

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: P232498

Luminaire Tested: **8SKB1-LD5-12-W-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232498
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-LD5-12-W-UNV-L835-CD2-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH WIDE LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11319.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

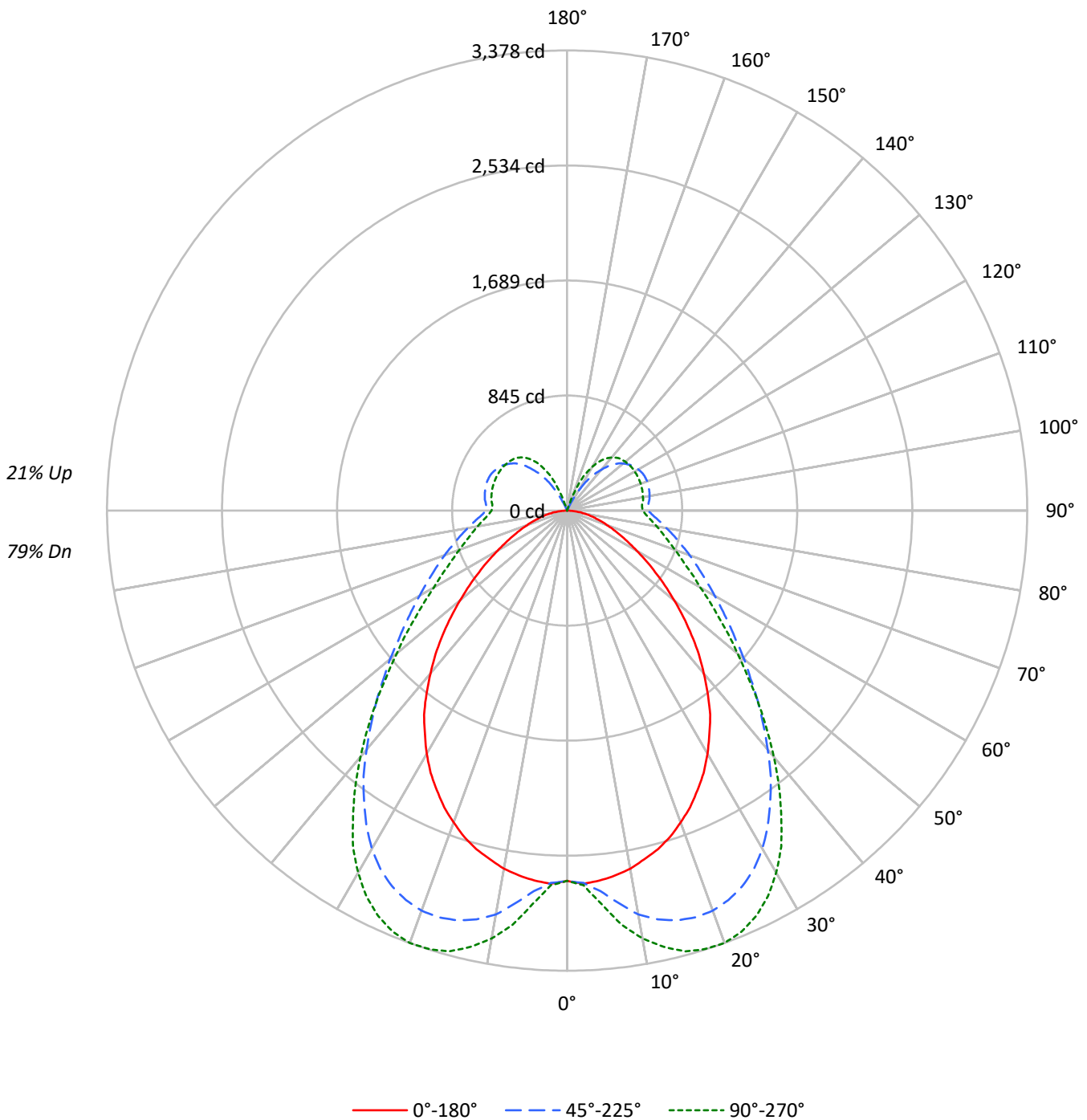
Input Watts (W): 94.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	14631	14631	14631
5°	14684	14095	14213
10°	14497	14311	14454
15°	14201	14130	14221
20°	13774	13668	13580
25°	13222	12936	12628
30°	12544	11947	11395
35°	11733	10704	9907
40°	10631	9389	8380
45°	9480	8141	6948
50°	8230	7052	5725
55°	7041	6137	4761
60°	5966	5447	4020
65°	5114	4910	3510
70°	4471	4513	3149
75°	3904	4176	2889
80°	3344	3933	2716
85°	2484	3787	2588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.4	2.4
10°-20°	862.9	7.6
20°-30°	1352.2	11.9
30°-40°	1548.4	13.7
40°-50°	1426.1	12.6
50°-60°	1170.4	10.3
60°-70°	935.8	8.3
70°-80°	751.7	6.6
80°-90°	597.9	5.3
90°-100°	534.4	4.7
100°-110°	520.5	4.6
110°-120°	471.7	4.2
120°-130°	389.8	3.4
130°-140°	279.6	2.5
140°-150°	155.4	1.4
150°-160°	46.8	0.4
160°-170°	1.0	0.0
170°-180°	0.0	0.0
0°-30°	2489.5	22.0
0°-40°	4037.9	35.7
0°-60°	6634.4	58.6
0°-90°	8919.8	78.8
90°-120°	1526.6	13.5
90°-150°	2351.4	20.8
90°-180°	2399.0	21.2
0°-180°	11319.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2719	2719	2719	2719	2719	
5°	2727	2754	2803	2899	2899	258
15°	2574	2834	3114	3310	3350	724
25°	2264	2696	3042	3257	3283	1041
35°	1831	2277	2600	2753	2740	1137
45°	1291	1719	1980	2032	1978	996
55°	790	1236	1449	1411	1353	712
65°	433	907	1089	1014	965	435
75°	213	690	838	775	744	229
85°	57	523	658	617	601	62
90°	3	464	596	568	555	4
95°	2	461	599	568	552	1
105°	2	451	622	591	571	2
115°	2	407	620	602	575	2
125°	2	317	578	597	568	1
135°	2	116	480	558	542	1
145°	2	5	295	451	456	1
155°	2	2	46	210	264	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°	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6
2.5°	2741.4	2730.0	2721.8	2730.0	2733.2	2736.5	2744.6	2743.0	2744.6	2741.4	2736.5
5°	2726.7	2716.9	2713.7	2730.0	2746.2	2754.4	2765.8	2777.2	2786.9	2800.0	2803.2
7.5°	2702.3	2697.4	2700.7	2730.0	2756.0	2775.5	2791.8	2821.1	2850.4	2879.7	2907.4
10°	2669.7	2666.5	2681.1	2725.1	2767.4	2795.1	2822.7	2876.5	2926.9	2972.5	3011.6
12.5°	2620.9	2629.0	2653.4	2712.1	2778.8	2817.9	2861.8	2928.6	2982.3	3034.4	3073.4
15°	2573.7	2578.6	2625.8	2695.8	2773.9	2834.1	2879.7	2964.4	3019.7	3073.4	3114.1
17.5°	2511.8	2523.2	2575.3	2674.6	2770.7	2824.4	2879.7	2946.5	3013.2	3075.1	3130.4
20°	2436.9	2461.4	2531.4	2640.4	2749.5	2803.2	2852.1	2933.4	3001.8	3062.0	3125.5
22.5°	2357.2	2384.8	2463.0	2593.2	2705.5	2759.3	2806.5	2896.0	2966.0	3026.2	3094.6
25°	2264.4	2300.2	2393.0	2533.0	2640.4	2695.8	2746.2	2837.4	2910.7	2970.9	3042.5
27.5°	2170.0	2210.7	2311.6	2453.2	2563.9	2616.0	2668.1	2759.3	2832.5	2892.7	2967.6
30°	2060.9	2104.9	2218.8	2355.5	2464.6	2521.6	2568.8	2658.3	2738.1	2791.8	2866.7
32.5°	1943.7	1994.2	2116.2	2248.1	2357.2	2410.9	2458.1	2544.4	2616.0	2673.0	2741.4
35°	1831.4	1872.1	1995.8	2124.4	2228.6	2277.4	2332.8	2415.8	2479.3	2537.9	2599.7
37.5°	1696.3	1745.1	1870.4	1992.5	2096.7	2148.8	2194.4	2270.9	2329.5	2384.8	2454.8
40°	1559.5	1613.2	1743.5	1852.5	1960.0	2000.7	2046.2	2116.2	2171.6	2240.0	2290.4
42.5°	1430.9	1481.4	1605.1	1715.8	1816.7	1857.4	1901.4	1974.6	2021.8	2080.4	2130.9
45°	1290.9	1343.0	1474.9	1579.0	1675.1	1719.0	1764.6	1824.9	1878.6	1925.8	1979.5
47.5°	1157.4	1219.3	1346.3	1443.9	1541.6	1582.3	1621.4	1684.9	1738.6	1789.0	1826.5
50°	1025.6	1092.3	1216.0	1321.8	1414.6	1455.3	1494.4	1557.9	1613.2	1657.2	1696.3
52.5°	905.1	975.1	1102.1	1212.8	1295.8	1338.1	1377.2	1439.0	1494.4	1535.1	1561.1
55°	789.5	867.7	999.5	1107.0	1190.0	1235.6	1266.5	1331.6	1387.0	1424.4	1448.8
57.5°	688.6	774.9	900.2	1010.9	1097.2	1137.9	1175.3	1237.2	1289.3	1325.1	1344.6
60°	589.3	685.3	815.6	923.0	1010.9	1050.0	1090.7	1152.5	1201.4	1233.9	1251.8
62.5°	506.3	607.2	742.3	846.5	936.0	975.1	1010.9	1072.8	1120.0	1152.5	1167.2
65°	433.0	538.8	675.6	779.8	866.0	906.7	944.2	1007.7	1051.6	1082.5	1089.1
67.5°	369.5	477.0	615.3	717.9	807.4	844.9	882.3	945.8	988.1	1014.2	1019.1
70°	312.6	421.6	560.0	662.5	750.5	791.2	828.6	885.6	929.5	950.7	957.2
72.5°	260.5	374.4	507.9	613.7	701.6	739.1	774.9	835.1	875.8	895.3	893.7
75°	213.3	330.5	463.9	568.1	651.2	690.2	726.0	784.6	825.3	841.6	838.4
77.5°	172.6	293.0	421.6	522.6	607.2	646.3	678.8	737.4	774.9	792.8	789.5
80°	130.2	252.3	380.9	480.2	564.9	600.7	636.5	691.9	729.3	747.2	739.1
82.5°	94.4	214.9	343.5	441.2	524.2	561.6	594.2	651.2	687.0	701.6	696.7
85°	57.0	177.4	302.8	403.7	486.7	522.6	558.4	612.1	647.9	662.5	657.7
87.5°	24.4	143.3	268.6	369.5	452.6	488.4	522.6	576.3	610.5	625.1	620.2
90°	3.3	120.5	247.4	346.7	428.1	463.9	498.1	551.9	586.0	600.7	595.8
92.5°	1.6	115.6	240.9	340.2	421.6	459.1	491.6	547.0	582.8	595.8	594.2
95°	1.6	107.4	237.7	340.2	423.2	460.7	494.9	550.2	586.0	600.7	599.1
97.5°	1.6	96.0	232.8	338.6	424.9	463.9	498.1	556.7	594.2	610.5	608.8
100°	1.6	78.1	223.0	333.7	421.6	462.3	496.5	556.7	595.8	613.7	613.7
102.5°	1.6	53.7	211.6	325.6	418.4	457.4	493.2	555.1	595.8	615.3	618.6
105°	1.6	32.6	197.0	315.8	410.2	450.9	488.4	551.9	594.2	617.0	621.9
107.5°	1.6	21.2	179.1	304.4	402.1	444.4	481.9	547.0	590.9	617.0	623.5
110°	1.6	17.9	156.3	291.4	390.7	433.0	472.1	540.5	586.0	615.3	625.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.6	14.7	120.5	273.5	377.7	421.6	462.3	529.1	579.5	608.8	623.5
115°	1.6	11.4	78.1	252.3	361.4	407.0	447.7	517.7	568.1	602.3	620.2
117.5°	1.6	9.8	50.5	227.9	343.5	389.1	431.4	503.0	556.7	592.5	613.7
120°	1.6	8.1	21.2	195.3	320.7	369.5	411.9	483.5	540.5	579.5	603.9
122.5°	1.6	6.5	16.3	146.5	294.6	345.1	389.1	463.9	520.9	564.9	590.9
125°	1.6	6.5	13.0	94.4	262.1	317.4	364.6	441.2	501.4	547.0	577.9
127.5°	1.6	4.9	11.4	63.5	223.0	284.9	335.3	415.1	477.0	524.2	558.4
130°	1.6	4.9	9.8	27.7	166.0	244.2	299.5	384.2	449.3	499.8	537.2
132.5°	1.6	3.3	8.1	11.4	102.6	188.8	253.9	345.1	416.7	470.5	512.8
135°	1.6	3.3	6.5	9.8	68.4	115.6	198.6	301.2	374.4	431.4	480.2
137.5°	1.6	3.3	4.9	8.1	27.7	76.5	122.1	252.3	328.8	389.1	439.5
140°	1.6	3.3	4.9	6.5	8.1	35.8	83.0	192.1	278.4	343.5	392.3
142.5°	1.6	3.3	4.9	4.9	6.5	8.1	40.7	112.3	223.0	293.0	346.7
145°	1.6	1.6	3.3	4.9	4.9	4.9	6.5	76.5	144.9	237.7	294.6
147.5°	1.6	1.6	3.3	3.3	4.9	4.9	4.9	30.9	89.5	167.7	237.7
150°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	45.6	91.2	161.2
152.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3	4.9	52.1	89.5
155°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9	45.6
157.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
160°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6	2718.6
2.5°	2744.6	2759.3	2765.8	2772.3	2773.9	2775.5	2772.3	2770.7	2759.3	2752.8
5°	2826.0	2861.8	2876.5	2897.6	2899.3	2900.9	2910.7	2905.8	2907.4	2899.3
7.5°	2944.8	2996.9	3019.7	3047.4	3053.9	3062.0	3078.3	3080.0	3078.3	3066.9
10°	3055.5	3099.5	3133.7	3159.7	3169.5	3176.0	3195.5	3200.4	3197.2	3189.0
12.5°	3122.3	3179.3	3213.4	3250.9	3260.7	3270.4	3286.7	3294.8	3285.1	3280.2
15°	3179.3	3239.5	3267.2	3307.9	3309.5	3327.4	3355.1	3358.3	3353.4	3350.2
17.5°	3193.9	3255.8	3296.5	3332.3	3345.3	3356.7	3373.0	3386.0	3387.6	3374.6
20°	3190.7	3249.3	3298.1	3335.5	3350.2	3358.3	3379.5	3389.3	3384.4	3377.9
22.5°	3164.6	3223.2	3272.0	3304.6	3317.6	3330.6	3350.2	3358.3	3358.3	3345.3
25°	3110.9	3169.5	3211.8	3246.0	3257.4	3270.4	3290.0	3294.8	3291.6	3283.4
27.5°	3034.4	3086.5	3128.8	3158.1	3169.5	3180.9	3202.0	3206.9	3200.4	3192.3
30°	2922.1	2975.8	3018.1	3044.1	3053.9	3062.0	3075.1	3086.5	3076.7	3068.6
32.5°	2800.0	2848.8	2878.1	2902.5	2909.0	2915.5	2928.6	2933.4	2923.7	2925.3
35°	2656.7	2699.0	2733.2	2749.5	2752.8	2751.1	2757.6	2759.3	2760.9	2739.7
37.5°	2500.4	2537.9	2554.1	2576.9	2572.1	2580.2	2586.7	2580.2	2563.9	2555.8
40°	2332.8	2357.2	2384.8	2393.0	2388.1	2399.5	2396.2	2384.8	2366.9	2360.4
42.5°	2166.7	2194.4	2204.2	2210.7	2205.8	2207.4	2200.9	2197.6	2179.7	2165.1
45°	2008.8	2028.3	2033.2	2031.6	2031.6	2023.5	2015.3	2002.3	1986.0	1977.9
47.5°	1854.2	1867.2	1868.8	1860.7	1854.2	1844.4	1846.0	1823.2	1803.7	1793.9
50°	1710.9	1715.8	1710.9	1696.3	1693.0	1681.6	1675.1	1657.2	1639.3	1634.4
52.5°	1582.3	1580.7	1570.9	1554.6	1548.1	1536.7	1525.3	1509.0	1491.1	1491.1
55°	1457.0	1452.1	1439.0	1421.1	1411.4	1406.5	1391.8	1373.9	1360.9	1352.8
57.5°	1347.9	1338.1	1321.8	1305.6	1292.5	1279.5	1269.7	1256.7	1240.4	1237.2
60°	1250.2	1230.7	1216.0	1198.1	1188.4	1177.0	1163.9	1154.2	1141.1	1128.1
62.5°	1159.1	1142.8	1123.2	1105.3	1095.6	1085.8	1072.8	1058.1	1050.0	1046.7
65°	1079.3	1063.0	1040.2	1022.3	1014.2	1004.4	994.6	978.4	973.5	965.3
67.5°	1007.7	986.5	965.3	949.1	940.9	937.7	927.9	918.1	906.7	900.2
70°	940.9	919.8	900.2	888.8	879.1	875.8	867.7	854.6	846.5	841.6
72.5°	877.4	859.5	843.2	827.0	820.5	818.8	812.3	802.5	794.4	789.5
75°	823.7	805.8	789.5	781.4	774.9	770.0	766.7	757.0	752.1	743.9
77.5°	776.5	755.3	740.7	732.5	727.7	724.4	721.2	716.3	709.8	704.9
80°	726.0	709.8	698.4	690.2	687.0	683.7	680.5	677.2	672.3	667.4
82.5°	683.7	669.1	659.3	652.8	652.8	649.5	647.9	644.6	639.8	633.2
85°	643.0	630.0	621.9	618.6	617.0	615.3	613.7	610.5	605.6	600.7
87.5°	608.8	599.1	590.9	589.3	589.3	587.7	586.0	584.4	579.5	574.6
90°	586.0	576.3	571.4	569.8	568.1	568.1	568.1	564.9	560.0	555.1
92.5°	582.8	573.0	568.1	564.9	564.9	564.9	564.9	561.6	556.7	550.2
95°	587.7	577.9	573.0	569.8	568.1	568.1	566.5	563.2	558.4	551.9
97.5°	599.1	589.3	582.8	577.9	576.3	576.3	574.6	571.4	566.5	561.6
100°	605.6	595.8	589.3	584.4	582.8	581.2	579.5	576.3	571.4	564.9
102.5°	610.5	600.7	592.5	589.3	587.7	586.0	582.8	579.5	574.6	568.1
105°	613.7	605.6	599.1	592.5	590.9	589.3	586.0	582.8	576.3	571.4
107.5°	618.6	610.5	602.3	597.4	594.2	592.5	589.3	586.0	579.5	573.0
110°	620.2	613.7	605.6	600.7	597.4	595.8	590.9	586.0	579.5	574.6



TEST NUMBER: P232498

CATALOG NUMBER: 8SKB1-LD5-12-W-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	621.9	617.0	608.8	602.3	600.7	597.4	592.5	587.7	581.2	574.6
115°	621.9	617.0	610.5	603.9	602.3	599.1	594.2	587.7	581.2	574.6
117.5°	620.2	617.0	612.1	605.6	602.3	599.1	594.2	587.7	579.5	574.6
120°	615.3	615.3	610.5	605.6	602.3	599.1	592.5	586.0	579.5	573.0
122.5°	607.2	610.5	607.2	602.3	600.7	597.4	592.5	584.4	576.3	571.4
125°	595.8	603.9	602.3	599.1	597.4	594.2	589.3	582.8	574.6	568.1
127.5°	581.2	592.5	595.8	594.2	592.5	590.9	584.4	577.9	571.4	563.2
130°	563.2	577.9	584.4	584.4	584.4	582.8	579.5	573.0	564.9	558.4
132.5°	540.5	558.4	568.1	573.0	573.0	573.0	569.8	564.9	558.4	550.2
135°	514.4	537.2	550.2	556.7	558.4	558.4	558.4	555.1	548.6	542.1
137.5°	483.5	509.5	527.4	537.2	540.5	542.1	543.7	540.5	533.9	527.4
140°	437.9	475.3	498.1	511.2	514.4	519.3	522.6	519.3	514.4	509.5
142.5°	392.3	431.4	463.9	481.9	485.1	490.0	494.9	494.9	490.0	485.1
145°	343.5	382.6	416.7	446.0	450.9	455.8	462.3	465.6	460.7	455.8
147.5°	286.5	327.2	363.0	395.6	410.2	416.7	423.2	426.5	424.9	420.0
150°	226.3	270.2	304.4	337.0	351.6	371.2	379.3	380.9	379.3	374.4
152.5°	136.7	200.2	239.3	271.9	284.9	302.8	325.6	330.5	327.2	323.9
155°	76.5	104.2	146.5	195.3	210.0	226.3	253.9	265.3	263.7	263.7
157.5°	22.8	57.0	78.1	96.0	102.6	112.3	144.9	172.6	180.7	182.3
160°	1.6	1.6	19.5	39.1	48.8	58.6	74.9	84.6	86.3	87.9
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)