

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: P232510

Luminaire Tested: **8SKB1-LD5-8-N-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232510
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-L835-CD1-U
Description: METALUX SKYBAR 8' WAVESTREAM STRIP
WITH NARROW LENS
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8008.0 lumens
Efficiency: N/A
Efficacy: 134.6 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

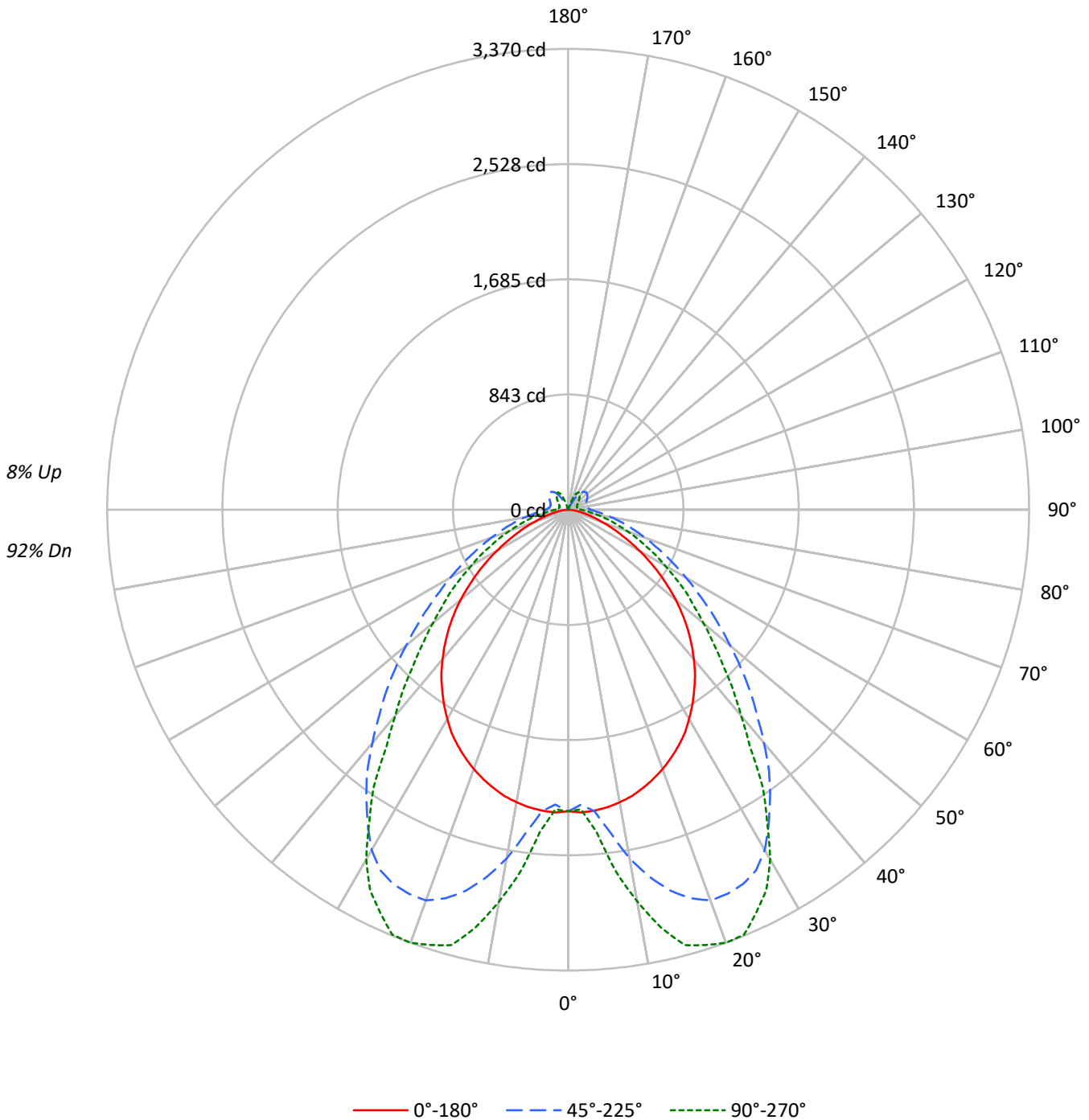
Input Watts (W): 59.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11870	11870	11870
5°	11895	11128	11581
10°	11794	12311	13193
15°	11627	13085	13995
20°	11409	13297	13546
25°	11129	12845	12501
30°	10751	11973	10965
35°	10291	10591	8977
40°	9741	9130	6981
45°	9071	7745	5601
50°	8246	6431	4520
55°	7245	5292	3700
60°	6100	4335	2918
65°	4906	3516	2262
70°	3775	2810	1724
75°	2811	2220	1248
80°	1972	1710	885
85°	1177	1289	606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.8	2.8
10°-20°	785.7	9.8
20°-30°	1293.5	16.2
30°-40°	1453.2	18.1
40°-50°	1293.2	16.1
50°-60°	1000.1	12.5
60°-70°	679.1	8.5
70°-80°	405.3	5.1
80°-90°	217.4	2.7
90°-100°	143.1	1.8
100°-110°	121.3	1.5
110°-120°	112.3	1.4
120°-130°	104.6	1.3
130°-140°	88.7	1.1
140°-150°	60.6	0.8
150°-160°	23.4	0.3
160°-170°	0.7	0.0
170°-180°	0.0	0.0
0°-30°	2305.0	28.8
0°-40°	3758.2	46.9
0°-60°	6051.5	75.6
0°-90°	7353.3	91.8
90°-120°	376.7	4.7
90°-150°	630.5	7.9
90°-180°	655.0	8.2
0°-180°	8008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2206	2206	2206	2206	2206	
5°	2209	2178	2213	2331	2362	210
15°	2107	2367	2884	3244	3297	594
25°	1906	2448	3021	3258	3250	877
35°	1606	2204	2572	2548	2482	1004
45°	1235	1704	1883	1722	1594	950
55°	812	1161	1249	1134	1051	726
65°	415	722	780	703	622	419
75°	154	435	446	384	321	168
85°	27	274	224	175	141	33
90°	2	233	163	119	92	2
95°	1	225	143	101	77	1
105°	1	204	132	86	66	1
115°	1	188	147	93	72	1
125°	1	155	171	114	89	1
135°	1	60	183	146	115	1
145°	1	5	142	166	143	1
155°	1	3	31	109	121	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	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°	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6
2.5°	2216.4	2207.7	2192.6	2191.5	2181.8	2177.4	2178.5	2175.3	2172.0	2166.6	2158.0
5°	2208.8	2192.6	2167.7	2167.7	2173.1	2178.5	2191.5	2203.4	2206.6	2214.2	2213.1
7.5°	2194.7	2169.9	2146.1	2165.5	2185.0	2192.6	2207.7	2229.4	2262.9	2324.5	2385.1
10°	2172.0	2138.5	2130.9	2162.3	2188.3	2211.0	2245.6	2346.2	2439.2	2531.1	2590.6
12.5°	2146.1	2105.0	2115.8	2155.8	2216.4	2259.6	2348.3	2481.4	2554.9	2662.0	2749.7
15°	2107.1	2068.2	2087.7	2147.2	2273.7	2366.7	2416.5	2578.7	2696.6	2785.3	2883.8
17.5°	2064.9	2030.3	2057.4	2162.3	2334.3	2424.1	2504.1	2641.5	2755.1	2885.9	2979.0
20°	2018.4	1988.1	2022.8	2181.8	2363.5	2455.4	2544.1	2675.0	2825.4	2960.6	3040.6
22.5°	1964.3	1937.3	1990.3	2190.4	2374.3	2466.2	2552.8	2705.3	2861.1	2972.5	3040.6
25°	1905.9	1878.9	1951.4	2173.1	2363.5	2447.9	2540.9	2721.5	2849.2	2936.8	3021.2
27.5°	1843.2	1812.9	1922.2	2137.4	2320.2	2415.4	2520.3	2690.2	2790.8	2888.1	2973.6
30°	1766.4	1739.4	1871.3	2085.5	2259.6	2372.1	2461.9	2614.4	2710.7	2807.0	2873.0
32.5°	1689.6	1663.6	1809.7	2011.9	2190.4	2296.4	2383.0	2501.9	2611.2	2685.8	2726.9
35°	1606.3	1577.1	1738.3	1922.2	2112.5	2204.5	2277.0	2385.1	2477.1	2532.2	2572.3
37.5°	1523.0	1491.6	1647.4	1828.1	2009.8	2094.1	2154.7	2264.0	2334.3	2379.7	2413.2
40°	1428.9	1396.5	1553.3	1722.0	1902.7	1962.2	2024.9	2122.3	2174.2	2211.0	2227.2
42.5°	1333.7	1301.3	1451.6	1610.6	1771.8	1830.2	1895.1	1971.9	2022.8	2044.4	2044.4
45°	1235.3	1203.9	1346.7	1500.3	1636.6	1703.7	1761.0	1822.6	1864.8	1882.1	1883.2
47.5°	1132.5	1106.6	1242.9	1382.4	1510.0	1568.4	1612.8	1672.3	1709.1	1713.4	1712.3
50°	1027.6	1004.9	1127.1	1264.5	1378.1	1430.0	1468.9	1524.1	1553.3	1552.2	1546.8
52.5°	917.3	903.2	1016.8	1142.3	1245.0	1291.5	1326.1	1374.8	1398.6	1398.6	1394.3
55°	812.3	803.7	902.1	1023.3	1119.5	1160.7	1193.1	1236.4	1255.8	1255.8	1249.3
57.5°	706.3	705.3	797.2	905.4	997.3	1034.1	1068.7	1106.6	1123.9	1123.9	1113.1
60°	602.5	607.9	698.8	798.3	882.7	918.4	948.6	985.4	996.2	998.4	996.2
62.5°	506.2	520.3	606.8	697.7	782.1	812.3	839.4	875.1	883.7	887.0	881.6
65°	415.4	437.0	524.6	611.2	690.1	721.5	745.3	770.2	777.7	781.0	779.9
67.5°	340.7	363.4	451.1	536.5	609.0	633.9	657.7	679.3	680.4	685.8	681.5
70°	263.9	298.5	386.2	467.3	535.4	558.2	577.6	592.8	596.0	597.1	596.0
72.5°	203.4	244.5	327.8	407.8	469.5	491.1	506.2	518.1	518.1	519.2	516.0
75°	153.6	203.4	284.5	358.0	413.2	434.8	446.7	454.3	450.0	448.9	445.7
77.5°	111.4	168.7	245.5	314.8	366.7	382.9	393.7	394.8	388.3	387.2	380.8
80°	76.8	137.4	212.0	276.9	324.5	340.7	346.1	341.8	336.4	329.9	321.3
82.5°	50.8	111.4	183.9	245.5	289.9	302.9	307.2	300.7	293.1	282.3	268.3
85°	27.0	89.8	160.1	219.6	261.8	273.7	275.8	263.9	252.0	238.0	223.9
87.5°	11.9	73.6	142.8	202.3	239.1	247.7	248.8	235.8	220.7	204.4	187.1
90°	2.2	62.7	132.0	189.3	225.0	232.6	232.6	215.3	200.1	182.8	163.3
92.5°	1.1	59.5	128.7	185.0	220.7	228.2	227.2	208.8	190.4	170.9	151.4
95°	1.1	51.9	121.1	180.6	217.4	225.0	223.9	204.4	185.0	164.4	142.8
97.5°	1.1	43.3	113.6	173.1	212.0	219.6	219.6	201.2	181.7	160.1	137.4
100°	0.0	33.5	104.9	165.5	204.4	214.2	215.3	197.9	177.4	155.8	134.1
102.5°	0.0	22.7	97.4	159.0	199.0	208.8	210.9	196.9	175.2	153.6	132.0
105°	1.1	14.1	87.6	151.4	193.6	204.4	207.7	195.8	174.2	153.6	132.0
107.5°	1.1	9.7	77.9	143.9	189.3	201.2	205.5	195.8	175.2	154.7	134.1
110°	1.1	8.7	66.0	136.3	183.9	196.9	203.4	196.9	177.4	157.9	137.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.1	6.5	49.8	126.6	177.4	192.5	201.2	197.9	180.6	161.2	141.7
115°	1.1	5.4	33.5	116.8	170.9	188.2	199.0	199.0	183.9	165.5	147.1
117.5°	1.1	5.4	22.7	103.8	163.3	182.8	194.7	200.1	188.2	169.8	153.6
120°	1.1	4.3	10.8	88.7	153.6	175.2	190.4	200.1	191.5	175.2	159.0
122.5°	1.1	4.3	8.7	68.1	142.8	166.6	183.9	199.0	194.7	179.6	165.5
125°	1.1	3.2	7.6	45.4	128.7	154.7	175.2	195.8	195.8	183.9	170.9
127.5°	1.1	3.2	6.5	32.5	110.3	141.7	163.3	190.4	195.8	187.1	176.3
130°	1.1	3.2	5.4	9.7	84.4	123.3	149.3	181.7	193.6	189.3	179.6
132.5°	1.1	2.2	5.4	7.6	54.1	96.3	129.8	167.7	187.1	189.3	182.8
135°	1.1	2.2	4.3	6.5	38.9	59.5	103.8	150.4	175.2	182.8	182.8
137.5°	1.1	2.2	4.3	5.4	17.3	44.3	64.9	129.8	160.1	174.2	177.4
140°	1.1	2.2	3.2	4.3	6.5	23.8	46.5	102.8	141.7	161.2	169.8
142.5°	1.1	2.2	3.2	4.3	5.4	5.4	28.1	59.5	119.0	143.9	157.9
145°	1.1	2.2	2.2	3.2	4.3	5.4	5.4	45.4	85.5	123.3	141.7
147.5°	1.1	1.1	2.2	3.2	4.3	4.3	4.3	20.6	50.8	94.1	121.1
150°	1.1	1.1	2.2	2.2	3.2	3.2	4.3	4.3	33.5	53.0	89.8
152.5°	1.1	1.1	2.2	2.2	3.2	3.2	3.2	4.3	4.3	35.7	49.8
155°	1.1	1.1	2.2	2.2	2.2	3.2	3.2	3.2	3.2	4.3	31.4
157.5°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	4.3
160°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	3.2	4.3
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°	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6	2205.6
2.5°	2168.8	2185.0	2185.0	2199.1	2206.6	2204.5	2206.6	2211.0	2198.0	2193.7
5°	2236.9	2269.4	2285.6	2322.4	2331.0	2347.3	2352.7	2371.1	2375.4	2362.4
7.5°	2451.1	2518.2	2561.4	2605.8	2625.3	2635.0	2652.3	2664.2	2682.6	2668.5
10°	2652.3	2733.4	2795.1	2843.8	2855.7	2865.4	2885.9	2915.1	2913.0	2910.8
12.5°	2826.5	2897.8	2973.6	3043.9	3079.6	3087.1	3117.4	3153.1	3159.6	3130.4
15°	2970.3	3069.8	3155.3	3229.9	3244.0	3263.5	3286.2	3298.1	3292.7	3297.0
17.5°	3090.4	3174.8	3235.3	3275.4	3284.0	3299.1	3319.7	3334.8	3337.0	3338.1
20°	3138.0	3194.2	3252.6	3307.8	3325.1	3340.3	3365.1	3378.1	3375.9	3369.5
22.5°	3129.3	3211.5	3265.6	3311.0	3328.4	3342.4	3364.0	3372.7	3369.5	3363.0
25°	3116.3	3186.7	3234.2	3258.0	3258.0	3268.9	3263.5	3257.0	3249.4	3250.5
27.5°	3054.7	3095.8	3128.2	3155.3	3158.5	3159.6	3156.4	3149.9	3145.5	3135.8
30°	2929.2	2979.0	2994.1	2991.9	2987.6	2986.5	2973.6	2963.8	2951.9	2953.0
32.5°	2782.1	2792.9	2799.4	2781.0	2770.2	2768.0	2756.1	2739.9	2723.7	2706.4
35°	2592.8	2585.2	2570.1	2557.1	2548.5	2535.5	2518.2	2501.9	2481.4	2482.5
37.5°	2410.0	2386.2	2364.6	2328.9	2322.4	2292.1	2258.6	2232.6	2199.1	2180.7
40°	2219.6	2195.8	2168.8	2129.8	2112.5	2084.4	2047.6	2004.4	1977.3	1966.5
42.5°	2037.9	2008.7	1977.3	1930.8	1909.2	1886.5	1847.5	1805.3	1785.9	1782.6
45°	1860.5	1827.0	1796.7	1744.8	1722.0	1695.0	1655.0	1629.0	1600.9	1594.4
47.5°	1689.6	1660.4	1613.9	1573.9	1552.2	1529.5	1488.4	1464.6	1444.1	1436.5
50°	1524.1	1496.0	1460.3	1415.9	1395.4	1373.7	1344.5	1321.8	1298.0	1290.5
52.5°	1375.9	1347.8	1311.0	1276.4	1255.8	1242.9	1215.8	1189.9	1171.5	1159.6
55°	1233.1	1207.2	1173.6	1141.2	1133.6	1116.3	1084.9	1062.2	1050.3	1051.4
57.5°	1102.2	1079.5	1053.6	1022.2	1010.3	994.1	973.5	946.5	932.4	928.1
60°	983.3	961.6	940.0	916.2	901.0	889.1	861.0	839.4	821.0	818.8
62.5°	869.7	853.5	835.1	811.3	798.3	785.3	760.4	739.9	725.8	721.5
65°	771.2	757.2	735.5	716.1	703.1	690.1	666.3	645.8	633.9	622.0
67.5°	673.9	662.0	645.8	625.2	613.3	600.3	579.8	557.1	543.0	539.8
70°	587.4	574.4	561.4	539.8	528.9	521.4	498.7	475.9	465.1	460.8
72.5°	512.7	498.7	480.3	465.1	458.6	444.6	422.9	407.8	393.7	385.1
75°	434.8	426.2	413.2	395.9	384.0	374.3	357.0	341.8	329.9	321.3
77.5°	371.0	360.2	349.4	332.1	323.4	314.8	296.4	283.4	271.5	267.2
80°	311.5	301.8	286.6	273.7	266.1	258.5	244.5	230.4	221.7	217.4
82.5°	257.4	248.8	236.9	226.1	217.4	212.0	199.0	187.1	179.6	173.1
85°	213.1	202.3	191.5	181.7	175.2	170.9	161.2	152.5	142.8	140.6
87.5°	175.2	166.6	156.8	147.1	142.8	137.4	128.7	122.2	114.7	111.4
90°	150.4	139.5	130.9	123.3	119.0	115.7	109.3	100.6	95.2	91.9
92.5°	136.3	126.6	119.0	111.4	108.2	104.9	97.4	90.9	85.5	81.1
95°	127.6	117.9	110.3	103.8	100.6	98.4	91.9	85.5	80.0	76.8
97.5°	121.1	110.3	102.8	97.4	94.1	91.9	86.5	81.1	75.7	72.5
100°	115.7	104.9	97.4	91.9	89.8	87.6	82.2	76.8	72.5	69.2
102.5°	113.6	101.7	94.1	89.8	87.6	85.5	80.0	75.7	70.3	67.1
105°	113.6	100.6	93.0	87.6	85.5	83.3	79.0	74.6	69.2	66.0
107.5°	115.7	101.7	93.0	88.7	86.5	84.4	79.0	74.6	69.2	66.0
110°	119.0	104.9	95.2	89.8	87.6	85.5	80.0	75.7	70.3	67.1



TEST NUMBER: P232510

CATALOG NUMBER: 8SKB1-LD5-8-N-UNV-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	123.3	108.2	98.4	91.9	89.8	87.6	82.2	77.9	72.5	69.2
115°	128.7	112.5	102.8	95.2	93.0	90.9	85.5	80.0	75.7	72.5
117.5°	135.2	119.0	107.1	99.5	97.4	94.1	88.7	83.3	79.0	75.7
120°	141.7	126.6	113.6	104.9	101.7	98.4	93.0	87.6	82.2	79.0
122.5°	149.3	133.0	120.1	111.4	108.2	104.9	98.4	93.0	87.6	83.3
125°	156.8	141.7	127.6	117.9	113.6	110.3	103.8	97.4	93.0	88.7
127.5°	163.3	149.3	135.2	125.5	121.1	116.8	110.3	103.8	98.4	95.2
130°	168.7	156.8	143.9	133.0	128.7	125.5	116.8	110.3	104.9	101.7
132.5°	174.2	163.3	152.5	141.7	137.4	133.0	125.5	117.9	112.5	108.2
135°	177.4	168.7	160.1	150.4	146.0	140.6	133.0	125.5	119.0	114.7
137.5°	177.4	173.1	165.5	157.9	153.6	149.3	140.6	133.0	126.6	123.3
140°	172.0	173.1	169.8	164.4	160.1	156.8	149.3	140.6	134.1	130.9
142.5°	164.4	167.7	169.8	166.6	164.4	162.3	155.8	148.2	141.7	137.4
145°	152.5	159.0	163.3	166.6	165.5	164.4	159.0	153.6	147.1	142.8
147.5°	137.4	147.1	152.5	160.1	162.3	162.3	160.1	155.8	150.4	147.1
150°	115.7	129.8	139.5	147.1	150.4	154.7	154.7	151.4	148.2	144.9
152.5°	82.2	104.9	119.0	129.8	134.1	138.5	143.9	141.7	137.4	135.2
155°	46.5	57.3	86.5	103.8	109.3	114.7	123.3	125.5	124.4	121.1
157.5°	23.8	38.9	48.7	56.2	59.5	68.1	85.5	97.4	96.3	98.4
160°	5.4	6.5	18.4	34.6	38.9	41.1	45.4	48.7	48.7	46.5
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)