

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: P236414

Luminaire Tested: **SKB4-LD5-36-W-UNV-L850-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236414  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB4-LD5-36-W-UNV-L850-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

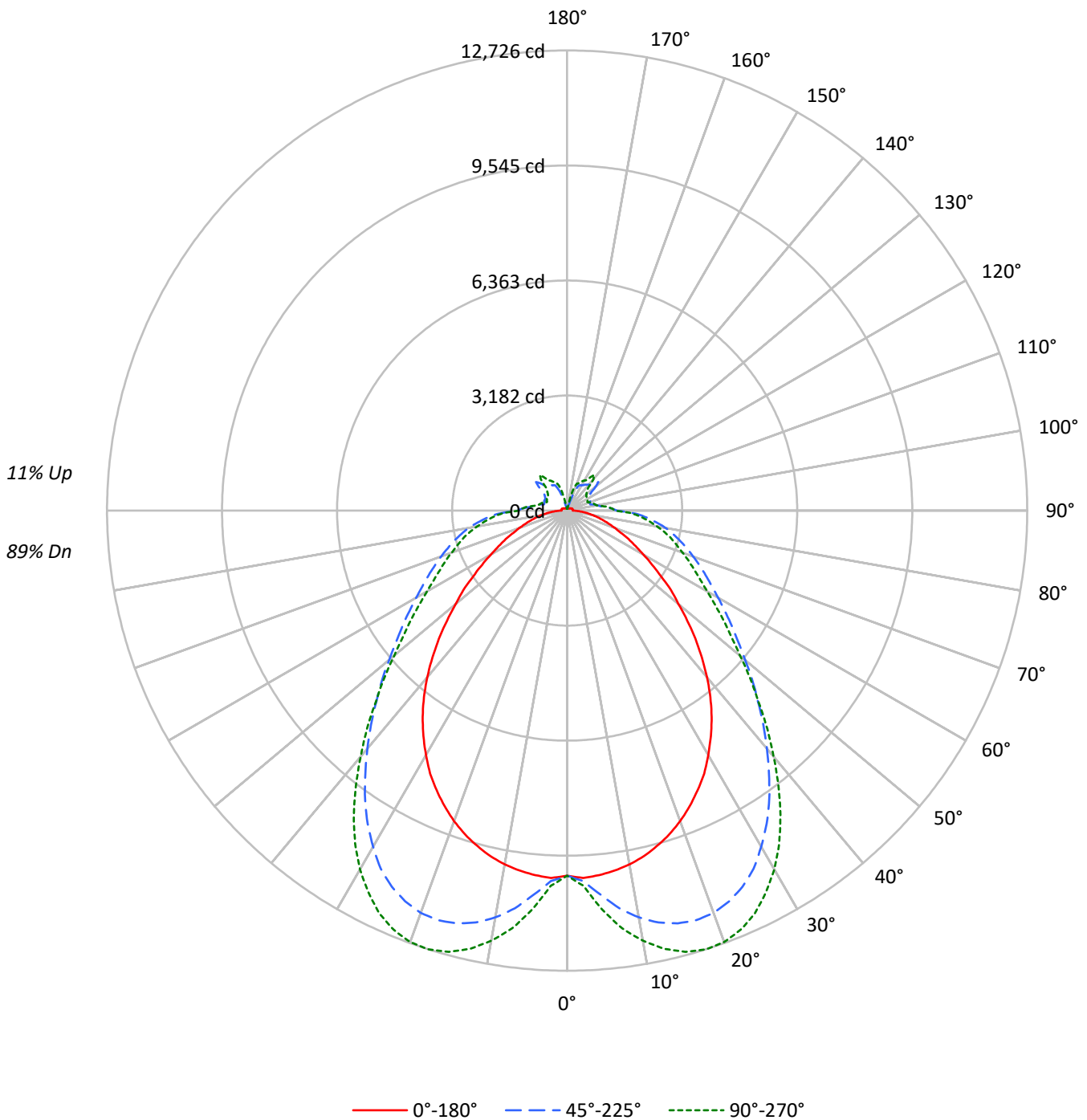
Lumens per Lamp: N/A  
Luminaire Lumens: 38021.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 333.5  
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

TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	105	99	95	90	101	96	92	88	90	86	83	84	81	78	78	76	74	71
2	95	86	79	73	91	83	77	71	78	73	68	73	69	65	68	65	62	59
3	87	76	67	61	83	73	66	60	69	62	57	65	59	55	61	56	52	50
4	79	67	58	52	76	65	57	51	61	54	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	44	39	37
6	68	54	45	39	65	53	44	38	50	43	37	47	41	36	44	39	35	32
7	63	49	41	34	60	48	40	34	45	38	33	43	37	32	41	35	31	29
8	58	45	37	31	56	44	36	30	42	35	29	39	33	29	37	32	28	26
9	55	41	33	28	53	40	33	27	38	31	27	36	30	26	35	29	25	23
10	51	38	30	25	49	37	30	25	35	29	24	34	28	24	32	27	23	21

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

	0°	45°	90°
0°	14491	14491	14491
5°	14515	15213	15793
10°	14348	16317	17265
15°	14072	17034	18230
20°	13700	17353	18642
25°	13200	17249	18502
30°	12556	16678	17842
35°	11777	15798	16722
40°	10801	14679	15226
45°	9679	13579	13666
50°	8443	12613	12303
55°	7385	11935	11383
60°	6401	11533	10770
65°	5725	11497	10632
70°	5141	11824	10926
75°	4800	12542	11684
80°	4542	13823	12805
85°	4409	15660	14909



TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1032.6	2.7
10°-20°	3249.9	8.5
20°-30°	5072.8	13.3
30°-40°	5811.7	15.3
40°-50°	5403.4	14.2
50°-60°	4506.0	11.9
60°-70°	3673.0	9.7
70°-80°	2941.7	7.7
80°-90°	2020.7	5.3
90°-100°	1008.4	2.7
100°-110°	681.8	1.8
110°-120°	612.5	1.6
120°-130°	604.4	1.6
130°-140°	591.8	1.6
140°-150°	469.0	1.2
150°-160°	258.5	0.7
160°-170°	74.8	0.2
170°-180°	7.9	0.0
0°-30°	9355.3	24.6
0°-40°	15167.1	39.9
0°-60°	25076.5	66.0
0°-90°	33711.8	88.7
90°-120°	2302.7	6.1
90°-150°	3968.0	10.4
90°-180°	4309.0	11.3
0°-180°	38021.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10097	10097	10097	10097	10097	
5°	10121	10272	10666	10935	11068	960
15°	9603	10712	11819	12426	12635	2704
25°	8538	10200	11479	12078	12290	3925
35°	6967	8639	9745	10227	10287	4342
45°	5017	6529	7462	7600	7481	3862
55°	3171	4737	5556	5403	5271	2858
65°	1874	3542	4223	3980	3877	1862
75°	1034	2721	3236	3027	2981	1097
85°	427	1897	2205	2077	2055	408
90°	156	1139	1366	1332	1325	104
95°	159	791	1076	1108	1134	128
105°	153	576	669	743	754	162
115°	132	854	679	633	622	133
125°	111	769	766	679	655	99
135°	84	693	1077	871	789	67
145°	74	508	876	1006	1134	47
155°	73	113	766	839	867	34
165°	73	99	135	413	509	20
175°	70	73	82	84	68	7
180°	64	64	64	64	64	



TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6
2.5°	10170.9	10153.8	10130.6	10160.0	10161.6	10155.4	10158.5	10187.9	10206.5	10240.5	10259.1
5°	10121.3	10115.1	10119.8	10183.2	10242.0	10271.5	10299.3	10392.2	10486.6	10582.5	10666.1
7.5°	10042.4	10054.8	10093.5	10221.9	10350.4	10413.8	10485.0	10659.9	10814.7	10950.8	11094.8
10°	9935.6	9957.3	10053.2	10251.3	10458.7	10557.8	10664.5	10879.7	11093.2	11277.4	11424.4
12.5°	9791.7	9830.4	9989.8	10262.2	10534.5	10666.1	10803.8	11053.0	11278.9	11491.0	11668.9
15°	9602.9	9681.8	9890.7	10239.0	10565.5	10712.5	10861.1	11138.1	11388.8	11624.1	11819.1
17.5°	9390.9	9500.7	9765.4	10166.2	10534.5	10686.2	10847.2	11142.8	11415.1	11664.3	11877.9
20°	9140.2	9273.2	9598.2	10047.0	10427.8	10588.7	10760.5	11071.6	11357.9	11617.9	11839.2
22.5°	8853.8	9014.8	9397.1	9870.6	10257.5	10423.1	10601.1	10926.1	11223.2	11483.2	11698.3
25°	8538.1	8720.8	9144.8	9630.7	10017.6	10200.3	10370.5	10700.1	10986.4	11258.8	11478.6
27.5°	8205.4	8384.9	8836.8	9332.1	9712.8	9898.5	10074.9	10398.4	10687.8	10943.1	11167.5
30°	7804.6	8010.4	8479.3	8963.7	9369.2	9545.6	9703.5	10017.6	10310.1	10550.0	10734.2
32.5°	7399.1	7609.6	8094.0	8584.6	8956.0	9109.2	9281.0	9575.0	9839.7	10076.5	10269.9
35°	6967.3	7193.3	7645.2	8106.4	8466.9	8638.7	8810.5	9093.7	9329.0	9553.4	9745.3
37.5°	6506.1	6710.4	7187.1	7649.8	7968.6	8145.0	8292.1	8545.9	8804.3	9014.8	9169.6
40°	6017.1	6222.9	6696.5	7137.6	7465.6	7623.5	7738.0	8008.9	8245.6	8470.0	8593.8
42.5°	5514.1	5761.7	6202.8	6612.9	6914.7	7097.3	7187.1	7473.4	7687.0	7891.2	8029.0
45°	5017.3	5240.2	5685.9	6089.8	6404.0	6529.3	6657.8	6910.1	7149.9	7323.3	7462.5
47.5°	4509.7	4746.5	5187.6	5585.3	5882.4	6043.4	6188.9	6417.9	6637.7	6806.4	6945.6
50°	4016.0	4297.7	4735.7	5122.6	5418.2	5548.2	5695.2	5952.1	6157.9	6322.0	6425.7
52.5°	3624.5	3858.2	4316.3	4681.5	4984.8	5128.8	5252.6	5537.3	5737.0	5870.1	5958.3
55°	3171.0	3451.2	3893.8	4269.8	4594.8	4737.2	4884.2	5122.6	5311.4	5472.3	5555.9
57.5°	2785.7	3073.5	3525.4	3917.0	4242.0	4392.1	4540.7	4775.9	4966.3	5097.8	5172.1
60°	2431.3	2762.5	3206.6	3596.6	3932.5	4093.4	4231.2	4450.9	4632.0	4769.7	4820.8
62.5°	2131.1	2453.0	2917.2	3318.1	3664.7	3804.0	3937.1	4172.3	4358.1	4466.4	4506.6
65°	1874.1	2194.5	2657.2	3065.8	3412.5	3542.5	3680.2	3915.4	4082.6	4195.6	4223.4
67.5°	1609.5	1960.8	2428.2	2847.6	3174.1	3313.4	3445.0	3678.7	3847.3	3943.3	3958.8
70°	1400.6	1751.9	2227.0	2655.7	2960.6	3104.5	3232.9	3460.4	3616.8	3712.7	3711.2
72.5°	1202.5	1561.5	2045.9	2451.4	2768.7	2906.4	3034.9	3262.4	3410.9	3474.4	3463.5
75°	1033.8	1382.0	1883.4	2268.8	2581.4	2720.7	2856.9	3061.2	3186.5	3243.8	3236.0
77.5°	863.6	1219.5	1724.0	2101.6	2406.5	2538.1	2666.5	2849.1	2979.1	3024.0	2997.7
80°	711.9	1074.0	1558.4	1929.9	2228.6	2338.4	2454.5	2637.1	2739.3	2785.7	2767.1
82.5°	568.0	934.8	1397.5	1744.2	2016.5	2131.1	2242.5	2395.7	2491.6	2521.0	2488.5
85°	427.1	787.7	1221.1	1541.4	1785.9	1897.4	1985.6	2131.1	2205.3	2228.6	2205.3
87.5°	297.1	640.7	1033.8	1310.8	1524.4	1617.2	1691.5	1818.4	1877.2	1908.2	1892.7
90°	156.3	427.1	733.6	933.2	1081.8	1139.0	1200.9	1287.6	1344.9	1372.7	1366.5
92.5°	151.7	323.4	575.7	756.8	896.1	961.1	1033.8	1143.7	1205.6	1248.9	1252.0
95°	159.4	267.7	436.4	572.6	718.1	790.8	852.7	937.8	1004.4	1061.7	1075.6
97.5°	156.3	275.5	399.3	513.8	600.5	646.9	713.4	817.1	879.0	916.2	922.4
100°	156.3	290.9	419.4	487.5	575.7	602.0	628.3	684.0	772.3	821.8	846.5
102.5°	154.8	297.1	453.4	492.1	560.2	602.0	622.1	650.0	682.5	727.4	772.3
105°	153.2	301.8	481.3	538.6	550.9	575.7	615.9	656.2	665.5	667.0	668.6
107.5°	151.7	286.3	493.7	631.4	581.9	586.5	598.9	650.0	677.9	671.7	659.3
110°	147.0	247.6	493.7	628.3	636.1	620.6	617.5	639.2	671.7	685.6	671.7



TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	140.8	210.5	485.9	631.4	775.3	693.3	659.3	651.5	663.9	679.4	688.7
115°	131.5	171.8	481.3	631.4	773.8	854.3	741.3	685.6	674.8	676.3	679.4
117.5°	126.9	147.0	492.1	629.9	736.7	843.4	922.4	741.3	704.2	688.7	680.9
120°	122.3	136.2	464.3	622.1	738.2	781.5	897.6	869.8	753.7	716.5	698.0
122.5°	116.1	131.5	417.9	609.8	730.5	780.0	818.7	1029.2	837.3	758.3	727.4
125°	111.4	125.4	352.9	609.8	716.5	769.2	812.5	959.5	1080.2	829.5	766.1
127.5°	105.2	117.6	280.1	622.1	698.0	752.1	798.6	871.3	1066.3	1016.8	848.1
130°	97.5	111.4	210.5	575.7	680.9	730.5	778.4	857.4	953.3	1129.8	1038.4
132.5°	91.3	103.7	140.8	512.3	670.1	710.4	755.2	837.3	902.3	1029.2	1168.4
135°	83.6	96.0	111.4	436.4	684.0	693.3	732.0	815.6	882.1	933.2	1077.1
137.5°	80.5	92.9	106.8	351.3	636.1	710.4	713.4	787.7	858.9	914.6	958.0
140°	77.4	89.8	103.7	238.3	560.2	671.7	730.5	761.4	831.1	888.3	936.3
142.5°	74.3	86.7	99.0	154.8	472.0	597.4	699.5	742.9	800.1	858.9	906.9
145°	74.3	85.1	97.5	114.5	373.0	507.6	617.5	758.3	772.3	823.3	875.9
147.5°	72.7	83.6	96.0	105.2	246.1	393.1	520.0	702.6	769.2	793.9	837.3
150°	72.7	82.0	94.4	103.7	157.9	269.3	407.0	606.7	752.1	778.4	803.2
152.5°	72.7	80.5	94.4	102.1	109.9	164.0	280.1	478.2	648.4	772.3	792.4
155°	72.7	78.9	92.9	100.6	108.3	113.0	157.9	359.0	523.1	662.4	766.1
157.5°	72.7	78.9	91.3	99.0	105.2	109.9	111.4	196.5	385.4	523.1	640.7
160°	72.7	77.4	88.2	97.5	102.1	106.8	109.9	119.2	204.3	371.4	484.4
162.5°	72.7	75.8	85.1	94.4	100.6	102.1	105.2	109.9	116.1	178.0	258.4
165°	72.7	74.3	82.0	91.3	97.5	99.0	100.6	105.2	109.9	113.0	134.6
167.5°	71.2	74.3	78.9	85.1	92.9	96.0	97.5	100.6	103.7	106.8	109.9
170°	71.2	72.7	75.8	80.5	85.1	88.2	91.3	94.4	97.5	99.0	100.6
172.5°	69.6	71.2	72.7	75.8	78.9	80.5	82.0	85.1	89.8	92.9	94.4
175°	69.6	69.6	69.6	71.2	72.7	72.7	74.3	75.8	77.4	80.5	82.0
177.5°	68.1	69.6	68.1	68.1	68.1	68.1	68.1	68.1	69.6	69.6	69.6
180°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5



TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6	10096.6
2.5°	10290.0	10305.5	10297.8	10345.7	10361.2	10347.3	10355.0	10370.5	10381.3	10387.5
5°	10741.9	10805.4	10848.7	10918.3	10935.4	10975.6	10995.7	11039.1	11070.0	11068.5
7.5°	11223.2	11308.3	11385.7	11453.8	11500.2	11523.5	11554.4	11613.2	11650.4	11656.6
10°	11582.3	11692.2	11786.6	11873.2	11932.0	11939.8	12017.1	12060.5	12100.7	12079.1
12.5°	11842.3	11958.3	12069.8	12190.5	12226.1	12263.2	12317.4	12382.4	12418.0	12413.3
15°	12000.1	12134.8	12263.2	12379.3	12425.7	12456.7	12529.4	12600.6	12631.5	12634.6
17.5°	12063.6	12207.5	12337.5	12462.9	12504.6	12540.2	12616.1	12682.6	12719.8	12726.0
20°	12026.4	12175.0	12309.6	12435.0	12473.7	12512.4	12588.2	12656.3	12696.5	12699.6
22.5°	11891.8	12038.8	12182.7	12298.8	12336.0	12379.3	12444.3	12512.4	12543.3	12544.9
25°	11659.7	11803.6	11932.0	12038.8	12077.5	12128.6	12192.0	12241.6	12277.1	12289.5
27.5°	11325.4	11463.1	11593.1	11679.8	11727.7	11769.5	11819.1	11893.3	11899.5	11905.7
30°	10896.7	11056.1	11175.3	11246.4	11277.4	11337.7	11371.8	11410.5	11463.1	11456.9
32.5°	10423.1	10571.7	10658.4	10771.3	10796.1	10827.0	10847.2	10895.1	10907.5	10913.7
35°	9890.7	10022.3	10087.3	10180.1	10226.6	10231.2	10256.0	10293.1	10293.1	10286.9
37.5°	9315.0	9452.8	9514.7	9551.8	9568.8	9590.5	9587.4	9607.5	9579.7	9598.2
40°	8751.7	8847.7	8864.7	8901.8	8918.8	8925.0	8912.7	8898.7	8864.7	8884.8
42.5°	8151.2	8219.3	8267.3	8250.3	8261.1	8248.7	8222.4	8180.6	8189.9	8196.1
45°	7560.0	7601.8	7600.3	7643.6	7600.3	7575.5	7549.2	7518.3	7504.3	7481.1
47.5°	7006.0	7024.6	7029.2	7006.0	6968.9	6987.4	6908.5	6886.8	6863.6	6865.2
50°	6470.5	6493.7	6486.0	6438.0	6407.1	6374.6	6328.2	6287.9	6263.2	6239.9
52.5°	6000.1	5992.3	5945.9	5916.5	5876.3	5859.2	5786.5	5767.9	5733.9	5719.9
55°	5577.6	5546.6	5498.6	5453.8	5402.7	5379.5	5334.6	5294.4	5261.9	5271.1
57.5°	5172.1	5136.5	5083.9	5017.3	4983.3	4958.5	4904.4	4882.7	4844.0	4845.5
60°	4811.5	4768.2	4703.2	4641.3	4608.8	4576.3	4536.0	4506.6	4481.9	4474.1
62.5°	4497.3	4447.8	4382.8	4319.4	4283.8	4257.5	4214.1	4181.6	4156.9	4155.3
65°	4203.3	4136.7	4060.9	4006.7	3980.4	3957.2	3924.7	3887.6	3870.6	3876.7
67.5°	3920.1	3858.2	3794.7	3737.5	3706.5	3692.6	3674.0	3647.7	3635.3	3640.0
70°	3664.7	3584.3	3536.3	3488.3	3466.6	3462.0	3434.1	3412.5	3406.3	3398.5
72.5°	3415.6	3350.6	3296.4	3254.6	3248.4	3234.5	3208.2	3202.0	3180.3	3175.7
75°	3183.4	3118.4	3072.0	3033.3	3027.1	3019.4	3000.8	2996.2	2976.0	2980.7
77.5°	2945.1	2892.5	2849.1	2824.4	2804.3	2796.5	2782.6	2771.8	2764.0	2760.9
80°	2695.9	2640.2	2601.5	2583.0	2572.1	2561.3	2553.5	2538.1	2530.3	2525.7
82.5°	2426.6	2383.3	2349.3	2336.9	2329.1	2335.3	2312.1	2310.6	2305.9	2298.2
85°	2166.6	2120.2	2087.7	2081.5	2076.9	2069.1	2066.1	2058.3	2055.2	2055.2
87.5°	1852.5	1812.2	1793.7	1804.5	1787.5	1798.3	1796.8	1787.5	1781.3	1803.0
90°	1344.9	1327.8	1318.6	1327.8	1332.5	1329.4	1327.8	1317.0	1324.7	1324.7
92.5°	1245.8	1233.4	1235.0	1230.3	1239.6	1241.2	1245.8	1241.2	1247.4	1245.8
95°	1077.1	1080.2	1089.5	1098.8	1108.1	1108.1	1118.9	1125.1	1126.7	1134.4
97.5°	919.3	914.6	936.3	947.1	942.5	950.2	956.4	968.8	971.9	962.6
100°	846.5	835.7	832.6	829.5	829.5	824.9	824.9	829.5	832.6	824.9
102.5°	778.4	784.6	784.6	781.5	781.5	783.1	784.6	787.7	790.8	787.7
105°	696.4	725.8	735.1	741.3	742.9	744.4	749.0	755.2	755.2	753.7
107.5°	650.0	633.0	656.2	680.9	690.2	698.0	711.9	719.6	722.7	721.2
110°	654.6	634.5	614.4	623.7	619.0	608.2	623.7	642.3	654.6	659.3





TEST NUMBER: P236414

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L850-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	670.1	648.4	636.1	623.7	617.5	612.9	609.8	612.9	611.3	605.1
115°	680.9	667.0	648.4	636.1	633.0	631.4	631.4	628.3	625.2	622.1
117.5°	676.3	670.1	665.5	656.2	654.6	651.5	645.4	640.7	634.5	631.4
120°	682.5	671.7	663.9	660.8	662.4	662.4	659.3	657.7	651.5	648.4
122.5°	704.2	684.0	673.2	668.6	665.5	663.9	660.8	657.7	651.5	648.4
125°	736.7	711.9	694.9	682.5	679.4	676.3	670.1	663.9	657.7	654.6
127.5°	783.1	750.6	730.5	713.4	707.3	699.5	690.2	677.9	671.7	668.6
130°	862.0	806.3	775.3	752.1	741.3	735.1	722.7	710.4	699.5	694.9
132.5°	1097.3	902.3	843.4	804.8	797.0	783.1	764.5	750.6	738.2	733.6
135°	1188.6	1197.8	958.0	894.5	871.3	848.1	826.4	806.3	792.4	789.3
137.5°	1094.2	1190.1	1247.4	1159.2	1072.5	981.2	931.7	900.7	879.0	866.7
140°	976.5	1066.3	1171.5	1224.2	1248.9	1262.8	1253.6	1202.5	1137.5	1128.2
142.5°	950.2	981.2	1010.6	1118.9	1154.5	1182.4	1211.8	1230.3	1241.2	1241.2
145°	917.7	953.3	976.5	996.7	1005.9	1013.7	1078.7	1122.0	1134.4	1134.4
147.5°	883.7	914.6	944.0	965.7	976.5	985.8	993.6	999.8	998.2	996.7
150°	840.3	872.8	902.3	927.0	937.8	944.0	958.0	964.2	962.6	959.5
152.5°	801.7	831.1	858.9	879.0	891.4	900.7	911.5	920.8	922.4	920.8
155°	804.8	798.6	815.6	835.7	838.8	848.1	860.5	869.8	866.7	866.7
157.5°	730.5	789.3	812.5	803.2	801.7	804.8	809.4	817.1	817.1	812.5
160°	577.3	659.3	719.6	775.3	784.6	795.5	806.3	807.8	801.7	793.9
162.5°	396.2	461.2	543.2	603.6	623.7	645.4	674.8	696.4	704.2	694.9
165°	178.0	227.5	334.3	382.3	413.2	430.2	456.5	473.6	495.2	509.2
167.5°	111.4	116.1	136.2	150.1	165.6	181.1	191.9	205.8	218.2	241.4
170°	102.1	103.7	105.2	105.2	105.2	103.7	102.1	99.0	97.5	92.9
172.5°	96.0	96.0	96.0	94.4	96.0	94.4	92.9	89.8	83.6	78.9
175°	83.6	85.1	83.6	85.1	83.6	83.6	82.0	77.4	71.2	68.1
177.5°	69.6	69.6	69.6	68.1	66.5	65.0	63.5	58.8	54.2	49.5
180°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5

(END OF REPORT)