

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: P232516

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232516  
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-LD5-12-N-UNV-L835-CD2-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: 12052.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 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

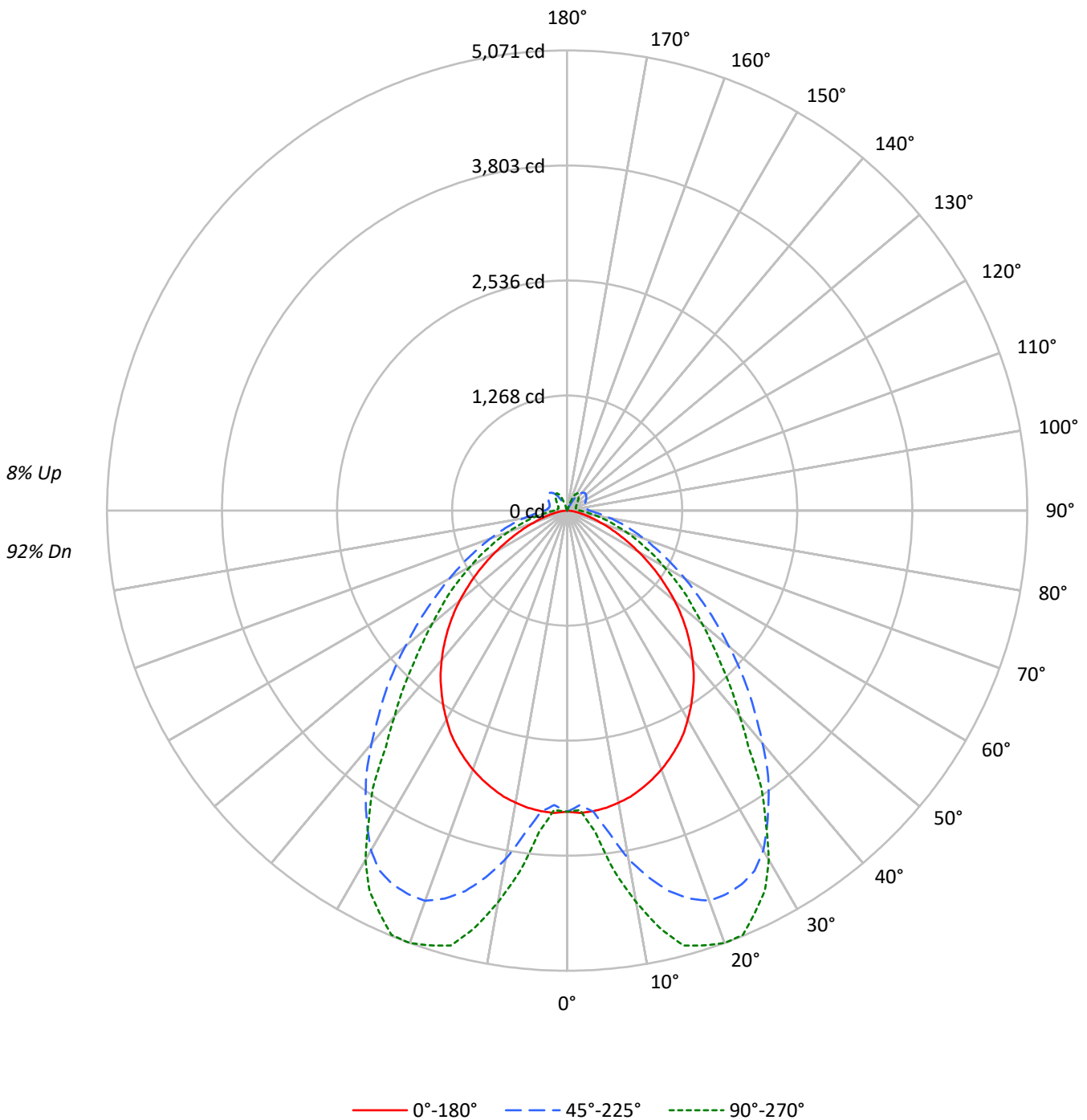
Input Watts (W): 94.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P232516

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

### 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	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°	17865	17865	17865
5°	17902	16748	17429
10°	17750	18528	19856
15°	17498	19693	21062
20°	17170	20012	20386
25°	16749	19331	18814
30°	16180	18019	16503
35°	15488	15939	13510
40°	14660	13740	10507
45°	13652	11656	8429
50°	12409	9678	6803
55°	10904	7965	5569
60°	9181	6524	4391
65°	7383	5292	3404
70°	5681	4229	2595
75°	4232	3340	1878
80°	2969	2573	1331
85°	1774	1940	911



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.8	2.8
10°-20°	1182.4	9.8
20°-30°	1946.8	16.2
30°-40°	2187.1	18.1
40°-50°	1946.3	16.1
50°-60°	1505.1	12.5
60°-70°	1022.1	8.5
70°-80°	610.0	5.1
80°-90°	327.2	2.7
90°-100°	215.3	1.8
100°-110°	182.6	1.5
110°-120°	169.0	1.4
120°-130°	157.4	1.3
130°-140°	133.5	1.1
140°-150°	91.2	0.8
150°-160°	35.2	0.3
160°-170°	1.1	0.0
170°-180°	0.0	0.0
0°-30°	3469.0	28.8
0°-40°	5656.1	46.9
0°-60°	9107.5	75.6
0°-90°	11066.7	91.8
90°-120°	566.9	4.7
90°-150°	948.9	7.9
90°-180°	985.0	8.2
0°-180°	12052.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3319	3319	3319	3319	3319	
5°	3324	3279	3331	3508	3555	316
15°	3171	3562	4340	4882	4962	894
25°	2868	3684	4547	4903	4892	1320
35°	2418	3318	3871	3835	3736	1510
45°	1859	2564	2834	2592	2400	1430
55°	1223	1747	1880	1706	1582	1092
65°	625	1086	1174	1058	936	630
75°	231	654	671	578	484	253
85°	41	412	337	264	212	50
90°	3	350	246	179	138	4
95°	2	339	215	151	116	1
105°	2	308	199	129	99	1
115°	2	283	221	140	109	2
125°	2	233	257	171	134	1
135°	2	90	275	220	173	1
145°	2	8	213	249	215	1
155°	2	5	47	164	182	1
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P232516

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4
2.5°	3335.6	3322.6	3299.8	3298.2	3283.5	3277.0	3278.7	3273.8	3268.9	3260.8	3247.7
5°	3324.2	3299.8	3262.4	3262.4	3270.5	3278.7	3298.2	3316.1	3321.0	3332.4	3330.8
7.5°	3303.1	3265.6	3229.8	3259.1	3288.4	3299.8	3322.6	3355.2	3405.6	3498.4	3589.6
10°	3268.9	3218.4	3207.0	3254.2	3293.3	3327.5	3379.6	3531.0	3671.0	3809.4	3898.9
12.5°	3229.8	3168.0	3184.2	3244.5	3335.6	3400.8	3534.2	3734.5	3845.2	4006.3	4138.2
15°	3171.2	3112.6	3141.9	3231.5	3421.9	3561.9	3636.8	3881.0	4058.4	4191.9	4340.1
17.5°	3107.7	3055.6	3096.3	3254.2	3513.1	3648.2	3768.7	3975.4	4146.3	4343.3	4483.3
20°	3037.7	2992.1	3044.2	3283.5	3557.0	3695.4	3828.9	4025.9	4252.2	4455.7	4576.1
22.5°	2956.3	2915.6	2995.4	3296.6	3573.3	3711.7	3841.9	4071.5	4305.9	4473.6	4576.1
25°	2868.4	2827.7	2936.8	3270.5	3557.0	3684.0	3824.0	4095.9	4288.0	4419.8	4546.8
27.5°	2774.0	2728.4	2892.8	3216.8	3491.9	3635.2	3793.1	4048.7	4200.1	4346.6	4475.2
30°	2658.4	2617.7	2816.3	3138.7	3400.8	3570.1	3705.2	3934.7	4079.6	4224.5	4323.8
32.5°	2542.8	2503.8	2723.5	3028.0	3296.6	3456.1	3586.3	3765.4	3929.8	4042.2	4104.0
35°	2417.5	2373.5	2616.1	2892.8	3179.4	3317.7	3426.8	3589.6	3728.0	3811.0	3871.2
37.5°	2292.1	2244.9	2479.3	2751.2	3024.7	3151.7	3242.8	3407.3	3513.1	3581.5	3631.9
40°	2150.5	2101.7	2337.7	2591.7	2863.5	2953.1	3047.5	3194.0	3272.1	3327.5	3351.9
42.5°	2007.2	1958.4	2184.7	2424.0	2666.6	2754.5	2852.1	2967.7	3044.2	3076.8	3076.8
45°	1859.1	1811.9	2026.8	2257.9	2463.1	2564.0	2650.3	2743.1	2806.6	2832.6	2834.2
47.5°	1704.4	1665.4	1870.5	2080.5	2272.6	2360.5	2427.3	2516.8	2572.1	2578.6	2577.0
50°	1546.5	1512.4	1696.3	1903.1	2074.0	2152.1	2210.7	2293.8	2337.7	2336.1	2327.9
52.5°	1380.5	1359.3	1530.3	1719.1	1873.8	1943.8	1995.8	2069.1	2104.9	2104.9	2098.4
55°	1222.6	1209.6	1357.7	1540.0	1684.9	1746.8	1795.6	1860.7	1890.0	1890.0	1880.3
57.5°	1063.0	1061.4	1199.8	1362.6	1501.0	1556.3	1608.4	1665.4	1691.4	1691.4	1675.1
60°	906.8	914.9	1051.6	1201.4	1328.4	1382.1	1427.7	1483.0	1499.3	1502.6	1499.3
62.5°	761.9	783.0	913.3	1050.0	1177.0	1222.6	1263.3	1317.0	1330.0	1334.9	1326.8
65°	625.1	657.7	789.5	919.8	1038.6	1085.8	1121.6	1159.1	1170.5	1175.4	1173.7
67.5°	512.8	547.0	678.8	807.5	916.5	954.0	989.8	1022.3	1024.0	1032.1	1025.6
70°	397.2	449.3	581.2	703.3	805.8	840.0	869.3	892.1	897.0	898.6	897.0
72.5°	306.1	367.9	493.3	613.7	706.5	739.1	761.9	779.8	779.8	781.4	776.5
75°	231.2	306.1	428.1	538.8	621.9	654.4	672.3	683.7	677.2	675.6	670.7
77.5°	167.7	254.0	369.5	473.7	551.9	576.3	592.6	594.2	584.4	582.8	573.0
80°	115.6	206.7	319.1	416.8	488.4	512.8	520.9	514.4	506.3	496.5	483.5
82.5°	76.5	167.7	276.7	369.5	436.3	455.8	462.3	452.6	441.2	424.9	403.7
85°	40.7	135.1	240.9	330.5	394.0	411.9	415.1	397.2	379.3	358.1	337.0
87.5°	17.9	110.7	214.9	304.4	359.8	372.8	374.4	354.9	332.1	307.7	281.6
90°	3.3	94.4	198.6	284.9	338.6	350.0	350.0	324.0	301.2	275.1	245.8
92.5°	1.6	89.5	193.7	278.4	332.1	343.5	341.9	314.2	286.5	257.2	227.9
95°	1.6	78.1	182.3	271.9	327.2	338.6	337.0	307.7	278.4	247.4	214.9
97.5°	1.6	65.1	170.9	260.5	319.1	330.5	330.5	302.8	273.5	240.9	206.7
100°	0.0	50.5	157.9	249.1	307.7	322.3	324.0	297.9	267.0	234.4	201.9
102.5°	0.0	34.2	146.5	239.3	299.5	314.2	317.4	296.3	263.7	231.2	198.6
105°	1.6	21.2	131.9	227.9	291.4	307.7	312.6	294.7	262.1	231.2	198.6
107.5°	1.6	14.7	117.2	216.5	284.9	302.8	309.3	294.7	263.7	232.8	201.9
110°	1.6	13.0	99.3	205.1	276.7	296.3	306.1	296.3	267.0	237.7	206.7



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	1.6	9.8	74.9	190.5	267.0	289.8	302.8	297.9	271.9	242.6	213.3
115°	1.6	8.1	50.5	175.8	257.2	283.3	299.5	299.5	276.7	249.1	221.4
117.5°	1.6	8.1	34.2	156.3	245.8	275.1	293.0	301.2	283.3	255.6	231.2
120°	1.6	6.5	16.3	133.5	231.2	263.7	286.5	301.2	288.1	263.7	239.3
122.5°	1.6	6.5	13.0	102.6	214.9	250.7	276.7	299.5	293.0	270.2	249.1
125°	1.6	4.9	11.4	68.4	193.7	232.8	263.7	294.7	294.7	276.7	257.2
127.5°	1.6	4.9	9.8	48.8	166.0	213.3	245.8	286.5	294.7	281.6	265.4
130°	1.6	4.9	8.1	14.7	127.0	185.6	224.7	273.5	291.4	284.9	270.2
132.5°	1.6	3.3	8.1	11.4	81.4	144.9	195.4	252.3	281.6	284.9	275.1
135°	1.6	3.3	6.5	9.8	58.6	89.5	156.3	226.3	263.7	275.1	275.1
137.5°	1.6	3.3	6.5	8.1	26.0	66.7	97.7	195.4	240.9	262.1	267.0
140°	1.6	3.3	4.9	6.5	9.8	35.8	70.0	154.7	213.3	242.6	255.6
142.5°	1.6	3.3	4.9	6.5	8.1	8.1	42.3	89.5	179.1	216.5	237.7
145°	1.6	3.3	3.3	4.9	6.5	8.1	8.1	68.4	128.6	185.6	213.3
147.5°	1.6	1.6	3.3	4.9	6.5	6.5	6.5	30.9	76.5	141.6	182.3
150°	1.6	1.6	3.3	3.3	4.9	4.9	6.5	6.5	50.5	79.8	135.1
152.5°	1.6	1.6	3.3	3.3	4.9	4.9	4.9	6.5	6.5	53.7	74.9
155°	1.6	1.6	3.3	3.3	3.3	4.9	4.9	4.9	4.9	6.5	47.2
157.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	4.9	4.9	6.5	6.5
160°	1.6	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	6.5
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°	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4	3319.4
2.5°	3264.0	3288.4	3288.4	3309.6	3321.0	3317.7	3321.0	3327.5	3308.0	3301.5
5°	3366.6	3415.4	3439.8	3495.2	3508.2	3532.6	3540.8	3568.4	3574.9	3555.4
7.5°	3688.9	3789.8	3854.9	3921.7	3951.0	3965.6	3991.7	4009.6	4037.3	4016.1
10°	3991.7	4113.8	4206.6	4279.8	4297.7	4312.4	4343.3	4387.3	4384.0	4380.8
12.5°	4253.8	4361.2	4475.2	4581.0	4634.7	4646.1	4691.7	4745.4	4755.2	4711.2
15°	4470.3	4620.1	4748.7	4861.0	4882.2	4911.5	4945.7	4963.6	4955.4	4961.9
17.5°	4651.0	4778.0	4869.2	4929.4	4942.4	4965.2	4996.1	5018.9	5022.2	5023.8
20°	4722.6	4807.3	4895.2	4978.2	5004.3	5027.1	5064.5	5084.0	5080.8	5071.0
22.5°	4709.6	4833.3	4914.7	4983.1	5009.2	5030.3	5062.9	5075.9	5071.0	5061.2
25°	4690.1	4795.9	4867.5	4903.3	4903.3	4919.6	4911.5	4901.7	4890.3	4891.9
27.5°	4597.3	4659.1	4708.0	4748.7	4753.6	4755.2	4750.3	4740.5	4734.0	4719.4
30°	4408.4	4483.3	4506.1	4502.9	4496.4	4494.7	4475.2	4460.5	4442.6	4444.3
32.5°	4187.0	4203.3	4213.1	4185.4	4169.1	4165.9	4148.0	4123.6	4099.1	4073.1
35°	3902.2	3890.8	3868.0	3848.4	3835.4	3815.9	3789.8	3765.4	3734.5	3736.1
37.5°	3627.0	3591.2	3558.7	3504.9	3495.2	3449.6	3399.1	3360.1	3309.6	3281.9
40°	3340.5	3304.7	3264.0	3205.4	3179.4	3137.0	3081.7	3016.6	2975.9	2959.6
42.5°	3067.0	3023.1	2975.9	2905.9	2873.3	2839.1	2780.5	2717.0	2687.7	2682.8
45°	2800.0	2749.6	2704.0	2625.9	2591.7	2551.0	2490.7	2451.7	2409.3	2399.6
47.5°	2542.8	2498.9	2428.9	2368.6	2336.1	2301.9	2240.0	2204.2	2173.3	2161.9
50°	2293.8	2251.4	2197.7	2131.0	2100.0	2067.5	2023.5	1989.3	1953.5	1942.1
52.5°	2070.7	2028.4	1973.1	1921.0	1890.0	1870.5	1829.8	1790.7	1763.1	1745.1
55°	1855.8	1816.8	1766.3	1717.5	1706.1	1680.0	1632.8	1598.6	1580.7	1582.4
57.5°	1658.9	1624.7	1585.6	1538.4	1520.5	1496.1	1465.1	1424.4	1403.3	1396.8
60°	1479.8	1447.2	1414.7	1378.9	1356.1	1338.2	1295.8	1263.3	1235.6	1232.3
62.5°	1308.9	1284.4	1256.8	1221.0	1201.4	1181.9	1144.4	1113.5	1092.3	1085.8
65°	1160.7	1139.6	1107.0	1077.7	1058.2	1038.6	1002.8	971.9	954.0	936.1
67.5°	1014.2	996.3	971.9	940.9	923.0	903.5	872.6	838.4	817.2	812.3
70°	884.0	864.4	844.9	812.3	796.1	784.7	750.5	716.3	700.0	693.5
72.5°	771.6	750.5	722.8	700.0	690.2	669.1	636.5	613.7	592.6	579.5
75°	654.4	641.4	621.9	595.8	577.9	563.3	537.2	514.4	496.5	483.5
77.5°	558.4	542.1	525.8	499.8	486.8	473.7	446.1	426.5	408.6	402.1
80°	468.8	454.2	431.4	411.9	400.5	389.1	367.9	346.8	333.7	327.2
82.5°	387.4	374.4	356.5	340.2	327.2	319.1	299.5	281.6	270.2	260.5
85°	320.7	304.4	288.1	273.5	263.7	257.2	242.6	229.5	214.9	211.6
87.5°	263.7	250.7	236.1	221.4	214.9	206.7	193.7	184.0	172.6	167.7
90°	226.3	210.0	197.0	185.6	179.1	174.2	164.4	151.4	143.3	138.4
92.5°	205.1	190.5	179.1	167.7	162.8	157.9	146.5	136.7	128.6	122.1
95°	192.1	177.4	166.0	156.3	151.4	148.1	138.4	128.6	120.5	115.6
97.5°	182.3	166.0	154.7	146.5	141.6	138.4	130.2	122.1	114.0	109.1
100°	174.2	157.9	146.5	138.4	135.1	131.9	123.7	115.6	109.1	104.2
102.5°	170.9	153.0	141.6	135.1	131.9	128.6	120.5	114.0	105.8	100.9
105°	170.9	151.4	140.0	131.9	128.6	125.4	118.8	112.3	104.2	99.3
107.5°	174.2	153.0	140.0	133.5	130.2	127.0	118.8	112.3	104.2	99.3
110°	179.1	157.9	143.3	135.1	131.9	128.6	120.5	114.0	105.8	100.9





TEST NUMBER: P232516

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

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	185.6	162.8	148.1	138.4	135.1	131.9	123.7	117.2	109.1	104.2
115°	193.7	169.3	154.7	143.3	140.0	136.7	128.6	120.5	114.0	109.1
117.5°	203.5	179.1	161.2	149.8	146.5	141.6	133.5	125.4	118.8	114.0
120°	213.3	190.5	170.9	157.9	153.0	148.1	140.0	131.9	123.7	118.8
122.5°	224.7	200.2	180.7	167.7	162.8	157.9	148.1	140.0	131.9	125.4
125°	236.1	213.3	192.1	177.4	170.9	166.0	156.3	146.5	140.0	133.5
127.5°	245.8	224.7	203.5	188.8	182.3	175.8	166.0	156.3	148.1	143.3
130°	254.0	236.1	216.5	200.2	193.7	188.8	175.8	166.0	157.9	153.0
132.5°	262.1	245.8	229.5	213.3	206.7	200.2	188.8	177.4	169.3	162.8
135°	267.0	254.0	240.9	226.3	219.8	211.6	200.2	188.8	179.1	172.6
137.5°	267.0	260.5	249.1	237.7	231.2	224.7	211.6	200.2	190.5	185.6
140°	258.8	260.5	255.6	247.4	240.9	236.1	224.7	211.6	201.9	197.0
142.5°	247.4	252.3	255.6	250.7	247.4	244.2	234.4	223.0	213.3	206.7
145°	229.5	239.3	245.8	250.7	249.1	247.4	239.3	231.2	221.4	214.9
147.5°	206.7	221.4	229.5	240.9	244.2	244.2	240.9	234.4	226.3	221.4
150°	174.2	195.4	210.0	221.4	226.3	232.8	232.8	227.9	223.0	218.1
152.5°	123.7	157.9	179.1	195.4	201.9	208.4	216.5	213.3	206.7	203.5
155°	70.0	86.3	130.2	156.3	164.4	172.6	185.6	188.8	187.2	182.3
157.5°	35.8	58.6	73.3	84.7	89.5	102.6	128.6	146.5	144.9	148.1
160°	8.1	9.8	27.7	52.1	58.6	61.9	68.4	73.3	73.3	70.0
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)