

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: P236409

Luminaire Tested: **SKB4-LD5-30-W-UNV-L835-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236409  
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-LD5-30-W-UNV-L835-CD4-U  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL  
Light Source: (952) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

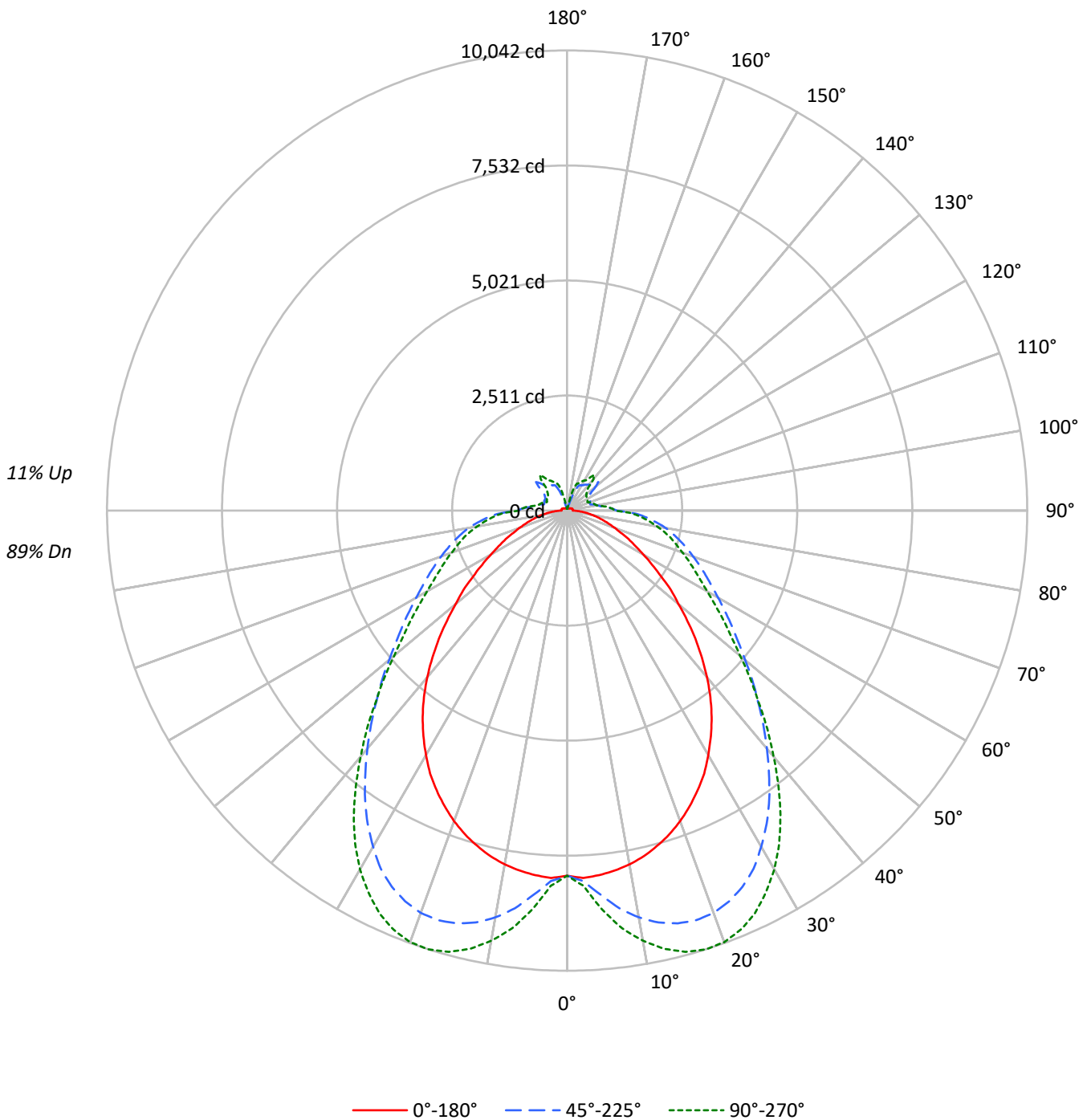
Lumens per Lamp: N/A  
Luminaire Lumens: 30002.0 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 260.5  
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	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°	11434	11434	11434
5°	11454	12004	12462
10°	11322	12876	13624
15°	11104	13442	14385
20°	10811	13693	14710
25°	10416	13611	14600
30°	9908	13160	14079
35°	9293	12466	13195
40°	8523	11583	12015
45°	7638	10715	10784
50°	6662	9952	9708
55°	5827	9418	8982
60°	5051	9100	8498
65°	4518	9073	8390
70°	4057	9330	8621
75°	3788	9897	9219
80°	3584	10908	10105
85°	3480	12357	11765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	814.8	2.7
10°-20°	2564.5	8.5
20°-30°	4002.9	13.3
30°-40°	4586.0	15.3
40°-50°	4263.8	14.2
50°-60°	3555.6	11.9
60°-70°	2898.3	9.7
70°-80°	2321.3	7.7
80°-90°	1594.5	5.3
90°-100°	795.7	2.7
100°-110°	538.0	1.8
110°-120°	483.3	1.6
120°-130°	476.9	1.6
130°-140°	467.0	1.6
140°-150°	370.1	1.2
150°-160°	204.0	0.7
160°-170°	59.0	0.2
170°-180°	6.2	0.0
0°-30°	7382.2	24.6
0°-40°	11968.2	39.9
0°-60°	19787.6	66.0
0°-90°	26601.7	88.7
90°-120°	1817.1	6.1
90°-150°	3131.1	10.4
90°-180°	3400.0	11.3
0°-180°	30002.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7967	7967	7967	7967	7967	
5°	7987	8105	8416	8629	8734	757
15°	7578	8453	9326	9805	9970	2134
25°	6737	8049	9058	9530	9698	3097
35°	5498	6817	7690	8070	8117	3426
45°	3959	5152	5889	5997	5903	3048
55°	2502	3738	4384	4263	4159	2255
65°	1479	2795	3333	3141	3059	1469
75°	816	2147	2554	2389	2352	865
85°	337	1497	1740	1639	1622	322
90°	123	899	1078	1052	1045	82
95°	126	624	849	874	895	101
105°	121	454	528	586	595	128
115°	104	674	536	500	491	105
125°	88	607	604	536	517	78
135°	66	547	850	688	623	53
145°	59	401	691	794	895	37
155°	57	89	604	662	684	27
165°	57	78	106	326	402	16
175°	55	57	65	66	54	5
180°	50	50	50	50	50	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1
2.5°	8025.7	8012.3	7994.0	8017.2	8018.4	8013.5	8016.0	8039.2	8053.8	8080.7	8095.3
5°	7986.6	7981.8	7985.4	8035.5	8081.9	8105.1	8127.1	8200.4	8274.8	8350.6	8416.5
7.5°	7924.4	7934.1	7964.7	8066.0	8167.4	8217.5	8273.6	8411.6	8533.7	8641.2	8754.8
10°	7840.1	7857.2	7932.9	8089.2	8252.9	8331.0	8415.3	8585.0	8753.6	8898.9	9014.9
12.5°	7726.5	7757.1	7882.8	8097.8	8312.7	8416.5	8525.2	8721.8	8900.1	9067.4	9207.8
15°	7577.5	7639.8	7804.7	8079.5	8337.1	8453.1	8570.4	8789.0	8986.8	9172.4	9326.3
17.5°	7410.2	7496.9	7705.8	8022.1	8312.7	8432.4	8559.4	8792.6	9007.6	9204.2	9372.7
20°	7212.4	7317.4	7573.9	7928.0	8228.4	8355.4	8491.0	8736.5	8962.4	9167.5	9342.2
22.5°	6986.5	7113.5	7415.1	7788.8	8094.1	8224.8	8365.2	8621.7	8856.1	9061.3	9231.0
25°	6737.4	6881.5	7216.1	7599.5	7904.8	8048.9	8183.3	8443.4	8669.3	8884.2	9057.6
27.5°	6474.8	6616.5	6973.0	7363.8	7664.2	7810.8	7950.0	8205.2	8433.6	8635.1	8812.2
30°	6158.5	6320.9	6691.0	7073.2	7393.1	7532.4	7656.9	7904.8	8135.6	8324.9	8470.2
32.5°	5838.6	6004.6	6386.9	6774.0	7067.1	7188.0	7323.5	7555.6	7764.4	7951.2	8103.9
35°	5497.8	5676.1	6032.7	6396.6	6681.2	6816.7	6952.3	7175.8	7361.4	7538.5	7689.9
37.5°	5133.9	5295.1	5671.3	6036.4	6288.0	6427.2	6543.2	6743.5	6947.4	7113.5	7235.6
40°	4748.0	4910.4	5284.1	5632.2	5891.1	6015.6	6106.0	6319.7	6506.6	6683.6	6781.3
42.5°	4351.1	4546.5	4894.6	5218.2	5456.3	5600.4	5671.3	5897.2	6065.7	6226.9	6335.6
45°	3959.1	4135.0	4486.7	4805.4	5053.3	5152.2	5253.6	5452.7	5641.9	5778.7	5888.6
47.5°	3558.6	3745.4	4093.5	4407.3	4641.8	4768.8	4883.6	5064.3	5237.7	5370.8	5480.7
50°	3169.0	3391.3	3736.9	4042.2	4275.4	4378.0	4494.0	4696.7	4859.2	4988.6	5070.4
52.5°	2860.0	3044.5	3405.9	3694.1	3933.5	4047.1	4144.8	4369.5	4527.0	4632.0	4701.6
55°	2502.2	2723.3	3072.5	3369.3	3625.7	3738.1	3854.1	4042.2	4191.2	4318.2	4384.1
57.5°	2198.2	2425.3	2781.9	3090.9	3347.3	3465.8	3583.0	3768.6	3918.8	4022.6	4081.2
60°	1918.5	2179.8	2530.3	2838.1	3103.1	3230.1	3338.8	3512.2	3655.1	3763.7	3804.0
62.5°	1681.6	1935.6	2302.0	2618.3	2891.8	3001.7	3106.7	3292.4	3438.9	3524.4	3556.1
65°	1478.9	1731.7	2096.8	2419.2	2692.7	2795.3	2904.0	3089.6	3221.5	3310.7	3332.7
67.5°	1270.0	1547.3	1916.1	2247.0	2504.7	2614.6	2718.4	2902.8	3035.9	3111.6	3123.8
70°	1105.2	1382.4	1757.3	2095.6	2336.2	2449.7	2551.1	2730.6	2853.9	2929.7	2928.4
72.5°	948.9	1232.2	1614.4	1934.4	2184.7	2293.4	2394.8	2574.3	2691.5	2741.6	2733.0
75°	815.8	1090.5	1486.2	1790.3	2037.0	2146.9	2254.3	2415.5	2514.4	2559.6	2553.5
77.5°	681.4	962.3	1360.4	1658.4	1899.0	2002.8	2104.1	2248.2	2350.8	2386.2	2365.5
80°	561.8	847.5	1229.7	1522.8	1758.5	1845.2	1936.8	2080.9	2161.5	2198.2	2183.5
82.5°	448.2	737.6	1102.7	1376.3	1591.2	1681.6	1769.5	1890.4	1966.1	1989.3	1963.7
85°	337.1	621.6	963.5	1216.3	1409.3	1497.2	1566.8	1681.6	1740.2	1758.5	1740.2
87.5°	234.5	505.6	815.8	1034.4	1202.9	1276.2	1334.8	1434.9	1481.3	1505.7	1493.5
90°	123.3	337.1	578.8	736.4	853.6	898.8	947.7	1016.0	1061.2	1083.2	1078.3
92.5°	119.7	255.2	454.3	597.2	707.1	758.4	815.8	902.5	951.3	985.5	988.0
95°	125.8	211.3	344.4	451.8	566.6	624.0	672.9	740.0	792.6	837.7	848.7
97.5°	123.3	217.4	315.1	405.4	473.8	510.5	563.0	644.8	693.6	723.0	727.8
100°	123.3	229.6	330.9	384.7	454.3	475.0	495.8	539.8	609.4	648.5	668.0
102.5°	122.1	234.5	357.8	388.3	442.1	475.0	490.9	512.9	538.5	574.0	609.4
105°	120.9	238.1	379.8	425.0	434.7	454.3	486.0	517.8	525.1	526.3	527.6
107.5°	119.7	225.9	389.6	498.2	459.2	462.8	472.6	512.9	534.9	530.0	520.2
110°	116.0	195.4	389.6	495.8	501.9	489.7	487.3	504.4	530.0	541.0	530.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	111.1	166.1	383.5	498.2	611.8	547.1	520.2	514.1	523.9	536.1	543.4
115°	103.8	135.6	379.8	498.2	610.6	674.1	585.0	541.0	532.4	533.7	536.1
117.5°	100.1	116.0	388.3	497.0	581.3	665.6	727.8	585.0	555.6	543.4	537.3
120°	96.5	107.5	366.4	490.9	582.5	616.7	708.3	686.3	594.7	565.4	550.8
122.5°	91.6	103.8	329.7	481.2	576.4	615.5	646.0	812.1	660.7	598.4	574.0
125°	87.9	98.9	278.4	481.2	565.4	606.9	641.1	757.1	852.4	654.6	604.5
127.5°	83.0	92.8	221.0	490.9	550.8	593.5	630.1	687.5	841.4	802.3	669.2
130°	76.9	87.9	166.1	454.3	537.3	576.4	614.3	676.5	752.3	891.5	819.4
132.5°	72.1	81.8	111.1	404.2	528.8	560.5	595.9	660.7	712.0	812.1	922.0
135°	65.9	75.7	87.9	344.4	539.8	547.1	577.6	643.6	696.1	736.4	850.0
137.5°	63.5	73.3	84.3	277.2	501.9	560.5	563.0	621.6	677.8	721.7	755.9
140°	61.1	70.8	81.8	188.1	442.1	530.0	576.4	600.8	655.8	701.0	738.8
142.5°	58.6	68.4	78.2	122.1	372.5	471.4	552.0	586.2	631.4	677.8	715.6
145°	58.6	67.2	76.9	90.4	294.3	400.6	487.3	598.4	609.4	649.7	691.2
147.5°	57.4	65.9	75.7	83.0	194.2	310.2	410.3	554.4	606.9	626.5	660.7
150°	57.4	64.7	74.5	81.8	124.6	212.5	321.2	478.7	593.5	614.3	633.8
152.5°	57.4	63.5	74.5	80.6	86.7	129.4	221.0	377.4	511.7	609.4	625.3
155°	57.4	62.3	73.3	79.4	85.5	89.1	124.6	283.3	412.8	522.7	604.5
157.5°	57.4	62.3	72.1	78.2	83.0	86.7	87.9	155.1	304.1	412.8	505.6
160°	57.4	61.1	69.6	76.9	80.6	84.3	86.7	94.0	161.2	293.1	382.2
162.5°	57.4	59.8	67.2	74.5	79.4	80.6	83.0	86.7	91.6	140.4	203.9
165°	57.4	58.6	64.7	72.1	76.9	78.2	79.4	83.0	86.7	89.1	106.2
167.5°	56.2	58.6	62.3	67.2	73.3	75.7	76.9	79.4	81.8	84.3	86.7
170°	56.2	57.4	59.8	63.5	67.2	69.6	72.1	74.5	76.9	78.2	79.4
172.5°	55.0	56.2	57.4	59.8	62.3	63.5	64.7	67.2	70.8	73.3	74.5
175°	55.0	55.0	55.0	56.2	57.4	57.4	58.6	59.8	61.1	63.5	64.7
177.5°	53.7	55.0	53.7	53.7	53.7	53.7	53.7	53.7	55.0	55.0	55.0
180°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1	7967.1
2.5°	8119.8	8132.0	8125.9	8163.7	8175.9	8164.9	8171.0	8183.3	8191.8	8196.7
5°	8476.3	8526.4	8560.6	8615.6	8629.0	8660.7	8676.6	8710.8	8735.2	8734.0
7.5°	8856.1	8923.3	8984.4	9038.1	9074.7	9093.1	9117.5	9163.9	9193.2	9198.1
10°	9139.5	9226.2	9300.7	9369.0	9415.4	9421.6	9482.6	9516.8	9548.6	9531.5
12.5°	9344.6	9436.2	9524.1	9619.4	9647.5	9676.8	9719.5	9770.8	9798.9	9795.2
15°	9469.2	9575.4	9676.8	9768.4	9805.0	9829.4	9886.8	9943.0	9967.4	9969.9
17.5°	9519.3	9632.8	9735.4	9834.3	9867.3	9895.4	9955.2	10007.7	10037.0	10041.9
20°	9489.9	9607.2	9713.4	9812.3	9842.9	9873.4	9933.2	9987.0	10018.7	10021.2
22.5°	9383.7	9499.7	9613.3	9704.9	9734.2	9768.4	9819.7	9873.4	9897.8	9899.0
25°	9200.5	9314.1	9415.4	9499.7	9530.2	9570.5	9620.6	9659.7	9687.8	9697.5
27.5°	8936.7	9045.4	9148.0	9216.4	9254.3	9287.2	9326.3	9384.9	9389.8	9394.7
30°	8598.5	8724.2	8818.3	8874.5	8898.9	8946.5	8973.4	9003.9	9045.4	9040.5
32.5°	8224.8	8342.0	8410.4	8499.5	8519.1	8543.5	8559.4	8597.2	8607.0	8611.9
35°	7804.7	7908.5	7959.8	8033.1	8069.7	8073.4	8092.9	8122.2	8122.2	8117.3
37.5°	7350.4	7459.1	7507.9	7537.2	7550.7	7567.8	7565.3	7581.2	7559.2	7573.9
40°	6905.9	6981.6	6995.0	7024.3	7037.8	7042.7	7032.9	7021.9	6995.0	7010.9
42.5°	6432.1	6485.8	6523.6	6510.2	6518.8	6509.0	6488.2	6455.3	6462.6	6467.5
45°	5965.6	5998.5	5997.3	6031.5	5997.3	5977.8	5957.0	5932.6	5921.6	5903.3
47.5°	5528.4	5543.0	5546.7	5528.4	5499.1	5513.7	5451.4	5434.3	5416.0	5417.2
50°	5105.8	5124.2	5118.0	5080.2	5055.8	5030.1	4993.5	4961.7	4942.2	4923.9
52.5°	4734.6	4728.5	4691.8	4668.6	4636.9	4623.5	4566.1	4551.4	4524.5	4513.6
55°	4401.2	4376.8	4338.9	4303.5	4263.2	4244.9	4209.5	4177.7	4152.1	4159.4
57.5°	4081.2	4053.2	4011.6	3959.1	3932.3	3912.7	3870.0	3852.9	3822.4	3823.6
60°	3796.7	3762.5	3711.2	3662.4	3636.7	3611.1	3579.3	3556.1	3536.6	3530.5
62.5°	3548.8	3509.7	3458.4	3408.4	3380.3	3359.5	3325.3	3299.7	3280.1	3278.9
65°	3316.8	3264.3	3204.4	3161.7	3140.9	3122.6	3097.0	3067.7	3054.2	3059.1
67.5°	3093.3	3044.5	2994.4	2949.2	2924.8	2913.8	2899.1	2878.4	2868.6	2872.3
70°	2891.8	2828.3	2790.4	2752.6	2735.5	2731.8	2709.8	2692.7	2687.9	2681.8
72.5°	2695.2	2643.9	2601.2	2568.2	2563.3	2552.3	2531.5	2526.7	2509.6	2505.9
75°	2512.0	2460.7	2424.1	2393.6	2388.7	2382.6	2367.9	2364.2	2348.4	2352.0
77.5°	2323.9	2282.4	2248.2	2228.7	2212.8	2206.7	2195.7	2187.2	2181.1	2178.6
80°	2127.3	2083.4	2052.8	2038.2	2029.6	2021.1	2015.0	2002.8	1996.7	1993.0
82.5°	1914.8	1880.6	1853.8	1844.0	1837.9	1842.8	1824.5	1823.3	1819.6	1813.5
85°	1709.7	1673.0	1647.4	1642.5	1638.8	1632.7	1630.3	1624.2	1621.8	1621.8
87.5°	1461.8	1430.0	1415.4	1423.9	1410.5	1419.0	1417.8	1410.5	1405.6	1422.7
90°	1061.2	1047.8	1040.5	1047.8	1051.5	1049.0	1047.8	1039.2	1045.3	1045.3
92.5°	983.1	973.3	974.5	970.9	978.2	979.4	983.1	979.4	984.3	983.1
95°	850.0	852.4	859.7	867.1	874.4	874.4	882.9	887.8	889.0	895.1
97.5°	725.4	721.7	738.8	747.4	743.7	749.8	754.7	764.5	766.9	759.6
100°	668.0	659.4	657.0	654.6	654.6	650.9	650.9	654.6	657.0	650.9
102.5°	614.3	619.1	619.1	616.7	616.7	617.9	619.1	621.6	624.0	621.6
105°	549.5	572.7	580.1	585.0	586.2	587.4	591.1	595.9	595.9	594.7
107.5°	512.9	499.5	517.8	537.3	544.7	550.8	561.8	567.9	570.3	569.1
110°	516.6	500.7	484.8	492.1	488.5	479.9	492.1	506.8	516.6	520.2





TEST NUMBER: P236409

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	528.8	511.7	501.9	492.1	487.3	483.6	481.2	483.6	482.4	477.5
115°	537.3	526.3	511.7	501.9	499.5	498.2	498.2	495.8	493.4	490.9
117.5°	533.7	528.8	525.1	517.8	516.6	514.1	509.2	505.6	500.7	498.2
120°	538.5	530.0	523.9	521.5	522.7	522.7	520.2	519.0	514.1	511.7
122.5°	555.6	539.8	531.2	527.6	525.1	523.9	521.5	519.0	514.1	511.7
125°	581.3	561.8	548.3	538.5	536.1	533.7	528.8	523.9	519.0	516.6
127.5°	617.9	592.3	576.4	563.0	558.1	552.0	544.7	534.9	530.0	527.6
130°	680.2	636.2	611.8	593.5	585.0	580.1	570.3	560.5	552.0	548.3
132.5°	865.8	712.0	665.6	635.0	628.9	617.9	603.3	592.3	582.5	578.8
135°	937.9	945.2	755.9	705.9	687.5	669.2	652.1	636.2	625.3	622.8
137.5°	863.4	939.1	984.3	914.7	846.3	774.2	735.2	710.7	693.6	683.9
140°	770.6	841.4	924.4	966.0	985.5	996.5	989.2	948.9	897.6	890.3
142.5°	749.8	774.2	797.4	882.9	911.0	933.0	956.2	970.9	979.4	979.4
145°	724.2	752.3	770.6	786.5	793.8	799.9	851.2	885.4	895.1	895.1
147.5°	697.3	721.7	744.9	762.0	770.6	777.9	784.0	788.9	787.7	786.5
150°	663.1	688.8	712.0	731.5	740.0	744.9	755.9	760.8	759.6	757.1
152.5°	632.6	655.8	677.8	693.6	703.4	710.7	719.3	726.6	727.8	726.6
155°	635.0	630.1	643.6	659.4	661.9	669.2	679.0	686.3	683.9	683.9
157.5°	576.4	622.8	641.1	633.8	632.6	635.0	638.7	644.8	644.8	641.1
160°	455.5	520.2	567.9	611.8	619.1	627.7	636.2	637.5	632.6	626.5
162.5°	312.6	363.9	428.6	476.3	492.1	509.2	532.4	549.5	555.6	548.3
165°	140.4	179.5	263.8	301.6	326.1	339.5	360.3	373.7	390.8	401.8
167.5°	87.9	91.6	107.5	118.5	130.7	142.9	151.4	162.4	172.2	190.5
170°	80.6	81.8	83.0	83.0	83.0	81.8	80.6	78.2	76.9	73.3
172.5°	75.7	75.7	75.7	74.5	75.7	74.5	73.3	70.8	65.9	62.3
175°	65.9	67.2	65.9	67.2	65.9	65.9	64.7	61.1	56.2	53.7
177.5°	55.0	55.0	55.0	53.7	52.5	51.3	50.1	46.4	42.7	39.1
180°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1

(END OF REPORT)