

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: P236400

Luminaire Tested: **SKB4-LD5-36-N-UNV-L835-CD4-U**

Issue Date: 3/3/2020



**Test Information**

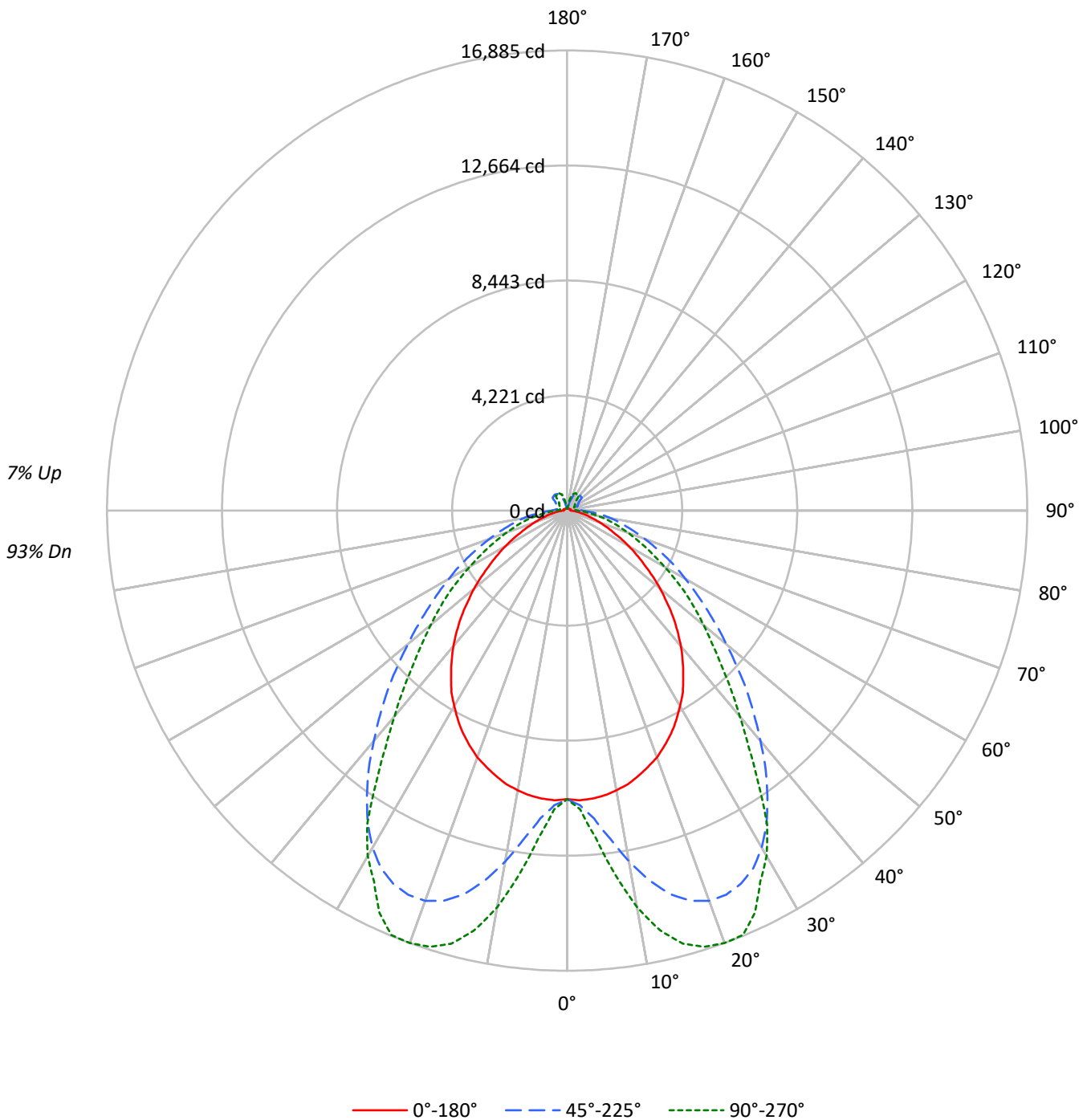
Test Method: LM-79-08  
Report Number: P236400  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB4-LD5-36-N-UNV-L835-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39121.0 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.56 / 1.53  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: Direct  
  
Input Watts (W): 333.5  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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: P236400  
CATALOG NUMBER: SKB4-LD5-36-N-UNV-L835-CD4-U

### Luminous Intensity Polar Plot





TEST NUMBER: P236400

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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	114	114	114	114	107	107	107	101	101	101	96	96	96	93
1	107	103	99	95	104	100	96	93	94	91	89	89	87	85	85	83	81	78
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66
3	90	80	72	66	87	78	71	65	74	68	63	70	65	61	67	63	59	57
4	83	71	63	57	80	70	62	56	66	60	54	63	57	53	60	55	51	49
5	76	64	55	49	74	63	55	49	60	53	47	57	51	46	55	49	45	43
6	71	58	49	43	68	57	49	43	54	47	42	52	46	41	50	44	40	38
7	66	53	44	38	64	51	44	38	49	42	37	47	41	36	45	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	44	37	33	42	36	32	30
9	57	44	36	31	55	43	36	31	42	35	30	40	34	30	39	33	29	27
10	54	41	33	28	52	40	33	28	39	32	27	37	31	27	36	30	27	25

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

	0°	45°	90°
0°	15192	15192	15192
5°	15214	16175	17205
10°	15050	18666	21124
15°	14780	20992	23739
20°	14446	22334	24787
25°	13956	22693	24524
30°	13321	22182	22788
35°	12547	20772	19894
40°	11653	18843	16883
45°	10586	16948	14565
50°	9358	14963	12889
55°	8041	13322	11490
60°	6872	11956	9932
65°	5638	10811	8653
70°	4661	9640	7591
75°	3843	8736	6848
80°	3318	8146	5938
85°	3041	7343	5182



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1128.9	2.9
10°-20°	3926.9	10.0
20°-30°	6407.6	16.4
30°-40°	7168.1	18.3
40°-50°	6342.8	16.2
50°-60°	4912.4	12.6
60°-70°	3391.5	8.7
70°-80°	2108.8	5.4
80°-90°	1047.1	2.7
90°-100°	435.7	1.1
100°-110°	364.7	0.9
110°-120°	401.2	1.0
120°-130°	416.4	1.1
130°-140°	407.8	1.0
140°-150°	351.9	0.9
150°-160°	222.7	0.6
160°-170°	78.3	0.2
170°-180°	8.3	0.0
0°-30°	11463.4	29.3
0°-40°	18631.4	47.6
0°-60°	29886.6	76.4
0°-90°	36434.1	93.1
90°-120°	1201.6	3.1
90°-150°	2377.7	6.1
90°-180°	2687.0	6.9
0°-180°	39121.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10585	10585	10585	10585	10585	
5°	10609	10849	11341	11780	12058	###
15°	10086	11852	14565	16003	16452	2842
25°	9027	12198	15102	16181	16289	4147
35°	7423	10777	12814	12577	12238	4639
45°	5487	8193	9314	8551	7974	4216
55°	3453	5559	6202	5667	5321	3112
65°	1846	3602	3971	3465	3155	1862
75°	828	2366	2254	1986	1747	900
85°	295	1308	1034	826	714	287
90°	118	753	567	457	387	77
95°	128	538	421	328	292	106
105°	133	501	323	283	264	142
115°	118	675	421	318	287	119
125°	105	701	514	382	346	94
135°	84	630	710	489	424	66
145°	77	489	726	700	667	49
155°	77	218	626	694	694	36
165°	78	88	253	423	480	22
175°	77	77	78	81	69	7
180°	75	75	75	75	75	



TEST NUMBER: P236400

CATALOG NUMBER: SKB4-LD5-36-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3
2.5°	10641.2	10619.1	10620.6	10651.5	10667.8	10660.4	10684.0	10717.8	10759.1	10807.7	10825.4
5°	10608.8	10598.5	10644.2	10738.5	10816.5	10848.9	10896.1	11002.1	11117.0	11206.9	11340.9
7.5°	10539.6	10549.9	10657.4	10812.1	10971.2	11043.4	11128.8	11321.8	11601.7	11852.1	12152.6
10°	10421.8	10464.5	10647.1	10869.6	11118.5	11264.3	11430.8	11821.1	12277.8	12672.6	13068.8
12.5°	10286.2	10359.9	10588.2	10894.6	11310.0	11544.2	11816.7	12372.1	12918.6	13406.1	13886.3
15°	10085.9	10219.9	10505.7	10918.2	11525.1	11852.1	12182.0	12821.3	13470.9	14083.7	14565.4
17.5°	9863.5	10043.2	10383.5	10952.0	11703.3	12073.0	12438.3	13167.5	13914.3	14500.6	15007.3
20°	9638.1	9820.8	10221.4	10952.0	11797.6	12210.0	12613.6	13428.2	14144.1	14749.5	15237.1
22.5°	9336.1	9589.5	10037.3	10896.1	11812.3	12255.7	12697.6	13490.1	14214.8	14777.5	15254.8
25°	9026.8	9269.8	9828.1	10757.6	11722.4	12198.2	12621.0	13412.0	14101.4	14647.9	15101.6
27.5°	8671.8	8929.6	9557.1	10548.4	11536.8	11993.5	12411.8	13167.5	13853.9	14378.3	14790.8
30°	8280.0	8565.7	9249.2	10240.6	11224.6	11666.5	12078.9	12797.8	13450.3	13912.9	14276.7
32.5°	7901.4	8153.3	8869.2	9869.4	10828.3	11251.1	11635.5	12335.2	12909.7	13322.2	13609.4
35°	7422.6	7690.7	8444.9	9434.8	10349.6	10776.8	11093.5	11743.1	12270.4	12594.5	12814.0
37.5°	6967.5	7209.1	7967.7	8950.2	9800.1	10168.4	10507.2	11097.9	11558.9	11852.1	11962.6
40°	6491.7	6711.2	7456.5	8383.1	9185.9	9527.6	9845.8	10386.4	10791.5	11000.7	11031.6
42.5°	5987.9	6179.4	6921.8	7780.6	8539.2	8870.6	9185.9	9644.0	9991.6	10184.6	10150.7
45°	5487.1	5638.8	6366.5	7173.7	7880.8	8193.0	8446.4	8882.4	9199.1	9305.2	9314.0
47.5°	4943.5	5111.4	5797.9	6578.6	7240.0	7505.1	7730.5	8150.3	8405.2	8472.9	8433.2
50°	4451.5	4600.3	5230.8	5951.1	6580.1	6801.0	7042.6	7431.5	7614.1	7684.8	7623.0
52.5°	3946.3	4103.9	4694.6	5360.4	5915.7	6192.7	6373.8	6724.4	6874.7	6913.0	6889.4
55°	3452.8	3636.9	4193.7	4796.2	5339.8	5559.3	5783.2	6074.8	6204.4	6198.5	6201.5
57.5°	3016.8	3168.5	3707.6	4289.5	4806.5	4993.6	5193.9	5438.5	5560.7	5590.2	5587.2
60°	2610.2	2760.5	3281.9	3799.0	4299.8	4500.1	4657.8	4861.0	4968.6	4990.7	4998.0
62.5°	2214.0	2381.9	2875.4	3385.0	3853.5	4043.5	4182.0	4376.4	4444.2	4458.9	4503.1
65°	1845.7	2041.6	2514.5	3019.7	3439.5	3601.6	3723.8	3887.4	3962.5	4008.1	3971.3
67.5°	1536.4	1747.0	2211.0	2706.0	3089.0	3237.7	3349.7	3476.4	3541.2	3548.6	3466.1
70°	1269.8	1495.1	1942.9	2406.9	2775.2	2910.7	3012.4	3114.0	3102.2	3058.0	3025.6
72.5°	1032.6	1269.8	1730.8	2162.4	2502.7	2623.5	2706.0	2766.4	2701.6	2672.1	2623.5
75°	827.8	1079.7	1548.2	1954.7	2262.6	2365.7	2405.5	2395.2	2352.4	2308.3	2253.8
77.5°	657.0	919.2	1372.9	1764.7	2035.7	2100.6	2119.7	2081.4	2022.5	1981.2	1928.2
80°	520.0	789.5	1227.0	1590.9	1782.4	1828.0	1839.8	1786.8	1723.5	1688.1	1630.7
82.5°	396.2	674.7	1087.1	1390.5	1542.3	1570.3	1562.9	1504.0	1452.4	1387.6	1330.2
85°	294.6	565.6	936.9	1179.9	1288.9	1308.1	1290.4	1228.5	1174.0	1109.2	1034.1
87.5°	206.2	464.0	767.5	953.1	1038.5	1037.0	1016.4	961.9	897.1	839.6	780.7
90°	117.8	330.0	564.2	687.9	748.3	752.7	736.5	689.4	651.1	617.2	567.1
92.5°	120.8	251.9	427.2	562.7	630.5	637.8	636.4	605.4	564.2	522.9	486.1
95°	128.2	209.2	332.9	441.9	517.0	537.7	546.5	528.8	497.9	461.1	421.3
97.5°	132.6	219.5	327.0	403.6	447.8	461.1	474.3	465.5	441.9	411.0	378.6
100°	137.0	241.6	352.1	416.9	446.3	446.3	439.0	421.3	406.6	383.0	353.5
102.5°	137.0	251.9	387.4	444.9	471.4	468.4	462.5	419.8	378.6	363.8	341.7
105°	132.6	256.3	421.3	493.5	499.4	500.8	489.0	453.7	403.6	360.9	322.6
107.5°	132.6	251.9	434.5	524.4	536.2	527.3	518.5	481.7	433.1	391.8	346.2
110°	129.6	247.5	440.4	565.6	596.6	565.6	546.5	509.7	461.1	413.9	378.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	123.7	231.3	436.0	577.4	633.4	621.6	586.3	534.7	486.1	439.0	399.2
115°	117.8	207.7	422.8	578.9	658.4	674.7	665.8	568.6	509.7	462.5	421.3
117.5°	114.9	188.5	416.9	578.9	676.1	693.8	702.6	618.7	537.7	483.2	443.4
120°	112.0	165.0	403.6	573.0	677.6	707.1	718.8	710.0	577.4	508.2	461.1
122.5°	109.0	142.9	388.9	562.7	673.2	707.1	729.2	729.2	655.5	540.6	483.2
125°	104.6	128.2	350.6	543.6	664.3	701.2	727.7	742.4	717.4	596.6	514.1
127.5°	100.2	113.4	321.1	527.3	651.1	690.9	718.8	743.9	736.5	695.3	561.2
130°	95.7	100.2	284.3	514.1	631.9	674.7	707.1	740.9	738.0	726.2	677.6
132.5°	89.9	92.8	241.6	484.6	605.4	655.5	690.9	732.1	742.4	721.8	721.8
135°	84.0	85.4	195.9	422.8	581.9	630.5	673.2	720.3	739.5	732.1	710.0
137.5°	81.0	82.5	153.2	374.2	576.0	603.9	646.7	707.1	733.6	736.5	723.3
140°	79.5	79.5	122.3	331.4	542.1	593.6	618.7	686.4	721.8	733.6	729.2
142.5°	78.1	78.1	101.6	284.3	459.6	570.1	605.4	659.9	707.1	727.7	730.6
145°	76.6	78.1	89.9	228.3	400.7	489.0	590.7	629.0	683.5	714.4	726.2
147.5°	76.6	78.1	86.9	169.4	346.2	412.5	499.4	618.7	651.1	693.8	715.9
150°	76.6	76.6	85.4	120.8	285.8	359.4	422.8	581.9	623.1	662.9	692.3
152.5°	76.6	76.6	84.0	100.2	218.0	296.1	360.9	472.8	611.3	627.5	655.5
155°	76.6	76.6	82.5	91.3	147.3	218.0	293.1	394.8	496.4	612.8	626.0
157.5°	78.1	78.1	81.0	88.4	109.0	144.4	207.7	325.5	406.6	500.8	593.6
160°	78.1	78.1	79.5	86.9	94.3	104.6	128.2	228.3	327.0	391.8	459.6
162.5°	78.1	78.1	79.5	84.0	89.9	92.8	98.7	138.5	228.3	316.7	368.3
165°	78.1	78.1	78.1	81.0	86.9	88.4	91.3	100.2	126.7	185.6	253.4
167.5°	78.1	78.1	78.1	79.5	82.5	85.4	86.9	91.3	95.7	103.1	126.7
170°	78.1	78.1	78.1	78.1	79.5	81.0	82.5	85.4	88.4	89.9	92.8
172.5°	76.6	78.1	76.6	76.6	76.6	78.1	78.1	79.5	81.0	82.5	84.0
175°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	78.1
177.5°	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	75.1	75.1
180°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3	10585.3
2.5°	10854.8	10865.1	10869.6	10918.2	10922.6	10916.7	10924.1	10974.1	10975.6	10975.6
5°	11420.5	11528.0	11654.7	11744.5	11779.9	11793.2	11899.2	11950.8	11964.0	12058.3
7.5°	12438.3	12590.1	12777.1	12940.7	13034.9	13089.4	13188.1	13310.4	13361.9	13466.5
10°	13410.6	13712.5	13958.5	14169.2	14310.6	14365.1	14499.1	14658.2	14773.1	14779.0
12.5°	14291.4	14655.3	14941.0	15203.2	15285.7	15382.9	15542.0	15652.5	15755.6	15782.1
15°	15002.9	15337.3	15636.3	15900.0	16003.1	16073.8	16234.4	16353.7	16414.1	16452.4
17.5°	15449.2	15773.3	16051.7	16287.4	16368.4	16450.9	16586.4	16689.5	16757.3	16780.9
20°	15628.9	15939.8	16196.1	16418.5	16498.0	16568.7	16698.4	16801.5	16866.3	16885.4
22.5°	15626.0	15913.2	16172.5	16381.7	16464.2	16543.7	16673.3	16764.7	16828.0	16856.0
25°	15450.7	15740.9	15973.6	16137.1	16181.3	16228.5	16291.8	16302.1	16339.0	16288.9
27.5°	15100.1	15350.5	15465.4	15506.7	15500.8	15489.0	15446.3	15406.5	15400.6	15349.1
30°	14515.3	14661.2	14712.7	14677.4	14690.6	14602.2	14586.0	14562.5	14603.7	14633.2
32.5°	13762.6	13831.8	13759.7	13716.9	13687.5	13671.3	13681.6	13686.0	13672.8	13655.1
35°	12877.3	12812.5	12730.0	12601.9	12576.8	12526.7	12439.8	12376.5	12324.9	12238.0
37.5°	11922.8	11819.7	11732.8	11576.6	11473.5	11426.4	11243.7	11114.1	10984.5	10943.2
40°	10966.8	10843.0	10735.5	10560.2	10476.3	10382.0	10138.9	10034.3	9923.9	9851.7
42.5°	10074.1	9981.3	9816.3	9627.8	9473.1	9356.7	9165.3	9026.8	8947.2	8895.7
45°	9202.1	9082.8	8875.1	8671.8	8551.0	8433.2	8254.9	8131.2	8016.3	7973.6
47.5°	8378.6	8215.1	8048.7	7836.6	7705.5	7612.7	7493.4	7347.5	7256.2	7212.0
50°	7540.5	7416.8	7238.5	7036.7	6961.6	6864.4	6724.4	6619.8	6549.1	6537.3
52.5°	6802.5	6692.0	6532.9	6348.8	6256.0	6207.4	6073.3	5980.5	5940.8	5912.8
55°	6138.2	6040.9	5880.4	5739.0	5666.8	5613.8	5494.4	5407.5	5376.6	5320.6
57.5°	5513.6	5444.4	5329.5	5180.7	5132.1	5054.0	4918.5	4827.1	4740.2	4700.5
60°	4967.1	4884.6	4750.6	4619.5	4526.6	4444.2	4310.1	4218.8	4128.9	4126.0
62.5°	4445.6	4335.2	4179.0	4022.9	3959.5	3905.0	3763.6	3669.3	3617.8	3613.4
65°	3882.9	3779.8	3650.2	3538.2	3464.6	3414.5	3337.9	3239.2	3177.3	3155.3
67.5°	3382.1	3304.0	3200.9	3103.7	3052.1	3006.5	2893.0	2815.0	2753.1	2736.9
70°	2957.9	2887.2	2804.7	2694.2	2648.5	2597.0	2502.7	2418.7	2359.8	2361.3
72.5°	2566.0	2502.7	2426.1	2328.9	2281.7	2249.3	2162.4	2102.0	2049.0	2032.8
75°	2203.7	2149.2	2102.0	2019.5	1985.7	1944.4	1863.4	1807.4	1766.2	1747.0
77.5°	1891.4	1851.6	1783.9	1704.3	1677.8	1624.8	1552.6	1499.6	1458.3	1456.8
80°	1574.7	1514.3	1458.3	1386.1	1353.7	1318.4	1247.7	1202.0	1172.5	1171.1
82.5°	1268.3	1216.7	1162.2	1094.5	1072.4	1045.9	1003.1	958.9	938.3	917.7
85°	992.8	944.2	898.6	854.4	826.4	811.6	767.5	749.8	717.4	714.4
87.5°	739.5	704.1	682.0	642.2	629.0	618.7	590.7	564.2	553.9	540.6
90°	530.3	500.8	484.6	459.6	456.6	441.9	430.1	411.0	394.8	387.4
92.5°	450.8	419.8	402.1	383.0	374.2	369.7	353.5	340.3	334.4	327.0
95°	388.9	363.8	347.6	334.4	328.5	322.6	312.3	304.9	296.1	291.7
97.5°	347.6	328.5	315.2	303.4	299.0	296.1	287.2	279.9	274.0	269.6
100°	327.0	307.9	296.1	287.2	281.4	278.4	271.0	265.1	260.7	257.8
102.5°	318.2	300.5	290.2	282.8	279.9	275.5	269.6	265.1	260.7	257.8
105°	312.3	300.5	290.2	284.3	282.8	279.9	274.0	271.0	268.1	263.7
107.5°	312.3	284.3	278.4	284.3	284.3	281.4	276.9	274.0	271.0	268.1
110°	340.3	310.8	291.7	275.5	268.1	263.7	259.3	262.2	265.1	260.7





TEST NUMBER: P236400

CATALOG NUMBER: SKB4-LD5-36-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	366.8	338.8	315.2	296.1	290.2	284.3	281.4	278.4	272.5	271.0
115°	385.9	355.0	337.3	324.1	318.2	313.8	304.9	297.6	293.1	287.2
117.5°	406.6	374.2	350.6	334.4	330.0	327.0	322.6	318.2	313.8	310.8
120°	425.7	393.3	368.3	352.1	346.2	340.3	334.4	327.0	321.1	316.7
122.5°	441.9	412.5	387.4	368.3	363.8	357.9	349.1	341.7	334.4	331.4
125°	467.0	431.6	405.1	387.4	381.5	377.1	366.8	359.4	350.6	346.2
127.5°	494.9	456.6	428.7	406.6	399.2	391.8	381.5	372.7	365.3	362.4
130°	546.5	489.0	455.2	430.1	421.3	413.9	402.1	390.4	381.5	378.6
132.5°	667.3	556.8	492.0	459.6	449.3	436.0	422.8	411.0	400.7	397.7
135°	718.8	664.3	627.5	511.1	489.0	475.8	450.8	437.5	424.2	424.2
137.5°	701.2	707.1	692.3	646.7	634.9	620.1	531.8	486.1	468.4	464.0
140°	717.4	696.7	680.5	707.1	701.2	690.9	640.8	624.6	614.3	608.4
142.5°	724.7	714.4	698.2	682.0	677.6	671.7	682.0	692.3	692.3	687.9
145°	727.7	721.8	714.4	704.1	699.7	693.8	686.4	677.6	670.2	667.3
147.5°	723.3	723.3	718.8	714.4	710.0	707.1	699.7	693.8	686.4	683.5
150°	711.5	718.8	718.8	718.8	717.4	715.9	708.5	701.2	696.7	693.8
152.5°	685.0	701.2	710.0	713.0	714.4	717.4	717.4	715.9	711.5	708.5
155°	645.2	667.3	682.0	690.9	693.8	695.3	699.7	698.2	696.7	693.8
157.5°	624.6	624.6	645.2	662.9	665.8	670.2	674.7	674.7	670.2	668.8
160°	543.6	606.9	624.6	618.7	620.1	624.6	631.9	637.8	642.2	637.8
162.5°	411.0	455.2	511.1	565.6	583.3	596.6	618.7	617.2	612.8	611.3
165°	310.8	359.4	384.5	406.6	422.8	434.5	455.2	472.8	478.7	480.2
167.5°	176.8	216.5	257.8	290.2	303.4	321.1	328.5	344.7	349.1	341.7
170°	97.2	106.1	116.4	132.6	135.5	147.3	160.6	185.6	190.0	178.2
172.5°	86.9	88.4	89.9	91.3	91.3	91.3	91.3	91.3	86.9	82.5
175°	78.1	79.5	79.5	81.0	81.0	81.0	79.5	76.6	72.2	69.2
177.5°	75.1	75.1	75.1	75.1	75.1	75.1	73.7	69.2	64.8	61.9
180°	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1

(END OF REPORT)