

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: P232497

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-317-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SKB1-LD5-10-W-UNV-L850-CD1-U  
Description: METALUX SKYBAR 8' WAVESTREAM STRIP  
WITH WIDE LENS  
Light Source: (392) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10442.0 lumens  
Efficiency: N/A  
Efficacy: 134.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.48 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 8' x H: 0.29')  
CIE Type: Semi-Direct

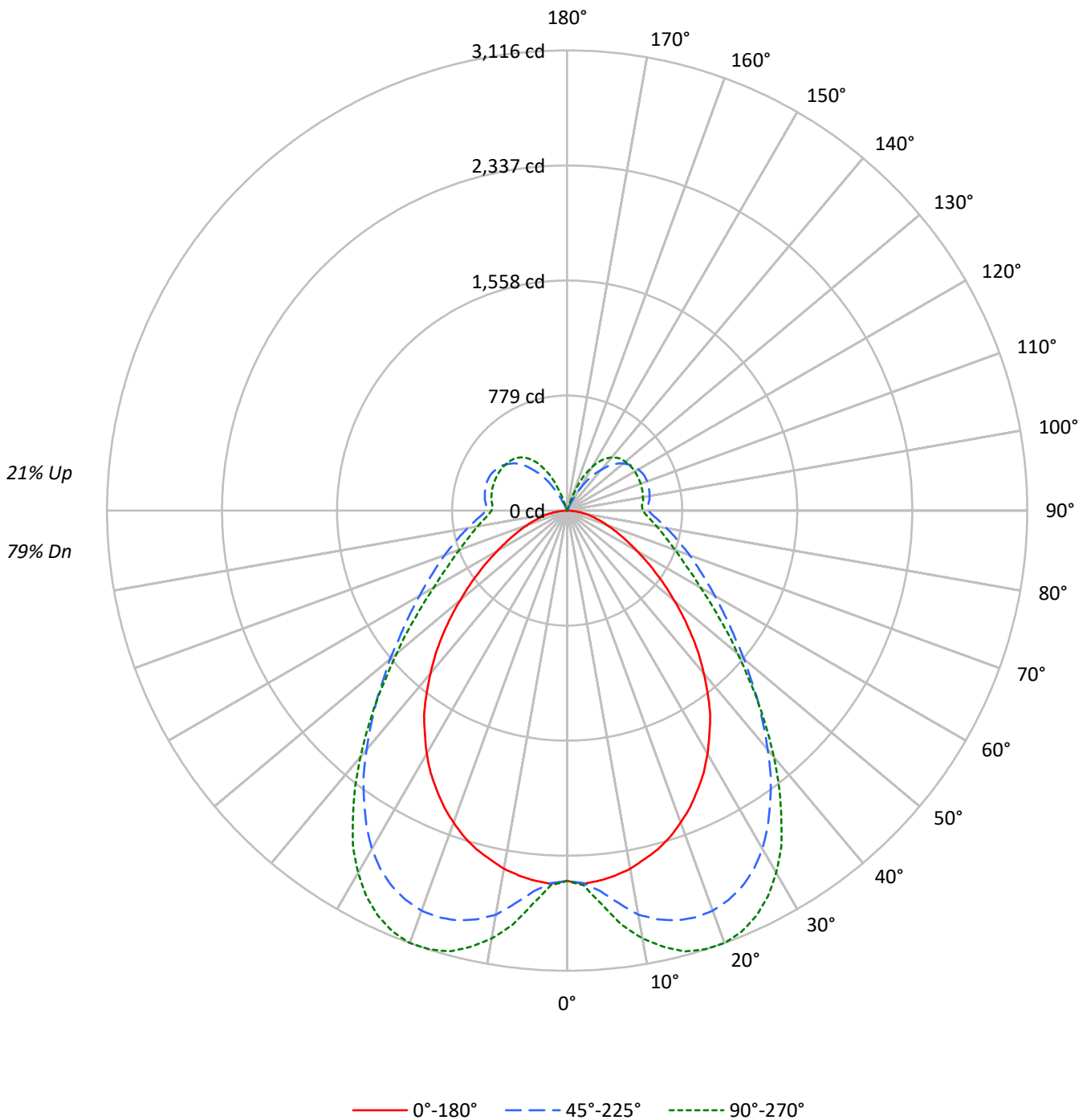
Input Watts (W): 77.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	103	97	93	88	98	93	89	85	85	82	78	77	75	72	70	68	67	63
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	85	74	66	60	81	71	64	58	65	59	54	60	55	51	55	51	47	44
4	78	66	57	51	74	63	55	49	58	51	46	53	48	43	49	44	41	38
5	72	59	50	44	68	57	49	42	52	45	40	48	42	38	44	39	36	33
6	66	53	44	38	63	51	43	37	47	40	35	44	38	33	40	35	31	29
7	61	48	40	34	58	46	38	33	43	36	31	40	34	30	37	32	28	26
8	57	44	36	30	54	42	35	29	39	33	28	36	31	26	34	29	25	23
9	53	40	32	27	51	39	31	26	36	30	25	34	28	24	31	26	23	21
10	50	37	29	24	48	36	29	24	33	27	23	31	26	22	29	24	21	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	13497	13497	13497
5°	13546	13003	13111
10°	13374	13202	13334
15°	13101	13036	13119
20°	12707	12610	12527
25°	12197	11933	11649
30°	11572	11021	10512
35°	10824	9875	9140
40°	9808	8662	7730
45°	8745	7510	6409
50°	7592	6506	5281
55°	6496	5662	4392
60°	5504	5025	3708
65°	4719	4530	3238
70°	4124	4163	2905
75°	3600	3852	2665
80°	3085	3628	2505
85°	2293	3493	2387



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.2	2.4
10°-20°	796.0	7.6
20°-30°	1247.4	11.9
30°-40°	1428.4	13.7
40°-50°	1315.6	12.6
50°-60°	1079.7	10.3
60°-70°	863.3	8.3
70°-80°	693.4	6.6
80°-90°	551.6	5.3
90°-100°	493.0	4.7
100°-110°	480.1	4.6
110°-120°	435.2	4.2
120°-130°	359.6	3.4
130°-140°	258.0	2.5
140°-150°	143.3	1.4
150°-160°	43.1	0.4
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	2296.6	22.0
0°-40°	3725.0	35.7
0°-60°	6120.4	58.6
0°-90°	8228.7	78.8
90°-120°	1408.3	13.5
90°-150°	2169.2	20.8
90°-180°	2213.0	21.2
0°-180°	10442.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2515	2541	2586	2675	2675	238
15°	2374	2615	2873	3053	3091	668
25°	2089	2487	2807	3005	3029	960
35°	1690	2101	2398	2540	2528	1049
45°	1191	1586	1826	1874	1825	918
55°	728	1140	1337	1302	1248	657
65°	400	836	1005	936	890	401
75°	197	637	773	715	686	211
85°	53	482	607	569	554	57
90°	3	428	550	524	512	4
95°	2	425	553	524	509	1
105°	2	416	574	545	527	2
115°	2	375	572	556	530	1
125°	2	293	533	551	524	1
135°	2	107	443	515	500	1
145°	2	4	272	416	420	1
155°	2	2	42	194	243	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°	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9
2.5°	2529.0	2518.4	2510.9	2518.4	2521.4	2524.4	2532.0	2530.5	2532.0	2529.0	2524.4
5°	2515.4	2506.4	2503.4	2518.4	2533.5	2541.0	2551.5	2562.0	2571.0	2583.0	2586.0
7.5°	2492.9	2488.4	2491.4	2518.4	2542.5	2560.5	2575.5	2602.5	2629.6	2656.6	2682.1
10°	2462.9	2459.9	2473.4	2513.9	2553.0	2578.5	2604.0	2653.6	2700.2	2742.2	2778.2
12.5°	2417.8	2425.3	2447.9	2501.9	2563.5	2599.5	2640.1	2701.7	2751.2	2799.3	2835.3
15°	2374.3	2378.8	2422.3	2486.9	2559.0	2614.6	2656.6	2734.7	2785.8	2835.3	2872.9
17.5°	2317.2	2327.7	2375.8	2467.4	2556.0	2605.5	2656.6	2718.2	2779.7	2836.8	2887.9
20°	2248.1	2270.7	2335.2	2435.8	2536.5	2586.0	2631.1	2706.2	2769.2	2824.8	2883.4
22.5°	2174.5	2200.1	2272.2	2392.3	2495.9	2545.5	2589.0	2671.6	2736.2	2791.8	2854.8
25°	2088.9	2122.0	2207.6	2336.7	2435.8	2486.9	2533.5	2617.6	2685.1	2740.7	2806.8
27.5°	2001.8	2039.4	2132.5	2263.1	2365.3	2413.3	2461.4	2545.5	2613.1	2668.6	2737.7
30°	1901.2	1941.8	2046.9	2173.0	2273.7	2326.2	2369.8	2452.4	2526.0	2575.5	2644.6
32.5°	1793.1	1839.6	1952.3	2073.9	2174.5	2224.1	2267.6	2347.2	2413.3	2465.9	2529.0
35°	1689.5	1727.0	1841.2	1959.8	2055.9	2101.0	2152.0	2228.6	2287.2	2341.2	2398.3
37.5°	1564.8	1609.9	1725.5	1838.1	1934.3	1982.3	2024.4	2094.9	2149.0	2200.1	2264.6
40°	1438.7	1488.2	1608.4	1709.0	1808.1	1845.7	1887.7	1952.3	2003.3	2066.4	2113.0
42.5°	1320.0	1366.6	1480.7	1582.8	1676.0	1713.5	1754.0	1821.6	1865.2	1919.2	1965.8
45°	1190.9	1238.9	1360.6	1456.7	1545.3	1585.9	1627.9	1683.5	1733.0	1776.6	1826.1
47.5°	1067.7	1124.8	1242.0	1332.1	1422.2	1459.7	1495.7	1554.3	1603.9	1650.4	1685.0
50°	946.1	1007.7	1121.8	1219.4	1305.0	1342.6	1378.6	1437.2	1488.2	1528.8	1564.8
52.5°	835.0	899.6	1016.7	1118.8	1195.4	1234.4	1270.5	1327.6	1378.6	1416.2	1440.2
55°	728.4	800.4	922.1	1021.2	1097.8	1139.8	1168.4	1228.4	1279.5	1314.0	1336.6
57.5°	635.2	714.8	830.5	932.6	1012.2	1049.7	1084.3	1141.3	1189.4	1222.4	1240.4
60°	543.6	632.2	752.4	851.5	932.6	968.6	1006.2	1063.2	1108.3	1138.3	1154.8
62.5°	467.0	560.2	684.8	780.9	863.5	899.6	932.6	989.7	1033.2	1063.2	1076.8
65°	399.5	497.1	623.2	719.3	798.9	836.5	871.0	929.6	970.1	998.7	1004.7
67.5°	340.9	440.0	567.7	662.3	744.9	779.4	814.0	872.5	911.6	935.6	940.1
70°	288.3	389.0	516.6	611.2	692.3	729.9	764.4	817.0	857.5	877.0	883.0
72.5°	240.3	345.4	468.5	566.2	647.3	681.8	714.8	770.4	807.9	826.0	824.5
75°	196.7	304.9	428.0	524.1	600.7	636.7	669.8	723.8	761.4	776.4	773.4
77.5°	159.2	270.3	389.0	482.1	560.2	596.2	626.2	680.3	714.8	731.4	728.4
80°	120.1	232.8	351.4	443.0	521.1	554.1	587.2	638.2	672.8	689.3	681.8
82.5°	87.1	198.2	316.9	407.0	483.6	518.1	548.1	600.7	633.7	647.3	642.8
85°	52.6	163.7	279.3	372.4	449.0	482.1	515.1	564.7	597.7	611.2	606.7
87.5°	22.5	132.2	247.8	340.9	417.5	450.5	482.1	531.6	563.2	576.7	572.2
90°	3.0	111.1	228.3	319.9	395.0	428.0	459.5	509.1	540.6	554.1	549.6
92.5°	1.5	106.6	222.3	313.9	389.0	423.5	453.5	504.6	537.6	549.6	548.1
95°	1.5	99.1	219.3	313.9	390.5	425.0	456.5	507.6	540.6	554.1	552.6
97.5°	1.5	88.6	214.8	312.4	392.0	428.0	459.5	513.6	548.1	563.2	561.7
100°	1.5	72.1	205.7	307.9	389.0	426.5	458.0	513.6	549.6	566.2	566.2
102.5°	1.5	49.6	195.2	300.4	386.0	422.0	455.0	512.1	549.6	567.7	570.7
105°	1.5	30.0	181.7	291.3	378.4	416.0	450.5	509.1	548.1	569.2	573.7
107.5°	1.5	19.5	165.2	280.8	370.9	410.0	444.5	504.6	545.1	569.2	575.2
110°	1.5	16.5	144.2	268.8	360.4	399.5	435.5	498.6	540.6	567.7	576.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.5	13.5	111.1	252.3	348.4	389.0	426.5	488.1	534.6	561.7	575.2
115°	1.5	10.5	72.1	232.8	333.4	375.4	413.0	477.6	524.1	555.6	572.2
117.5°	1.5	9.0	46.6	210.2	316.9	358.9	398.0	464.0	513.6	546.6	566.2
120°	1.5	7.5	19.5	180.2	295.8	340.9	379.9	446.0	498.6	534.6	557.2
122.5°	1.5	6.0	15.0	135.2	271.8	318.4	358.9	428.0	480.6	521.1	545.1
125°	1.5	6.0	12.0	87.1	241.8	292.8	336.4	407.0	462.5	504.6	533.1
127.5°	1.5	4.5	10.5	58.6	205.7	262.8	309.4	382.9	440.0	483.6	515.1
130°	1.5	4.5	9.0	25.5	153.2	225.3	276.3	354.4	414.5	461.0	495.6
132.5°	1.5	3.0	7.5	10.5	94.6	174.2	234.3	318.4	384.4	434.0	473.1
135°	1.5	3.0	6.0	9.0	63.1	106.6	183.2	277.8	345.4	398.0	443.0
137.5°	1.5	3.0	4.5	7.5	25.5	70.6	112.6	232.8	303.4	358.9	405.5
140°	1.5	3.0	4.5	6.0	7.5	33.0	76.6	177.2	256.8	316.9	361.9
142.5°	1.5	3.0	4.5	4.5	6.0	7.5	37.5	103.6	205.7	270.3	319.9
145°	1.5	1.5	3.0	4.5	4.5	4.5	6.0	70.6	133.7	219.3	271.8
147.5°	1.5	1.5	3.0	3.0	4.5	4.5	4.5	28.5	82.6	154.7	219.3
150°	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	42.0	84.1	148.7
152.5°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	4.5	48.1	82.6
155°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	42.0
157.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
160°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9	2507.9
2.5°	2532.0	2545.5	2551.5	2557.5	2559.0	2560.5	2557.5	2556.0	2545.5	2539.5
5°	2607.0	2640.1	2653.6	2673.1	2674.6	2676.1	2685.1	2680.6	2682.1	2674.6
7.5°	2716.7	2764.7	2785.8	2811.3	2817.3	2824.8	2839.8	2841.3	2839.8	2829.3
10°	2818.8	2859.3	2890.9	2914.9	2923.9	2929.9	2947.9	2952.4	2949.4	2941.9
12.5°	2880.4	2932.9	2964.5	2999.0	3008.0	3017.0	3032.0	3039.6	3030.5	3026.0
15°	2932.9	2988.5	3014.0	3051.6	3053.1	3069.6	3095.1	3098.1	3093.6	3090.6
17.5°	2946.4	3003.5	3041.1	3074.1	3086.1	3096.6	3111.6	3123.6	3125.2	3113.1
20°	2943.4	2997.5	3042.6	3077.1	3090.6	3098.1	3117.6	3126.7	3122.1	3116.1
22.5°	2919.4	2973.5	3018.5	3048.6	3060.6	3072.6	3090.6	3098.1	3098.1	3086.1
25°	2869.9	2923.9	2963.0	2994.5	3005.0	3017.0	3035.0	3039.6	3036.5	3029.0
27.5°	2799.3	2847.3	2886.4	2913.4	2923.9	2934.4	2954.0	2958.5	2952.4	2944.9
30°	2695.6	2745.2	2784.3	2808.3	2817.3	2824.8	2836.8	2847.3	2838.3	2830.8
32.5°	2583.0	2628.1	2655.1	2677.6	2683.6	2689.6	2701.7	2706.2	2697.2	2698.7
35°	2450.9	2489.9	2521.4	2536.5	2539.5	2538.0	2544.0	2545.5	2547.0	2527.5
37.5°	2306.7	2341.2	2356.3	2377.3	2372.8	2380.3	2386.3	2380.3	2365.3	2357.8
40°	2152.0	2174.5	2200.1	2207.6	2203.1	2213.6	2210.6	2200.1	2183.6	2177.5
42.5°	1998.8	2024.4	2033.4	2039.4	2034.9	2036.4	2030.4	2027.4	2010.8	1997.3
45°	1853.2	1871.2	1875.7	1874.2	1874.2	1866.7	1859.2	1847.2	1832.1	1824.6
47.5°	1710.5	1722.5	1724.0	1716.5	1710.5	1701.5	1703.0	1682.0	1663.9	1654.9
50°	1578.3	1582.8	1578.3	1564.8	1561.8	1551.3	1545.3	1528.8	1512.3	1507.8
52.5°	1459.7	1458.2	1449.2	1434.2	1428.2	1417.7	1407.1	1392.1	1375.6	1375.6
55°	1344.1	1339.6	1327.6	1311.0	1302.0	1297.5	1284.0	1267.5	1255.5	1248.0
57.5°	1243.5	1234.4	1219.4	1204.4	1192.4	1180.4	1171.4	1159.4	1144.3	1141.3
60°	1153.3	1135.3	1121.8	1105.3	1096.3	1085.8	1073.8	1064.7	1052.7	1040.7
62.5°	1069.2	1054.2	1036.2	1019.7	1010.7	1001.7	989.7	976.1	968.6	965.6
65°	995.7	980.6	959.6	943.1	935.6	926.6	917.6	902.6	898.0	890.5
67.5°	929.6	910.1	890.5	875.5	868.0	865.0	856.0	847.0	836.5	830.5
70°	868.0	848.5	830.5	820.0	810.9	807.9	800.4	788.4	780.9	776.4
72.5°	809.4	792.9	777.9	762.9	756.9	755.4	749.4	740.4	732.9	728.4
75°	759.9	743.4	728.4	720.8	714.8	710.3	707.3	698.3	693.8	686.3
77.5°	716.3	696.8	683.3	675.8	671.3	668.3	665.3	660.8	654.8	650.3
80°	669.8	654.8	644.3	636.7	633.7	630.7	627.7	624.7	620.2	615.7
82.5°	630.7	617.2	608.2	602.2	602.2	599.2	597.7	594.7	590.2	584.2
85°	593.2	581.2	573.7	570.7	569.2	567.7	566.2	563.2	558.7	554.1
87.5°	561.7	552.6	545.1	543.6	543.6	542.1	540.6	539.1	534.6	530.1
90°	540.6	531.6	527.1	525.6	524.1	524.1	524.1	521.1	516.6	512.1
92.5°	537.6	528.6	524.1	521.1	521.1	521.1	521.1	518.1	513.6	507.6
95°	542.1	533.1	528.6	525.6	524.1	524.1	522.6	519.6	515.1	509.1
97.5°	552.6	543.6	537.6	533.1	531.6	531.6	530.1	527.1	522.6	518.1
100°	558.7	549.6	543.6	539.1	537.6	536.1	534.6	531.6	527.1	521.1
102.5°	563.2	554.1	546.6	543.6	542.1	540.6	537.6	534.6	530.1	524.1
105°	566.2	558.7	552.6	546.6	545.1	543.6	540.6	537.6	531.6	527.1
107.5°	570.7	563.2	555.6	551.1	548.1	546.6	543.6	540.6	534.6	528.6
110°	572.2	566.2	558.7	554.1	551.1	549.6	545.1	540.6	534.6	530.1





TEST NUMBER: P232497

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	573.7	569.2	561.7	555.6	554.1	551.1	546.6	542.1	536.1	530.1
115°	573.7	569.2	563.2	557.2	555.6	552.6	548.1	542.1	536.1	530.1
117.5°	572.2	569.2	564.7	558.7	555.6	552.6	548.1	542.1	534.6	530.1
120°	567.7	567.7	563.2	558.7	555.6	552.6	546.6	540.6	534.6	528.6
122.5°	560.2	563.2	560.2	555.6	554.1	551.1	546.6	539.1	531.6	527.1
125°	549.6	557.2	555.6	552.6	551.1	548.1	543.6	537.6	530.1	524.1
127.5°	536.1	546.6	549.6	548.1	546.6	545.1	539.1	533.1	527.1	519.6
130°	519.6	533.1	539.1	539.1	539.1	537.6	534.6	528.6	521.1	515.1
132.5°	498.6	515.1	524.1	528.6	528.6	528.6	525.6	521.1	515.1	507.6
135°	474.6	495.6	507.6	513.6	515.1	515.1	515.1	512.1	506.1	500.1
137.5°	446.0	470.0	486.6	495.6	498.6	500.1	501.6	498.6	492.6	486.6
140°	404.0	438.5	459.5	471.6	474.6	479.1	482.1	479.1	474.6	470.0
142.5°	361.9	398.0	428.0	444.5	447.5	452.0	456.5	456.5	452.0	447.5
145°	316.9	352.9	384.4	411.5	416.0	420.5	426.5	429.5	425.0	420.5
147.5°	264.3	301.9	334.9	364.9	378.4	384.4	390.5	393.5	392.0	387.5
150°	208.7	249.3	280.8	310.9	324.4	342.4	349.9	351.4	349.9	345.4
152.5°	126.1	184.7	220.8	250.8	262.8	279.3	300.4	304.9	301.9	298.8
155°	70.6	96.1	135.2	180.2	193.7	208.7	234.3	244.8	243.3	243.3
157.5°	21.0	52.6	72.1	88.6	94.6	103.6	133.7	159.2	166.7	168.2
160°	1.5	1.5	18.0	36.0	45.1	54.1	69.1	78.1	79.6	81.1
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)