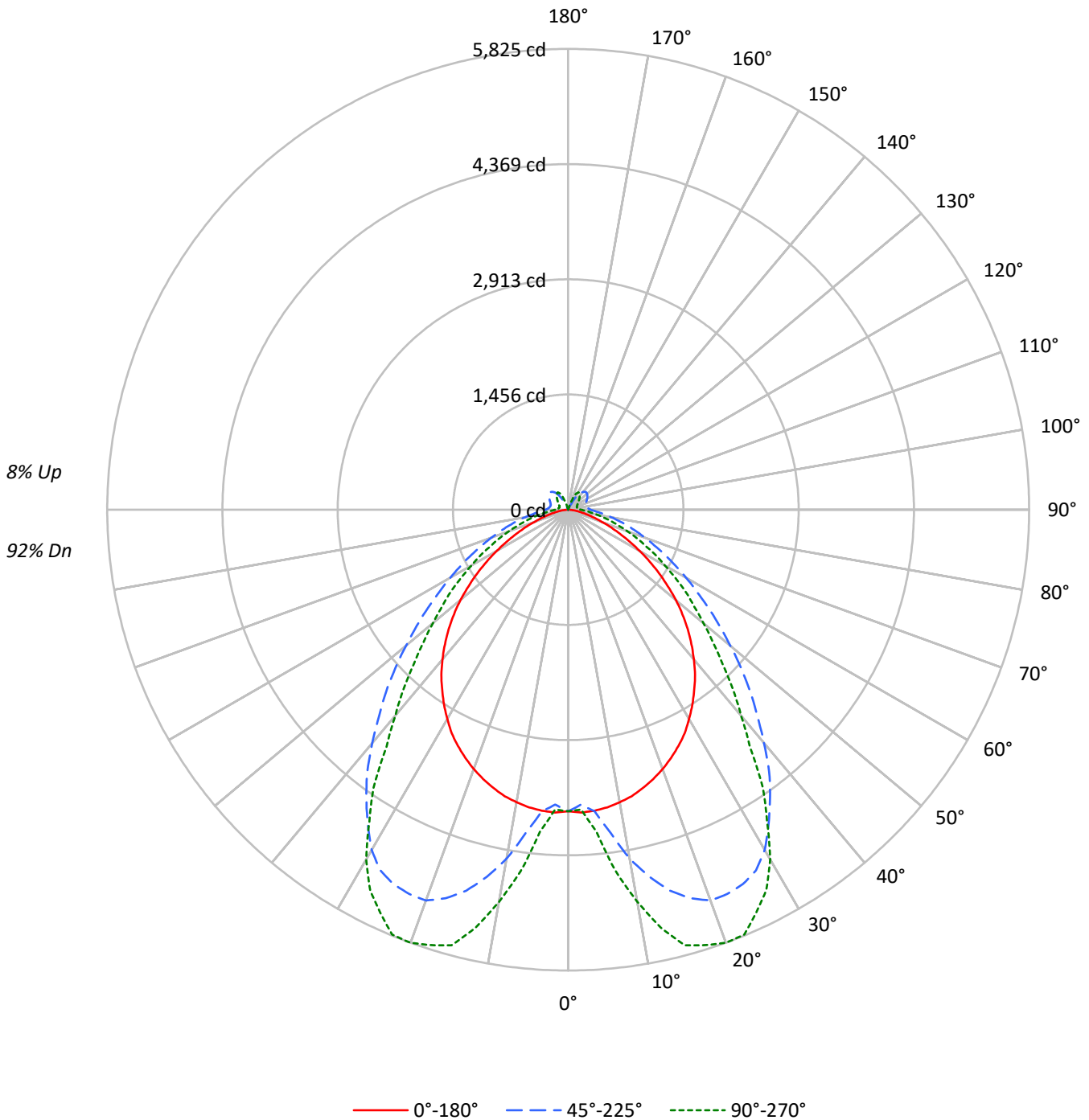
Input Watts (W): 105.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20521	20521	20521
5°	20564	19238	20021
10°	20389	21283	22808
15°	20100	22621	24194
20°	19723	22988	23418
25°	19239	22206	21612
30°	18586	20699	18957
35°	17790	18309	15519
40°	16840	15783	12069
45°	15682	13389	9683
50°	14255	11118	7814
55°	12526	9149	6397
60°	10546	7495	5044
65°	8482	6079	3910
70°	6526	4858	2981
75°	4860	3837	2157
80°	3411	2955	1530
85°	2036	2229	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.4	2.8
10°-20°	1358.3	9.8
20°-30°	2236.2	16.2
30°-40°	2512.3	18.1
40°-50°	2235.7	16.1
50°-60°	1728.9	12.5
60°-70°	1174.1	8.5
70°-80°	700.7	5.1
80°-90°	375.8	2.7
90°-100°	247.3	1.8
100°-110°	209.8	1.5
110°-120°	194.1	1.4
120°-130°	180.8	1.3
130°-140°	153.3	1.1
140°-150°	104.7	0.8
150°-160°	40.5	0.3
160°-170°	1.3	0.0
170°-180°	0.0	0.0
0°-30°	3984.8	28.8
0°-40°	6497.1	46.9
0°-60°	10461.7	75.6
0°-90°	12712.2	91.8
90°-120°	651.2	4.7
90°-150°	1090.0	7.9
90°-180°	1132.0	8.2
0°-180°	13844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3813	3813	3813	3813	3813	
5°	3818	3766	3826	4030	4084	362
15°	3643	4092	4985	5608	5700	1027
25°	3295	4232	5223	5632	5619	1516
35°	2777	3811	4447	4406	4292	1735
45°	2136	2945	3256	2977	2756	1643
55°	1404	2006	2160	1960	1818	1254
65°	718	1247	1348	1216	1075	724
75°	266	752	770	664	555	291
85°	47	473	387	303	243	57
90°	4	402	282	206	159	4
95°	2	389	247	174	133	1
105°	2	353	228	148	114	1
115°	2	325	254	161	125	2
125°	2	267	296	196	153	2
135°	2	103	316	252	198	1
145°	2	9	245	286	247	1
155°	2	6	54	189	209	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°	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9
2.5°	3831.6	3816.7	3790.5	3788.6	3771.8	3764.3	3766.2	3760.6	3754.9	3745.6	3730.6
5°	3818.5	3790.5	3747.5	3747.5	3756.8	3766.2	3788.6	3809.2	3814.8	3827.9	3826.0
7.5°	3794.2	3751.2	3710.1	3743.7	3777.4	3790.5	3816.7	3854.1	3912.0	4018.6	4123.3
10°	3754.9	3697.0	3683.9	3738.1	3783.0	3822.3	3882.1	4056.0	4216.8	4375.8	4478.6
12.5°	3710.1	3639.0	3657.7	3726.9	3831.6	3906.4	4059.7	4289.8	4416.9	4602.0	4753.5
15°	3642.7	3575.4	3609.1	3711.9	3930.7	4091.5	4177.6	4458.1	4661.9	4815.2	4985.4
17.5°	3569.8	3510.0	3556.7	3738.1	4035.4	4190.6	4329.0	4566.5	4762.9	4989.1	5150.0
20°	3489.4	3437.0	3496.9	3771.8	4085.9	4244.9	4398.2	4624.5	4884.4	5118.2	5256.5
22.5°	3395.9	3349.2	3440.8	3786.7	4104.6	4263.6	4413.2	4676.8	4946.1	5138.7	5256.5
25°	3294.9	3248.2	3373.5	3756.8	4085.9	4231.8	4392.6	4704.9	4925.6	5077.0	5222.9
27.5°	3186.5	3134.1	3323.0	3695.1	4011.1	4175.7	4357.1	4650.7	4824.6	4992.9	5140.6
30°	3053.7	3006.9	3235.1	3605.3	3906.4	4100.9	4256.1	4519.8	4686.2	4852.6	4966.7
32.5°	2920.9	2876.0	3128.5	3478.2	3786.7	3970.0	4119.6	4325.3	4514.2	4643.2	4714.2
35°	2776.9	2726.4	3005.1	3323.0	3652.1	3811.0	3936.3	4123.3	4282.3	4377.6	4446.8
37.5°	2632.9	2578.7	2848.0	3160.3	3474.4	3620.3	3725.0	3913.9	4035.4	4114.0	4171.9
40°	2470.3	2414.2	2685.3	2977.0	3289.3	3392.2	3500.6	3668.9	3758.7	3822.3	3850.3
42.5°	2305.7	2249.6	2509.5	2784.4	3063.0	3164.0	3276.2	3409.0	3496.9	3534.3	3534.3
45°	2135.5	2081.3	2328.1	2593.7	2829.3	2945.2	3044.3	3150.9	3223.9	3253.8	3255.7
47.5°	1957.9	1913.0	2148.6	2389.8	2610.5	2711.5	2788.2	2891.0	2954.6	2962.1	2960.2
50°	1776.5	1737.2	1948.5	2186.0	2382.4	2472.1	2539.4	2634.8	2685.3	2683.4	2674.1
52.5°	1585.8	1561.4	1757.8	1974.7	2152.4	2232.8	2292.6	2376.8	2417.9	2417.9	2410.4
55°	1404.4	1389.4	1559.6	1769.0	1935.4	2006.5	2062.6	2137.4	2171.1	2171.1	2159.8
57.5°	1221.1	1219.2	1378.2	1565.2	1724.1	1787.7	1847.6	1913.0	1942.9	1942.9	1924.2
60°	1041.6	1050.9	1208.0	1380.1	1525.9	1587.6	1640.0	1703.6	1722.3	1726.0	1722.3
62.5°	875.2	899.5	1049.1	1206.1	1352.0	1404.4	1451.1	1512.8	1527.8	1533.4	1524.0
65°	718.1	755.5	906.9	1056.5	1193.1	1247.3	1288.4	1331.4	1344.5	1350.1	1348.3
67.5°	589.0	628.3	779.8	927.5	1052.8	1095.8	1137.0	1174.4	1176.2	1185.6	1178.1
70°	456.3	516.1	667.6	807.8	925.6	964.9	998.6	1024.8	1030.4	1032.2	1030.4
72.5°	351.6	422.6	566.6	705.0	811.6	849.0	875.2	895.7	895.7	897.6	892.0
75°	265.5	351.6	491.8	619.0	714.3	751.7	772.3	785.4	777.9	776.0	770.4
77.5°	192.6	291.7	424.5	544.2	633.9	662.0	680.7	682.5	671.3	669.5	658.2
80°	132.8	237.5	366.5	478.7	561.0	589.0	598.4	590.9	581.6	570.3	555.4
82.5°	87.9	192.6	317.9	424.5	501.2	523.6	531.1	519.9	506.8	488.1	463.8
85°	46.7	155.2	276.8	379.6	452.5	473.1	476.8	456.3	435.7	411.4	387.1
87.5°	20.6	127.2	246.8	349.7	413.3	428.2	430.1	407.7	381.5	353.4	323.5
90°	3.7	108.5	228.1	327.2	389.0	402.0	402.0	372.1	345.9	316.0	282.4
92.5°	1.9	102.8	222.5	319.8	381.5	394.6	392.7	360.9	329.1	295.5	261.8
95°	1.9	89.8	209.4	312.3	375.9	389.0	387.1	353.4	319.8	284.2	246.8
97.5°	1.9	74.8	196.3	299.2	366.5	379.6	379.6	347.8	314.2	276.8	237.5
100°	0.0	58.0	181.4	286.1	353.4	370.3	372.1	342.2	306.7	269.3	231.9
102.5°	0.0	39.3	168.3	274.9	344.1	360.9	364.6	340.3	302.9	265.5	228.1
105°	1.9	24.3	151.5	261.8	334.7	353.4	359.0	338.5	301.1	265.5	228.1
107.5°	1.9	16.8	134.6	248.7	327.2	347.8	355.3	338.5	302.9	267.4	231.9
110°	1.9	15.0	114.1	235.6	317.9	340.3	351.6	340.3	306.7	273.0	237.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.9	11.2	86.0	218.8	306.7	332.9	347.8	342.2	312.3	278.6	245.0
115°	1.9	9.3	58.0	202.0	295.5	325.4	344.1	344.1	317.9	286.1	254.3
117.5°	1.9	9.3	39.3	179.5	282.4	316.0	336.6	345.9	325.4	293.6	265.5
120°	1.9	7.5	18.7	153.3	265.5	302.9	329.1	345.9	331.0	302.9	274.9
122.5°	1.9	7.5	15.0	117.8	246.8	288.0	317.9	344.1	336.6	310.4	286.1
125°	1.9	5.6	13.1	78.5	222.5	267.4	302.9	338.5	338.5	317.9	295.5
127.5°	1.9	5.6	11.2	56.1	190.7	245.0	282.4	329.1	338.5	323.5	304.8
130°	1.9	5.6	9.3	16.8	145.9	213.2	258.1	314.2	334.7	327.2	310.4
132.5°	1.9	3.7	9.3	13.1	93.5	166.4	224.4	289.8	323.5	327.2	316.0
135°	1.9	3.7	7.5	11.2	67.3	102.8	179.5	259.9	302.9	316.0	316.0
137.5°	1.9	3.7	7.5	9.3	29.9	76.7	112.2	224.4	276.8	301.1	306.7
140°	1.9	3.7	5.6	7.5	11.2	41.1	80.4	177.6	245.0	278.6	293.6
142.5°	1.9	3.7	5.6	7.5	9.3	9.3	48.6	102.8	205.7	248.7	273.0
145°	1.9	3.7	3.7	5.6	7.5	9.3	9.3	78.5	147.7	213.2	245.0
147.5°	1.9	1.9	3.7	5.6	7.5	7.5	7.5	35.5	87.9	162.7	209.4
150°	1.9	1.9	3.7	3.7	5.6	5.6	7.5	7.5	58.0	91.6	155.2
152.5°	1.9	1.9	3.7	3.7	5.6	5.6	5.6	7.5	7.5	61.7	86.0
155°	1.9	1.9	3.7	3.7	3.7	5.6	5.6	5.6	5.6	7.5	54.2
157.5°	1.9	1.9	3.7	3.7	3.7	3.7	3.7	5.6	5.6	7.5	7.5
160°	1.9	3.7	3.7	3.7	3.7	3.7	3.7	5.6	5.6	5.6	7.5
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°	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9	3812.9
2.5°	3749.3	3777.4	3777.4	3801.7	3814.8	3811.0	3814.8	3822.3	3799.8	3792.3
5°	3867.1	3923.2	3951.3	4014.9	4029.8	4057.9	4067.2	4099.0	4106.5	4084.1
7.5°	4237.4	4353.3	4428.1	4504.8	4538.5	4555.3	4585.2	4605.8	4637.6	4613.3
10°	4585.2	4725.5	4832.1	4916.2	4936.8	4953.6	4989.1	5039.6	5035.9	5032.1
12.5°	4886.3	5009.7	5140.6	5262.2	5323.9	5337.0	5389.3	5451.0	5462.2	5411.8
15°	5135.0	5307.0	5454.8	5583.8	5608.1	5641.8	5681.0	5701.6	5692.3	5699.7
17.5°	5342.6	5488.4	5593.1	5662.3	5677.3	5703.5	5739.0	5765.2	5768.9	5770.8
20°	5424.8	5522.1	5623.1	5718.4	5748.4	5774.5	5817.5	5840.0	5836.2	5825.0
22.5°	5409.9	5552.0	5645.5	5724.0	5754.0	5778.3	5815.7	5830.6	5825.0	5813.8
25°	5387.4	5509.0	5591.3	5632.4	5632.4	5651.1	5641.8	5630.5	5617.5	5619.3
27.5°	5280.9	5351.9	5408.0	5454.8	5460.4	5462.2	5456.6	5445.4	5437.9	5421.1
30°	5063.9	5150.0	5176.1	5172.4	5164.9	5163.0	5140.6	5123.8	5103.2	5105.1
32.5°	4809.6	4828.3	4839.5	4807.7	4789.0	4785.3	4764.7	4736.7	4708.6	4678.7
35°	4482.4	4469.3	4443.1	4420.7	4405.7	4383.3	4353.3	4325.3	4289.8	4291.6
37.5°	4166.3	4125.2	4087.8	4026.1	4014.9	3962.5	3904.5	3859.7	3801.7	3769.9
40°	3837.2	3796.1	3749.3	3682.0	3652.1	3603.5	3539.9	3465.1	3418.3	3399.6
42.5°	3523.1	3472.6	3418.3	3337.9	3300.5	3261.3	3193.9	3121.0	3087.4	3081.7
45°	3216.4	3158.4	3106.1	3016.3	2977.0	2930.3	2861.1	2816.2	2767.6	2756.4
47.5°	2920.9	2870.4	2790.0	2720.8	2683.4	2644.2	2573.1	2532.0	2496.4	2483.3
50°	2634.8	2586.2	2524.5	2447.8	2412.3	2374.9	2324.4	2285.1	2244.0	2230.9
52.5°	2378.6	2330.0	2266.4	2206.6	2171.1	2148.6	2101.9	2057.0	2025.2	2004.6
55°	2131.8	2086.9	2028.9	1972.8	1959.8	1929.8	1875.6	1836.3	1815.8	1817.6
57.5°	1905.5	1866.3	1821.4	1767.1	1746.6	1718.5	1683.0	1636.2	1611.9	1604.5
60°	1699.8	1662.4	1625.0	1583.9	1557.7	1537.1	1488.5	1451.1	1419.3	1415.6
62.5°	1503.5	1475.4	1443.6	1402.5	1380.1	1357.6	1314.6	1279.1	1254.8	1247.3
65°	1333.3	1309.0	1271.6	1237.9	1215.5	1193.1	1151.9	1116.4	1095.8	1075.2
67.5°	1165.0	1144.4	1116.4	1080.9	1060.3	1037.8	1002.3	963.0	938.7	933.1
70°	1015.4	993.0	970.5	933.1	914.4	901.3	862.1	822.8	804.1	796.6
72.5°	886.4	862.1	830.3	804.1	792.9	768.6	731.2	705.0	680.7	665.7
75°	751.7	736.8	714.3	684.4	663.8	647.0	617.1	590.9	570.3	555.4
77.5°	641.4	622.7	604.0	574.1	559.1	544.2	512.4	489.9	469.4	461.9
80°	538.6	521.7	495.5	473.1	460.0	446.9	422.6	398.3	383.3	375.9
82.5°	445.1	430.1	409.5	390.8	375.9	366.5	344.1	323.5	310.4	299.2
85°	368.4	349.7	331.0	314.2	302.9	295.5	278.6	263.7	246.8	243.1
87.5°	302.9	288.0	271.1	254.3	246.8	237.5	222.5	211.3	198.2	192.6
90°	259.9	241.2	226.3	213.2	205.7	200.1	188.9	173.9	164.6	158.9
92.5°	235.6	218.8	205.7	192.6	187.0	181.4	168.3	157.1	147.7	140.2
95°	220.7	203.8	190.7	179.5	173.9	170.2	158.9	147.7	138.4	132.8
97.5°	209.4	190.7	177.6	168.3	162.7	158.9	149.6	140.2	130.9	125.3
100°	200.1	181.4	168.3	158.9	155.2	151.5	142.1	132.8	125.3	119.7
102.5°	196.3	175.8	162.7	155.2	151.5	147.7	138.4	130.9	121.5	115.9
105°	196.3	173.9	160.8	151.5	147.7	144.0	136.5	129.0	119.7	114.1
107.5°	200.1	175.8	160.8	153.3	149.6	145.9	136.5	129.0	119.7	114.1
110°	205.7	181.4	164.6	155.2	151.5	147.7	138.4	130.9	121.5	115.9



TEST NUMBER: P232519

CATALOG NUMBER: 8SKB1-LD5-14-N-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	213.2	187.0	170.2	158.9	155.2	151.5	142.1	134.6	125.3	119.7
115°	222.5	194.5	177.6	164.6	160.8	157.1	147.7	138.4	130.9	125.3
117.5°	233.7	205.7	185.1	172.0	168.3	162.7	153.3	144.0	136.5	130.9
120°	245.0	218.8	196.3	181.4	175.8	170.2	160.8	151.5	142.1	136.5
122.5°	258.1	230.0	207.6	192.6	187.0	181.4	170.2	160.8	151.5	144.0
125°	271.1	245.0	220.7	203.8	196.3	190.7	179.5	168.3	160.8	153.3
127.5°	282.4	258.1	233.7	216.9	209.4	202.0	190.7	179.5	170.2	164.6
130°	291.7	271.1	248.7	230.0	222.5	216.9	202.0	190.7	181.4	175.8
132.5°	301.1	282.4	263.7	245.0	237.5	230.0	216.9	203.8	194.5	187.0
135°	306.7	291.7	276.8	259.9	252.4	243.1	230.0	216.9	205.7	198.2
137.5°	306.7	299.2	286.1	273.0	265.5	258.1	243.1	230.0	218.8	213.2
140°	297.3	299.2	293.6	284.2	276.8	271.1	258.1	243.1	231.9	226.3
142.5°	284.2	289.8	293.6	288.0	284.2	280.5	269.3	256.2	245.0	237.5
145°	263.7	274.9	282.4	288.0	286.1	284.2	274.9	265.5	254.3	246.8
147.5°	237.5	254.3	263.7	276.8	280.5	280.5	276.8	269.3	259.9	254.3
150°	200.1	224.4	241.2	254.3	259.9	267.4	267.4	261.8	256.2	250.6
152.5°	142.1	181.4	205.7	224.4	231.9	239.4	248.7	245.0	237.5	233.7
155°	80.4	99.1	149.6	179.5	188.9	198.2	213.2	216.9	215.0	209.4
157.5°	41.1	67.3	84.1	97.2	102.8	117.8	147.7	168.3	166.4	170.2
160°	9.3	11.2	31.8	59.8	67.3	71.1	78.5	84.1	84.1	80.4
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)