

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: P236394

Luminaire Tested: **SKB4-LD5-24-N-UNV-L835-CD4-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236394  
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-LD5-24-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**

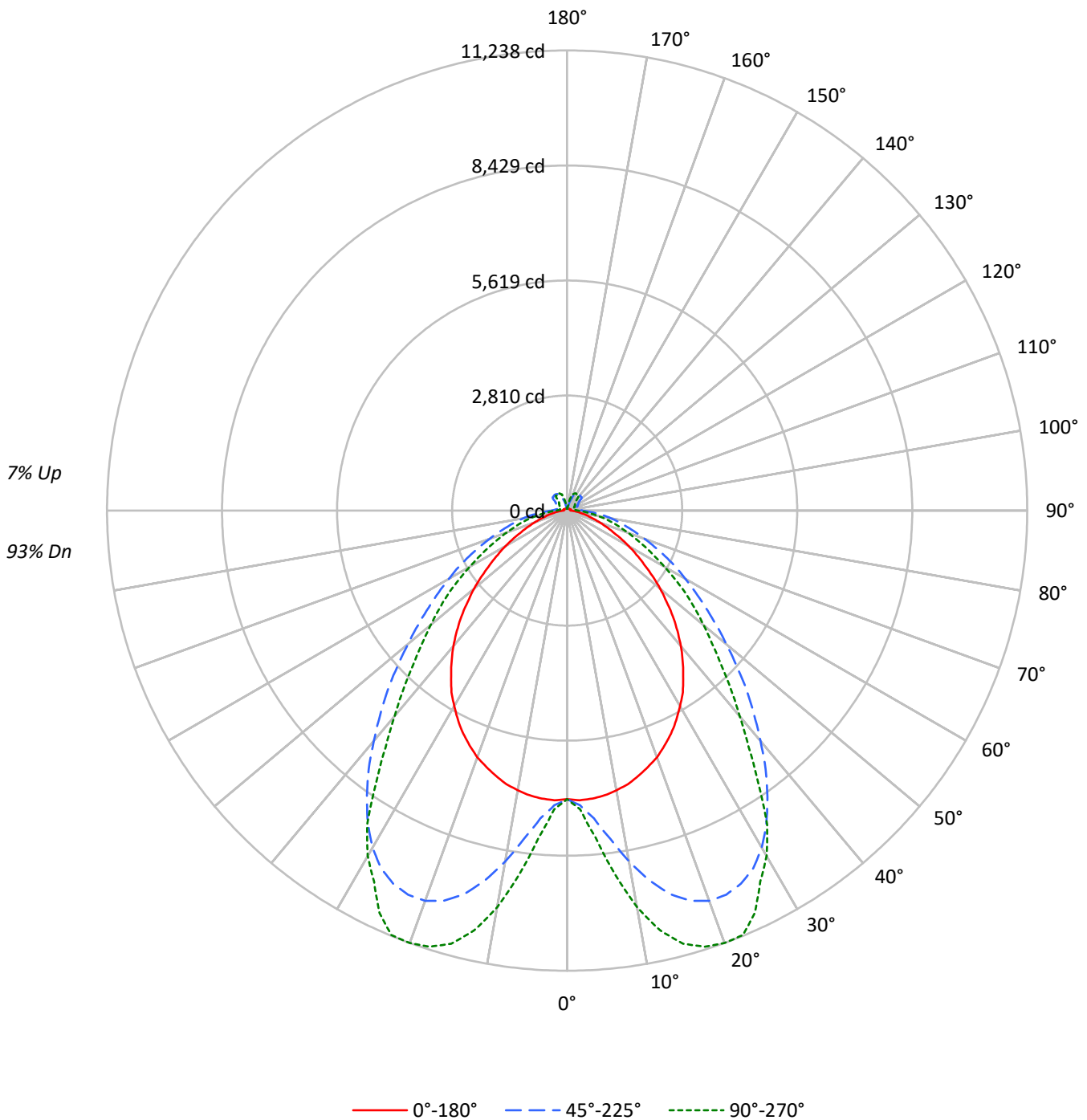
Lumens per Lamp: N/A  
Luminaire Lumens: 26037.0 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.56 / 1.53  
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')  
CIE Type: Direct

Input Watts (W): 206.2  
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: P236394

CATALOG NUMBER: SKB4-LD5-24-N-UNV-L835-CD4-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	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°	10111	10111	10111
5°	10126	10765	11451
10°	10016	12423	14059
15°	9837	13972	15799
20°	9615	14864	16497
25°	9288	15103	16322
30°	8866	14763	15167
35°	8351	13825	13240
40°	7756	12541	11237
45°	7045	11280	9694
50°	6228	9958	8579
55°	5352	8866	7647
60°	4574	7958	6610
65°	3752	7195	5759
70°	3102	6416	5052
75°	2558	5814	4557
80°	2208	5422	3952
85°	2024	4887	3449



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.3	2.9
10°-20°	2613.5	10.0
20°-30°	4264.6	16.4
30°-40°	4770.7	18.3
40°-50°	4221.5	16.2
50°-60°	3269.4	12.6
60°-70°	2257.2	8.7
70°-80°	1403.5	5.4
80°-90°	696.9	2.7
90°-100°	290.0	1.1
100°-110°	242.7	0.9
110°-120°	267.0	1.0
120°-130°	277.1	1.1
130°-140°	271.4	1.0
140°-150°	234.2	0.9
150°-160°	148.2	0.6
160°-170°	52.1	0.2
170°-180°	5.5	0.0
0°-30°	7629.5	29.3
0°-40°	12400.2	47.6
0°-60°	19891.0	76.4
0°-90°	24248.7	93.1
90°-120°	799.7	3.1
90°-150°	1582.5	6.1
90°-180°	1788.0	6.9
0°-180°	26037.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7045	7045	7045	7045	7045	
5°	7061	7220	7548	7840	8025	670
15°	6713	7888	9694	10651	10950	1891
25°	6008	8118	10051	10770	10841	2760
35°	4940	7172	8528	8370	8145	3087
45°	3652	5453	6199	5691	5307	2806
55°	2298	3700	4127	3772	3541	2071
65°	1228	2397	2643	2306	2100	1239
75°	551	1574	1500	1322	1163	599
85°	196	871	688	550	476	191
90°	78	501	377	304	258	51
95°	85	358	280	219	194	71
105°	88	333	215	188	176	94
115°	78	449	280	212	191	79
125°	70	467	342	254	230	62
135°	56	420	472	326	282	44
145°	51	326	483	466	444	32
155°	51	145	417	462	462	24
165°	52	59	169	281	320	15
175°	51	51	52	54	46	5
180°	50	50	50	50	50	



TEST NUMBER: P236394

CATALOG NUMBER: SKB4-LD5-24-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0
2.5°	7082.3	7067.6	7068.6	7089.1	7099.9	7095.0	7110.7	7133.3	7160.7	7193.1	7204.8
5°	7060.7	7053.8	7084.2	7147.0	7198.9	7220.5	7251.9	7322.5	7398.9	7458.7	7548.0
7.5°	7014.6	7021.5	7093.1	7196.0	7301.9	7349.9	7406.8	7535.2	7721.5	7888.2	8088.2
10°	6936.2	6964.6	7086.2	7234.2	7399.9	7497.0	7607.8	7867.6	8171.5	8434.2	8697.9
12.5°	6846.0	6895.0	7047.0	7250.9	7527.4	7683.3	7864.6	8234.2	8598.0	8922.5	9242.1
15°	6712.7	6801.9	6992.1	7266.6	7670.5	7888.2	8107.8	8533.2	8965.6	9373.4	9694.0
17.5°	6564.6	6684.2	6910.7	7289.1	7789.1	8035.2	8278.3	8763.6	9260.7	9650.9	9988.1
20°	6414.6	6536.2	6802.9	7289.1	7851.9	8126.4	8395.0	8937.2	9413.6	9816.6	10141.1
22.5°	6213.7	6382.3	6680.3	7251.9	7861.7	8156.8	8450.9	8978.3	9460.7	9835.2	10152.8
25°	6007.8	6169.5	6541.1	7159.7	7801.9	8118.5	8399.9	8926.4	9385.2	9748.9	10050.9
27.5°	5771.5	5943.1	6360.7	7020.5	7678.4	7982.3	8260.7	8763.6	9220.5	9569.5	9844.0
30°	5510.7	5700.9	6155.8	6815.6	7470.5	7764.6	8039.1	8517.6	8951.9	9259.7	9501.9
32.5°	5258.8	5426.4	5902.9	6568.6	7206.8	7488.2	7744.0	8209.7	8592.1	8866.6	9057.7
35°	4940.1	5118.6	5620.5	6279.3	6888.2	7172.5	7383.3	7815.6	8166.6	8382.3	8528.3
37.5°	4637.2	4798.0	5302.9	5956.8	6522.5	6767.6	6993.1	7386.2	7693.1	7888.2	7961.7
40°	4320.5	4466.6	4962.7	5579.4	6113.7	6341.1	6552.9	6912.7	7182.3	7321.5	7342.1
42.5°	3985.3	4112.7	4606.8	5178.4	5683.3	5903.9	6113.7	6418.6	6649.9	6778.4	6755.8
45°	3651.9	3752.9	4237.2	4774.5	5245.0	5452.9	5621.5	5911.7	6122.5	6193.1	6199.0
47.5°	3290.2	3401.9	3858.8	4378.4	4818.6	4995.0	5145.0	5424.5	5594.1	5639.2	5612.7
50°	2962.7	3061.7	3481.3	3960.7	4379.4	4526.4	4687.2	4946.0	5067.6	5114.7	5073.5
52.5°	2626.4	2731.3	3124.5	3567.6	3937.2	4121.5	4242.1	4475.4	4575.4	4600.9	4585.2
55°	2298.0	2420.6	2791.1	3192.1	3553.9	3700.0	3849.0	4043.1	4129.4	4125.4	4127.4
57.5°	2007.8	2108.8	2467.6	2854.9	3199.0	3323.5	3456.8	3619.6	3700.9	3720.5	3718.6
60°	1737.2	1837.2	2184.3	2528.4	2861.7	2995.1	3100.0	3235.3	3306.8	3321.5	3326.4
62.5°	1473.5	1585.3	1913.7	2252.9	2564.7	2691.1	2783.3	2912.7	2957.8	2967.6	2997.0
65°	1228.4	1358.8	1673.5	2009.8	2289.2	2397.0	2478.4	2587.2	2637.2	2667.6	2643.1
67.5°	1022.5	1162.7	1471.6	1801.0	2055.9	2154.9	2229.4	2313.7	2356.8	2361.7	2306.8
70°	845.1	995.1	1293.1	1601.9	1847.0	1937.2	2004.9	2072.5	2064.7	2035.3	2013.7
72.5°	687.2	845.1	1151.9	1439.2	1665.7	1746.1	1801.0	1841.2	1798.0	1778.4	1746.1
75°	551.0	718.6	1030.4	1301.0	1505.9	1574.5	1601.0	1594.1	1565.7	1536.3	1500.0
77.5°	437.3	611.8	913.7	1174.5	1354.9	1398.0	1410.8	1385.3	1346.1	1318.6	1283.3
80°	346.1	525.5	816.7	1058.8	1186.3	1216.7	1224.5	1189.2	1147.0	1123.5	1085.3
82.5°	263.7	449.0	723.5	925.5	1026.5	1045.1	1040.2	1001.0	966.7	923.5	885.3
85°	196.1	376.5	623.5	785.3	857.8	870.6	858.8	817.6	781.4	738.2	688.2
87.5°	137.3	308.8	510.8	634.3	691.2	690.2	676.5	640.2	597.1	558.8	519.6
90°	78.4	219.6	375.5	457.8	498.0	501.0	490.2	458.8	433.3	410.8	377.4
92.5°	80.4	167.6	284.3	374.5	419.6	424.5	423.5	402.9	375.5	348.0	323.5
95°	85.3	139.2	221.6	294.1	344.1	357.8	363.7	352.0	331.4	306.9	280.4
97.5°	88.2	146.1	217.6	268.6	298.0	306.9	315.7	309.8	294.1	273.5	252.0
100°	91.2	160.8	234.3	277.4	297.1	297.1	292.2	280.4	270.6	254.9	235.3
102.5°	91.2	167.6	257.8	296.1	313.7	311.8	307.8	279.4	252.0	242.2	227.4
105°	88.2	170.6	280.4	328.4	332.3	333.3	325.5	302.0	268.6	240.2	214.7
107.5°	88.2	167.6	289.2	349.0	356.9	351.0	345.1	320.6	288.2	260.8	230.4
110°	86.3	164.7	293.1	376.5	397.1	376.5	363.7	339.2	306.9	275.5	252.0



TEST NUMBER: P236394

CATALOG NUMBER: SKB4-LD5-24-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	82.4	153.9	290.2	384.3	421.6	413.7	390.2	355.9	323.5	292.2	265.7
115°	78.4	138.2	281.4	385.3	438.2	449.0	443.1	378.4	339.2	307.8	280.4
117.5°	76.5	125.5	277.4	385.3	450.0	461.8	467.6	411.8	357.8	321.6	295.1
120°	74.5	109.8	268.6	381.4	451.0	470.6	478.4	472.5	384.3	338.2	306.9
122.5°	72.5	95.1	258.8	374.5	448.0	470.6	485.3	485.3	436.3	359.8	321.6
125°	69.6	85.3	233.3	361.8	442.2	466.7	484.3	494.1	477.4	397.1	342.2
127.5°	66.7	75.5	213.7	351.0	433.3	459.8	478.4	495.1	490.2	462.7	373.5
130°	63.7	66.7	189.2	342.2	420.6	449.0	470.6	493.1	491.2	483.3	451.0
132.5°	59.8	61.8	160.8	322.5	402.9	436.3	459.8	487.2	494.1	480.4	480.4
135°	55.9	56.9	130.4	281.4	387.3	419.6	448.0	479.4	492.2	487.2	472.5
137.5°	53.9	54.9	102.0	249.0	383.3	402.0	430.4	470.6	488.2	490.2	481.4
140°	52.9	52.9	81.4	220.6	360.8	395.1	411.8	456.9	480.4	488.2	485.3
142.5°	52.0	52.0	67.6	189.2	305.9	379.4	402.9	439.2	470.6	484.3	486.3
145°	51.0	52.0	59.8	152.0	266.7	325.5	393.1	418.6	454.9	475.5	483.3
147.5°	51.0	52.0	57.8	112.7	230.4	274.5	332.3	411.8	433.3	461.8	476.5
150°	51.0	51.0	56.9	80.4	190.2	239.2	281.4	387.3	414.7	441.2	460.8
152.5°	51.0	51.0	55.9	66.7	145.1	197.1	240.2	314.7	406.9	417.6	436.3
155°	51.0	51.0	54.9	60.8	98.0	145.1	195.1	262.7	330.4	407.8	416.7
157.5°	52.0	52.0	53.9	58.8	72.5	96.1	138.2	216.7	270.6	333.3	395.1
160°	52.0	52.0	52.9	57.8	62.7	69.6	85.3	152.0	217.6	260.8	305.9
162.5°	52.0	52.0	52.9	55.9	59.8	61.8	65.7	92.2	152.0	210.8	245.1
165°	52.0	52.0	52.0	53.9	57.8	58.8	60.8	66.7	84.3	123.5	168.6
167.5°	52.0	52.0	52.0	52.9	54.9	56.9	57.8	60.8	63.7	68.6	84.3
170°	52.0	52.0	52.0	52.0	52.9	53.9	54.9	56.9	58.8	59.8	61.8
172.5°	51.0	52.0	51.0	51.0	51.0	52.0	52.0	52.9	53.9	54.9	55.9
175°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	52.0
177.5°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	50.0	50.0
180°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0



TEST NUMBER: P236394

CATALOG NUMBER: SKB4-LD5-24-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0	7045.0
2.5°	7224.4	7231.3	7234.2	7266.6	7269.5	7265.6	7270.5	7303.8	7304.8	7304.8
5°	7600.9	7672.5	7756.8	7816.6	7840.1	7848.9	7919.5	7953.8	7962.7	8025.4
7.5°	8278.3	8379.3	8503.8	8612.7	8675.4	8711.7	8777.4	8858.7	8893.0	8962.7
10°	8925.4	9126.4	9290.1	9430.3	9524.4	9560.7	9649.9	9755.8	9832.3	9836.2
12.5°	9511.7	9753.8	9944.0	10118.5	10173.4	10238.1	10344.0	10417.5	10486.2	10503.8
15°	9985.2	10207.7	10406.8	10582.2	10650.9	10697.9	10804.8	10884.2	10924.4	10949.9
17.5°	10282.2	10497.9	10683.2	10840.1	10894.0	10948.9	11039.1	11107.7	11152.8	11168.5
20°	10401.9	10608.7	10779.3	10927.3	10980.3	11027.3	11113.6	11182.2	11225.4	11238.1
22.5°	10399.9	10591.1	10763.6	10902.8	10957.7	11010.7	11096.9	11157.7	11199.9	11218.5
25°	10283.2	10476.4	10631.3	10740.1	10769.5	10800.9	10843.0	10849.9	10874.4	10841.1
27.5°	10049.9	10216.6	10293.0	10320.5	10316.6	10308.7	10280.3	10253.8	10249.9	10215.6
30°	9660.7	9757.7	9792.1	9768.5	9777.3	9718.5	9707.7	9692.1	9719.5	9739.1
32.5°	9159.7	9205.8	9157.7	9129.3	9109.7	9098.9	9105.8	9108.7	9099.9	9088.1
35°	8570.5	8527.4	8472.5	8387.2	8370.5	8337.2	8279.3	8237.2	8202.9	8145.0
37.5°	7935.2	7866.6	7808.7	7704.8	7636.2	7604.8	7483.3	7397.0	7310.7	7283.3
40°	7298.9	7216.6	7145.0	7028.4	6972.5	6909.7	6748.0	6678.4	6604.8	6556.8
42.5°	6704.8	6643.1	6533.3	6407.8	6304.8	6227.4	6099.9	6007.8	5954.8	5920.5
45°	6124.4	6045.0	5906.8	5771.5	5691.1	5612.7	5494.1	5411.7	5335.2	5306.8
47.5°	5576.4	5467.6	5356.8	5215.6	5128.4	5066.6	4987.2	4890.1	4829.4	4800.0
50°	5018.6	4936.2	4817.6	4683.3	4633.3	4568.6	4475.4	4405.8	4358.8	4350.9
52.5°	4527.4	4453.9	4348.0	4225.4	4163.7	4131.3	4042.1	3980.4	3953.9	3935.3
55°	4085.3	4020.5	3913.7	3819.6	3771.5	3736.2	3656.8	3599.0	3578.4	3541.1
57.5°	3669.6	3623.5	3547.0	3448.0	3415.7	3363.7	3273.5	3212.7	3154.9	3128.4
60°	3305.8	3250.9	3161.7	3074.5	3012.7	2957.8	2868.6	2807.8	2748.0	2746.1
62.5°	2958.8	2885.3	2781.3	2677.4	2635.3	2599.0	2504.9	2442.1	2407.8	2404.9
65°	2584.3	2515.7	2429.4	2354.9	2305.9	2272.5	2221.5	2155.9	2114.7	2100.0
67.5°	2251.0	2199.0	2130.4	2065.7	2031.4	2001.0	1925.5	1873.5	1832.3	1821.5
70°	1968.6	1921.5	1866.6	1793.1	1762.7	1728.4	1665.7	1609.8	1570.6	1571.6
72.5°	1707.8	1665.7	1614.7	1550.0	1518.6	1497.0	1439.2	1399.0	1363.7	1352.9
75°	1466.7	1430.4	1399.0	1344.1	1321.6	1294.1	1240.2	1202.9	1175.5	1162.7
77.5°	1258.8	1232.3	1187.2	1134.3	1116.7	1081.4	1033.3	998.0	970.6	969.6
80°	1048.0	1007.8	970.6	922.5	901.0	877.4	830.4	800.0	780.4	779.4
82.5°	844.1	809.8	773.5	728.4	713.7	696.1	667.6	638.2	624.5	610.8
85°	660.8	628.4	598.0	568.6	550.0	540.2	510.8	499.0	477.4	475.5
87.5°	492.2	468.6	453.9	427.4	418.6	411.8	393.1	375.5	368.6	359.8
90°	352.9	333.3	322.5	305.9	303.9	294.1	286.3	273.5	262.7	257.8
92.5°	300.0	279.4	267.6	254.9	249.0	246.1	235.3	226.5	222.5	217.6
95°	258.8	242.2	231.4	222.5	218.6	214.7	207.8	202.9	197.1	194.1
97.5°	231.4	218.6	209.8	202.0	199.0	197.1	191.2	186.3	182.4	179.4
100°	217.6	204.9	197.1	191.2	187.3	185.3	180.4	176.5	173.5	171.6
102.5°	211.8	200.0	193.1	188.2	186.3	183.3	179.4	176.5	173.5	171.6
105°	207.8	200.0	193.1	189.2	188.2	186.3	182.4	180.4	178.4	175.5
107.5°	207.8	189.2	185.3	189.2	189.2	187.3	184.3	182.4	180.4	178.4
110°	226.5	206.9	194.1	183.3	178.4	175.5	172.5	174.5	176.5	173.5





TEST NUMBER: P236394

CATALOG NUMBER: SKB4-LD5-24-N-UNV-L835-CD4-U

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	244.1	225.5	209.8	197.1	193.1	189.2	187.3	185.3	181.4	180.4
115°	256.9	236.3	224.5	215.7	211.8	208.8	202.9	198.0	195.1	191.2
117.5°	270.6	249.0	233.3	222.5	219.6	217.6	214.7	211.8	208.8	206.9
120°	283.3	261.8	245.1	234.3	230.4	226.5	222.5	217.6	213.7	210.8
122.5°	294.1	274.5	257.8	245.1	242.2	238.2	232.4	227.4	222.5	220.6
125°	310.8	287.3	269.6	257.8	253.9	251.0	244.1	239.2	233.3	230.4
127.5°	329.4	303.9	285.3	270.6	265.7	260.8	253.9	248.0	243.1	241.2
130°	363.7	325.5	302.9	286.3	280.4	275.5	267.6	259.8	253.9	252.0
132.5°	444.1	370.6	327.4	305.9	299.0	290.2	281.4	273.5	266.7	264.7
135°	478.4	442.2	417.6	340.2	325.5	316.7	300.0	291.2	282.4	282.4
137.5°	466.7	470.6	460.8	430.4	422.5	412.7	353.9	323.5	311.8	308.8
140°	477.4	463.7	452.9	470.6	466.7	459.8	426.5	415.7	408.8	404.9
142.5°	482.3	475.5	464.7	453.9	451.0	447.1	453.9	460.8	460.8	457.8
145°	484.3	480.4	475.5	468.6	465.7	461.8	456.9	451.0	446.1	444.1
147.5°	481.4	481.4	478.4	475.5	472.5	470.6	465.7	461.8	456.9	454.9
150°	473.5	478.4	478.4	478.4	477.4	476.5	471.6	466.7	463.7	461.8
152.5°	455.9	466.7	472.5	474.5	475.5	477.4	477.4	476.5	473.5	471.6
155°	429.4	444.1	453.9	459.8	461.8	462.7	465.7	464.7	463.7	461.8
157.5°	415.7	415.7	429.4	441.2	443.1	446.1	449.0	449.0	446.1	445.1
160°	361.8	403.9	415.7	411.8	412.7	415.7	420.6	424.5	427.4	424.5
162.5°	273.5	302.9	340.2	376.5	388.2	397.1	411.8	410.8	407.8	406.9
165°	206.9	239.2	255.9	270.6	281.4	289.2	302.9	314.7	318.6	319.6
167.5°	117.6	144.1	171.6	193.1	202.0	213.7	218.6	229.4	232.4	227.4
170°	64.7	70.6	77.5	88.2	90.2	98.0	106.9	123.5	126.5	118.6
172.5°	57.8	58.8	59.8	60.8	60.8	60.8	60.8	60.8	57.8	54.9
175°	52.0	52.9	52.9	53.9	53.9	53.9	52.9	51.0	48.0	46.1
177.5°	50.0	50.0	50.0	50.0	50.0	50.0	49.0	46.1	43.1	41.2
180°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0

(END OF REPORT)