

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: P232512

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232512  
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-LD5-8-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: 8835.0 lumens  
Efficiency: N/A  
Efficacy: 148.5 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

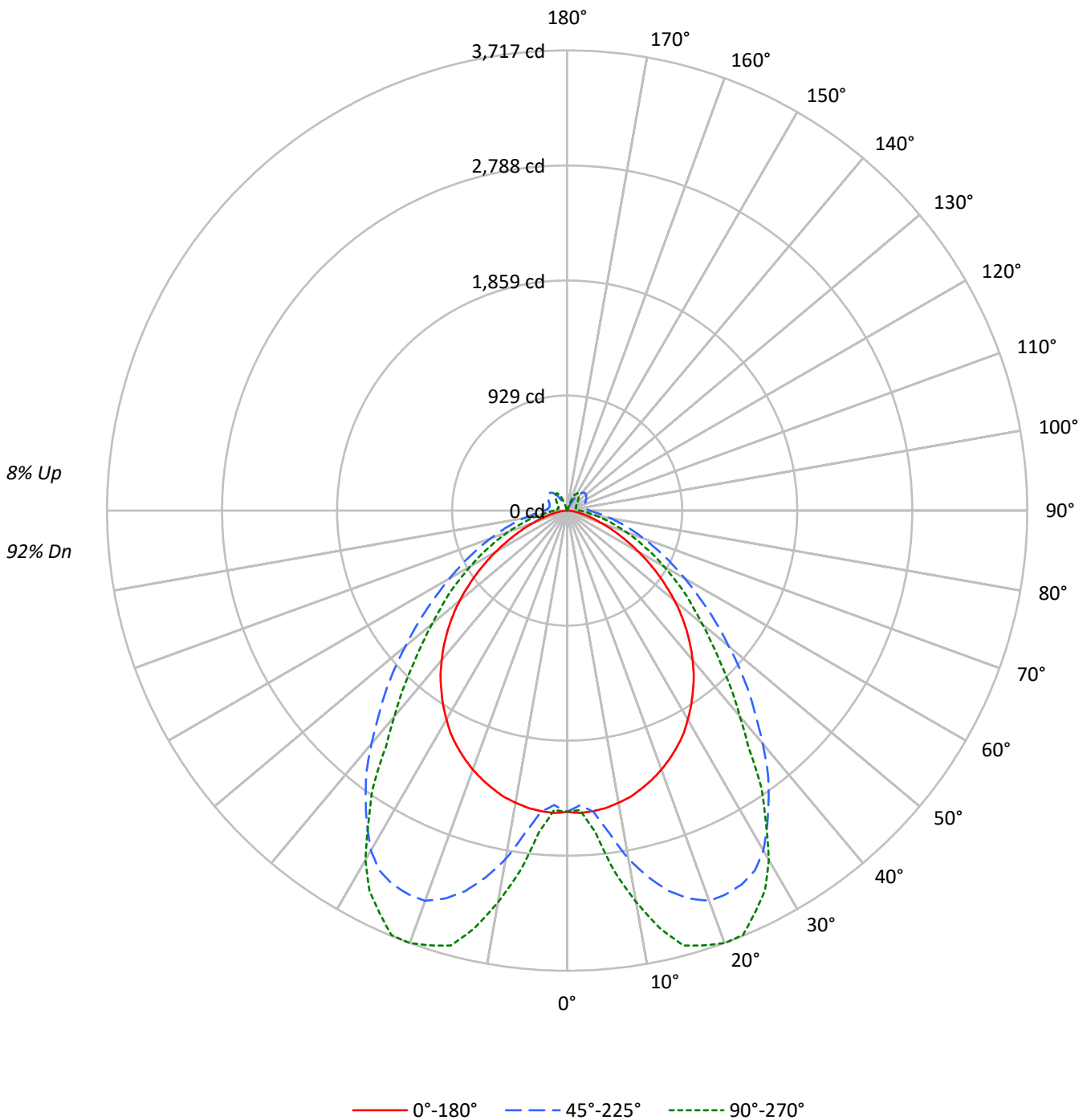
Input Watts (W): 59.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	13096	13096	13096
5°	13124	12277	12777
10°	13012	13582	14556
15°	12827	14436	15440
20°	12587	14670	14945
25°	12278	14172	13792
30°	11861	13210	12098
35°	11354	11685	9904
40°	10747	10073	7702
45°	10008	8544	6179
50°	9097	7095	4987
55°	7993	5839	4082
60°	6730	4783	3219
65°	5413	3879	2495
70°	4165	3101	1902
75°	3102	2449	1376
80°	2175	1886	976
85°	1299	1422	668



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	2.8
10°-20°	866.8	9.8
20°-30°	1427.1	16.2
30°-40°	1603.3	18.1
40°-50°	1426.8	16.1
50°-60°	1103.4	12.5
60°-70°	749.3	8.5
70°-80°	447.2	5.1
80°-90°	239.8	2.7
90°-100°	157.8	1.8
100°-110°	133.9	1.5
110°-120°	123.9	1.4
120°-130°	115.4	1.3
130°-140°	97.8	1.1
140°-150°	66.8	0.8
150°-160°	25.8	0.3
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-30°	2543.1	28.8
0°-40°	4146.3	46.9
0°-60°	6676.5	75.6
0°-90°	8112.7	91.8
90°-120°	415.6	4.7
90°-150°	695.6	7.9
90°-180°	722.0	8.2
0°-180°	8835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2437	2404	2442	2572	2606	231
15°	2325	2611	3182	3579	3638	655
25°	2103	2701	3333	3594	3586	967
35°	1772	2432	2838	2812	2739	1107
45°	1363	1880	2078	1900	1759	1048
55°	896	1280	1378	1251	1160	800
65°	458	796	860	776	686	462
75°	170	480	492	424	354	186
85°	30	302	247	193	155	37
90°	2	257	180	131	101	3
95°	1	248	158	111	85	1
105°	1	226	146	94	73	1
115°	1	208	162	103	80	1
125°	1	171	189	125	98	1
135°	1	66	202	161	126	1
145°	1	6	156	183	158	1
155°	1	4	35	120	134	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°	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2445.3	2435.7	2419.0	2417.8	2407.1	2402.3	2403.5	2399.9	2396.3	2390.4	2380.8
5°	2436.9	2419.0	2391.6	2391.6	2397.5	2403.5	2417.8	2430.9	2434.5	2442.9	2441.7
7.5°	2421.4	2394.0	2367.7	2389.2	2410.7	2419.0	2435.7	2459.6	2496.6	2564.6	2631.4
10°	2396.3	2359.3	2351.0	2385.6	2414.2	2439.3	2477.5	2588.5	2691.1	2792.5	2858.2
12.5°	2367.7	2322.3	2334.3	2378.4	2445.3	2493.0	2590.9	2737.6	2818.8	2936.9	3033.6
15°	2324.7	2281.8	2303.3	2368.9	2508.5	2611.1	2666.0	2845.1	2975.1	3073.0	3181.6
17.5°	2278.2	2240.0	2269.8	2385.6	2575.3	2674.4	2762.7	2914.3	3039.6	3184.0	3286.6
20°	2226.9	2193.5	2231.6	2407.1	2607.6	2709.0	2806.9	2951.3	3117.1	3266.3	3354.6
22.5°	2167.2	2137.4	2195.8	2416.6	2619.5	2720.9	2816.4	2984.7	3156.5	3279.5	3354.6
25°	2102.8	2072.9	2152.9	2397.5	2607.6	2700.7	2803.3	3002.6	3143.4	3240.1	3333.2
27.5°	2033.5	2000.1	2120.7	2358.1	2559.8	2664.9	2780.6	2968.0	3079.0	3186.4	3280.6
30°	1948.8	1919.0	2064.6	2300.9	2493.0	2617.1	2716.2	2884.4	2990.6	3096.9	3169.7
32.5°	1864.1	1835.4	1996.6	2219.7	2416.6	2533.6	2629.1	2760.3	2880.9	2963.2	3008.6
35°	1772.2	1740.0	1917.8	2120.7	2330.7	2432.1	2512.1	2631.4	2732.9	2793.7	2837.9
37.5°	1680.3	1645.7	1817.5	2016.8	2217.3	2310.4	2377.2	2497.8	2575.3	2625.5	2662.5
40°	1576.5	1540.7	1713.7	1899.9	2099.2	2164.8	2234.0	2341.4	2398.7	2439.3	2457.2
42.5°	1471.5	1435.7	1601.5	1777.0	1954.8	2019.2	2090.8	2175.6	2231.6	2255.5	2255.5
45°	1362.9	1328.2	1485.8	1655.2	1805.6	1879.6	1942.8	2010.9	2057.4	2076.5	2077.7
47.5°	1249.5	1220.8	1371.2	1525.2	1666.0	1730.4	1779.4	1845.0	1885.6	1890.3	1889.1
50°	1133.7	1108.7	1243.5	1395.1	1520.4	1577.7	1620.6	1681.5	1713.7	1712.5	1706.6
52.5°	1012.0	996.5	1121.8	1260.2	1373.6	1424.9	1463.1	1516.8	1543.1	1543.1	1538.3
55°	896.2	886.7	995.3	1129.0	1235.2	1280.5	1316.3	1364.1	1385.5	1385.5	1378.4
57.5°	779.3	778.1	879.5	998.9	1100.3	1140.9	1179.1	1220.8	1239.9	1239.9	1228.0
60°	664.7	670.7	770.9	880.7	973.8	1013.2	1046.6	1087.2	1099.1	1101.5	1099.1
62.5°	558.5	574.0	669.5	769.7	862.8	896.2	926.1	965.5	975.0	978.6	972.6
65°	458.3	482.1	578.8	674.3	761.4	796.0	822.2	849.7	858.1	861.6	860.4
67.5°	375.9	401.0	497.6	591.9	671.9	699.3	725.6	749.5	750.6	756.6	751.8
70°	291.2	329.4	426.0	515.5	590.7	615.8	637.3	654.0	657.6	658.8	657.6
72.5°	224.4	269.7	361.6	449.9	517.9	541.8	558.5	571.6	571.6	572.8	569.2
75°	169.5	224.4	313.9	395.0	455.9	479.7	492.9	501.2	496.5	495.3	491.7
77.5°	122.9	186.2	270.9	347.3	404.6	422.5	434.4	435.6	428.4	427.2	420.1
80°	84.7	151.6	233.9	305.5	358.0	375.9	381.9	377.1	371.1	364.0	354.4
82.5°	56.1	122.9	202.9	270.9	319.8	334.2	338.9	331.8	323.4	311.5	296.0
85°	29.8	99.1	176.6	242.3	288.8	301.9	304.3	291.2	278.1	262.5	247.0
87.5°	13.1	81.2	157.5	223.2	263.7	273.3	274.5	260.2	243.5	225.6	206.5
90°	2.4	69.2	145.6	208.8	248.2	256.6	256.6	237.5	220.8	201.7	180.2
92.5°	1.2	65.6	142.0	204.1	243.5	251.8	250.6	230.3	210.0	188.6	167.1
95°	1.2	57.3	133.7	199.3	239.9	248.2	247.0	225.6	204.1	181.4	157.5
97.5°	1.2	47.7	125.3	190.9	233.9	242.3	242.3	222.0	200.5	176.6	151.6
100°	0.0	37.0	115.8	182.6	225.6	236.3	237.5	218.4	195.7	171.8	148.0
102.5°	0.0	25.1	107.4	175.4	219.6	230.3	232.7	217.2	193.3	169.5	145.6
105°	1.2	15.5	96.7	167.1	213.6	225.6	229.1	216.0	192.1	169.5	145.6
107.5°	1.2	10.7	85.9	158.7	208.8	222.0	226.7	216.0	193.3	170.7	148.0
110°	1.2	9.5	72.8	150.4	202.9	217.2	224.4	217.2	195.7	174.2	151.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.2	7.2	54.9	139.6	195.7	212.4	222.0	218.4	199.3	177.8	156.3
115°	1.2	6.0	37.0	128.9	188.6	207.7	219.6	219.6	202.9	182.6	162.3
117.5°	1.2	6.0	25.1	114.6	180.2	201.7	214.8	220.8	207.7	187.4	169.5
120°	1.2	4.8	11.9	97.9	169.5	193.3	210.0	220.8	211.2	193.3	175.4
122.5°	1.2	4.8	9.5	75.2	157.5	183.8	202.9	219.6	214.8	198.1	182.6
125°	1.2	3.6	8.4	50.1	142.0	170.7	193.3	216.0	216.0	202.9	188.6
127.5°	1.2	3.6	7.2	35.8	121.7	156.3	180.2	210.0	216.0	206.5	194.5
130°	1.2	3.6	6.0	10.7	93.1	136.0	164.7	200.5	213.6	208.8	198.1
132.5°	1.2	2.4	6.0	8.4	59.7	106.2	143.2	185.0	206.5	208.8	201.7
135°	1.2	2.4	4.8	7.2	43.0	65.6	114.6	165.9	193.3	201.7	201.7
137.5°	1.2	2.4	4.8	6.0	19.1	48.9	71.6	143.2	176.6	192.1	195.7
140°	1.2	2.4	3.6	4.8	7.2	26.3	51.3	113.4	156.3	177.8	187.4
142.5°	1.2	2.4	3.6	4.8	6.0	6.0	31.0	65.6	131.3	158.7	174.2
145°	1.2	2.4	2.4	3.6	4.8	6.0	6.0	50.1	94.3	136.0	156.3
147.5°	1.2	1.2	2.4	3.6	4.8	4.8	4.8	22.7	56.1	103.8	133.7
150°	1.2	1.2	2.4	2.4	3.6	3.6	4.8	4.8	37.0	58.5	99.1
152.5°	1.2	1.2	2.4	2.4	3.6	3.6	3.6	4.8	4.8	39.4	54.9
155°	1.2	1.2	2.4	2.4	2.4	3.6	3.6	3.6	3.6	4.8	34.6
157.5°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	4.8
160°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	3.6	4.8
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°	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3	2433.3
2.5°	2392.8	2410.7	2410.7	2426.2	2434.5	2432.1	2434.5	2439.3	2425.0	2420.2
5°	2467.9	2503.7	2521.6	2562.2	2571.8	2589.7	2595.6	2615.9	2620.7	2606.4
7.5°	2704.2	2778.2	2826.0	2874.9	2896.4	2907.1	2926.2	2939.3	2959.6	2944.1
10°	2926.2	3015.7	3083.7	3137.4	3150.6	3161.3	3184.0	3216.2	3213.8	3211.4
12.5°	3118.3	3197.1	3280.6	3358.2	3397.6	3406.0	3439.4	3478.7	3485.9	3453.7
15°	3277.1	3386.9	3481.1	3563.5	3579.0	3600.5	3625.5	3638.7	3632.7	3637.5
17.5°	3409.5	3502.6	3569.4	3613.6	3623.1	3639.9	3662.5	3679.2	3681.6	3682.8
20°	3462.0	3524.1	3588.5	3649.4	3668.5	3685.2	3712.7	3727.0	3724.6	3717.4
22.5°	3452.5	3543.2	3602.9	3653.0	3672.1	3687.6	3711.5	3721.0	3717.4	3710.3
25°	3438.2	3515.7	3568.3	3594.5	3594.5	3606.4	3600.5	3593.3	3585.0	3586.2
27.5°	3370.1	3415.5	3451.3	3481.1	3484.7	3485.9	3482.3	3475.2	3470.4	3459.7
30°	3231.7	3286.6	3303.3	3300.9	3296.2	3295.0	3280.6	3269.9	3256.8	3258.0
32.5°	3069.4	3081.3	3088.5	3068.2	3056.3	3053.9	3040.8	3022.9	3005.0	2985.9
35°	2860.6	2852.2	2835.5	2821.2	2811.6	2797.3	2778.2	2760.3	2737.6	2738.8
37.5°	2658.9	2632.6	2608.8	2569.4	2562.2	2528.8	2491.8	2463.2	2426.2	2405.9
40°	2448.8	2422.6	2392.8	2349.8	2330.7	2299.7	2259.1	2211.4	2181.5	2169.6
42.5°	2248.4	2216.1	2181.5	2130.2	2106.3	2081.3	2038.3	1991.8	1970.3	1966.7
45°	2052.6	2015.6	1982.2	1924.9	1899.9	1870.1	1825.9	1797.3	1766.2	1759.1
47.5°	1864.1	1831.9	1780.5	1736.4	1712.5	1687.5	1642.1	1615.9	1593.2	1584.8
50°	1681.5	1650.5	1611.1	1562.2	1539.5	1515.6	1483.4	1458.3	1432.1	1423.7
52.5°	1518.0	1487.0	1446.4	1408.2	1385.5	1371.2	1341.4	1312.7	1292.4	1279.3
55°	1360.5	1331.8	1294.8	1259.0	1250.7	1231.6	1197.0	1171.9	1158.8	1160.0
57.5°	1216.1	1191.0	1162.4	1127.8	1114.6	1096.7	1074.1	1044.2	1028.7	1023.9
60°	1084.8	1060.9	1037.1	1010.8	994.1	981.0	949.9	926.1	905.8	903.4
62.5°	959.5	941.6	921.3	895.0	880.7	866.4	839.0	816.3	800.8	796.0
65°	850.9	835.4	811.5	790.0	775.7	761.4	735.1	712.5	699.3	686.2
67.5°	743.5	730.4	712.5	689.8	676.7	662.3	639.7	614.6	599.1	595.5
70°	648.0	633.7	619.4	595.5	583.6	575.2	550.2	525.1	513.2	508.4
72.5°	565.7	550.2	529.9	513.2	506.0	490.5	466.6	449.9	434.4	424.8
75°	479.7	470.2	455.9	436.8	423.7	412.9	393.8	377.1	364.0	354.4
77.5°	409.3	397.4	385.5	366.4	356.8	347.3	327.0	312.7	299.5	294.8
80°	343.7	333.0	316.2	301.9	293.6	285.2	269.7	254.2	244.6	239.9
82.5°	284.0	274.5	261.4	249.4	239.9	233.9	219.6	206.5	198.1	190.9
85°	235.1	223.2	211.2	200.5	193.3	188.6	177.8	168.3	157.5	155.1
87.5°	193.3	183.8	173.0	162.3	157.5	151.6	142.0	134.9	126.5	122.9
90°	165.9	153.9	144.4	136.0	131.3	127.7	120.5	111.0	105.0	101.4
92.5°	150.4	139.6	131.3	122.9	119.3	115.8	107.4	100.2	94.3	89.5
95°	140.8	130.1	121.7	114.6	111.0	108.6	101.4	94.3	88.3	84.7
97.5°	133.7	121.7	113.4	107.4	103.8	101.4	95.5	89.5	83.5	80.0
100°	127.7	115.8	107.4	101.4	99.1	96.7	90.7	84.7	80.0	76.4
102.5°	125.3	112.2	103.8	99.1	96.7	94.3	88.3	83.5	77.6	74.0
105°	125.3	111.0	102.6	96.7	94.3	91.9	87.1	82.3	76.4	72.8
107.5°	127.7	112.2	102.6	97.9	95.5	93.1	87.1	82.3	76.4	72.8
110°	131.3	115.8	105.0	99.1	96.7	94.3	88.3	83.5	77.6	74.0





TEST NUMBER: P232512

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	136.0	119.3	108.6	101.4	99.1	96.7	90.7	85.9	80.0	76.4
115°	142.0	124.1	113.4	105.0	102.6	100.2	94.3	88.3	83.5	80.0
117.5°	149.2	131.3	118.1	109.8	107.4	103.8	97.9	91.9	87.1	83.5
120°	156.3	139.6	125.3	115.8	112.2	108.6	102.6	96.7	90.7	87.1
122.5°	164.7	146.8	132.5	122.9	119.3	115.8	108.6	102.6	96.7	91.9
125°	173.0	156.3	140.8	130.1	125.3	121.7	114.6	107.4	102.6	97.9
127.5°	180.2	164.7	149.2	138.4	133.7	128.9	121.7	114.6	108.6	105.0
130°	186.2	173.0	158.7	146.8	142.0	138.4	128.9	121.7	115.8	112.2
132.5°	192.1	180.2	168.3	156.3	151.6	146.8	138.4	130.1	124.1	119.3
135°	195.7	186.2	176.6	165.9	161.1	155.1	146.8	138.4	131.3	126.5
137.5°	195.7	190.9	182.6	174.2	169.5	164.7	155.1	146.8	139.6	136.0
140°	189.7	190.9	187.4	181.4	176.6	173.0	164.7	155.1	148.0	144.4
142.5°	181.4	185.0	187.4	183.8	181.4	179.0	171.8	163.5	156.3	151.6
145°	168.3	175.4	180.2	183.8	182.6	181.4	175.4	169.5	162.3	157.5
147.5°	151.6	162.3	168.3	176.6	179.0	179.0	176.6	171.8	165.9	162.3
150°	127.7	143.2	153.9	162.3	165.9	170.7	170.7	167.1	163.5	159.9
152.5°	90.7	115.8	131.3	143.2	148.0	152.8	158.7	156.3	151.6	149.2
155°	51.3	63.2	95.5	114.6	120.5	126.5	136.0	138.4	137.2	133.7
157.5°	26.3	43.0	53.7	62.1	65.6	75.2	94.3	107.4	106.2	108.6
160°	6.0	7.2	20.3	38.2	43.0	45.3	50.1	53.7	53.7	51.3
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)