

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: P236407

Luminaire Tested: **SKB4-LD5-24-W-UNV-L840-CD4-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236407
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-LD5-24-W-UNV-L840-CD4-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

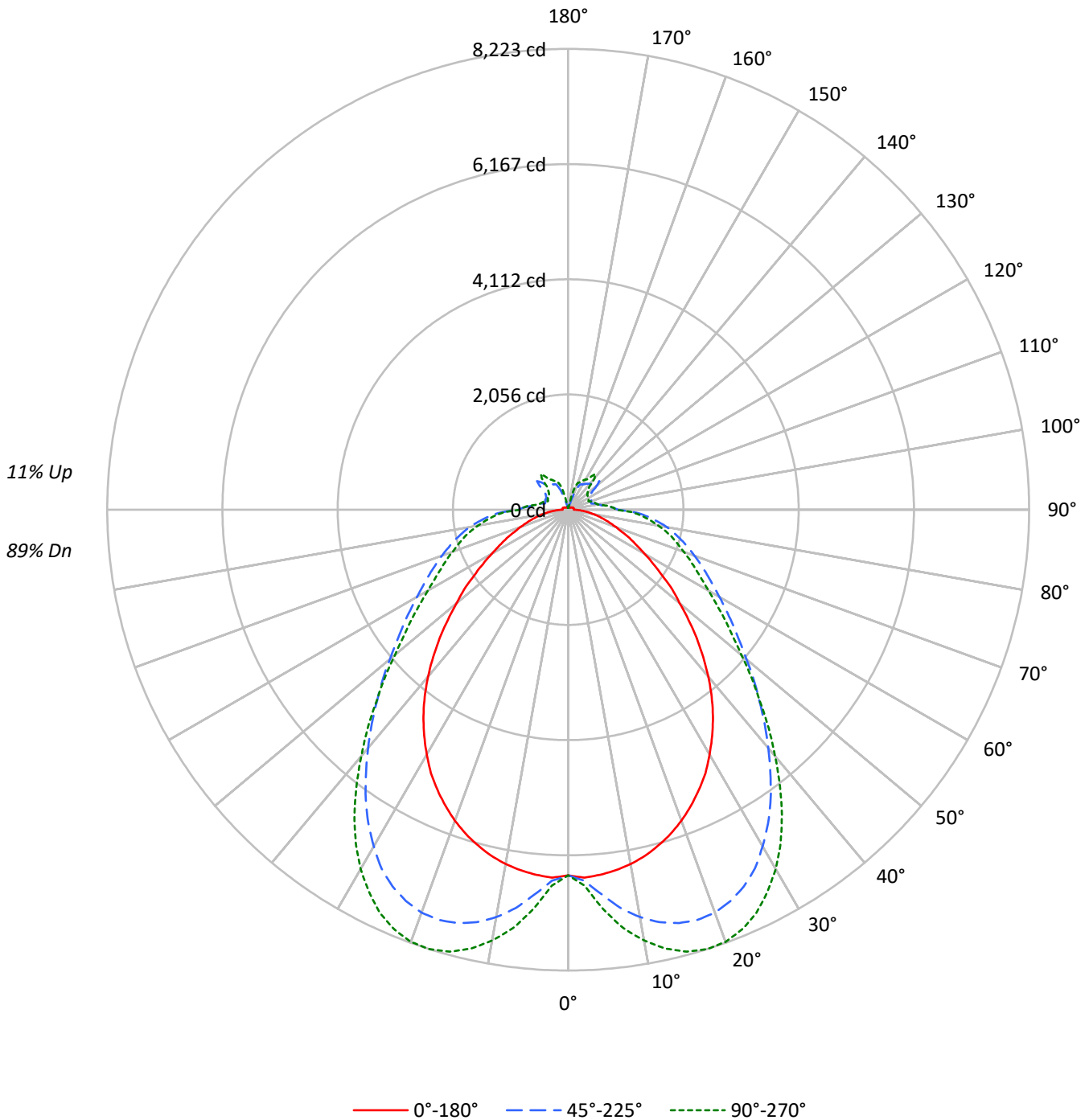
Lumens per Lamp: N/A
Luminaire Lumens: 24567.9 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

Input Watts (W): 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

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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°	9363	9363	9363
5°	9379	9830	10205
10°	9271	10544	11156
15°	9093	11007	11780
20°	8853	11213	12046
25°	8529	11146	11956
30°	8114	10777	11529
35°	7610	10208	10805
40°	6979	9485	9839
45°	6254	8775	8830
50°	5455	8150	7950
55°	4772	7712	7355
60°	4136	7452	6959
65°	3699	7429	6870
70°	3322	7640	7060
75°	3101	8105	7549
80°	2935	8932	8274
85°	2849	10119	9634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.2	2.7
10°-20°	2100.0	8.5
20°-30°	3277.9	13.3
30°-40°	3755.4	15.3
40°-50°	3491.5	14.2
50°-60°	2911.6	11.9
60°-70°	2373.3	9.7
70°-80°	1900.8	7.7
80°-90°	1305.7	5.3
90°-100°	651.6	2.7
100°-110°	440.6	1.8
110°-120°	395.8	1.6
120°-130°	390.5	1.6
130°-140°	382.4	1.6
140°-150°	303.1	1.2
150°-160°	167.0	0.7
160°-170°	48.3	0.2
170°-180°	5.1	0.0
0°-30°	6045.1	24.6
0°-40°	9800.5	39.9
0°-60°	16203.7	66.0
0°-90°	21783.5	88.7
90°-120°	1487.9	6.1
90°-150°	2564.0	10.4
90°-180°	2784.0	11.3
0°-180°	24567.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6524	6524	6524	6524	6524	
5°	6540	6637	6892	7066	7152	620
15°	6205	6922	7637	8029	8164	1747
25°	5517	6591	7417	7804	7941	2536
35°	4502	5582	6297	6608	6647	2805
45°	3242	4219	4822	4911	4834	2496
55°	2049	3061	3590	3491	3406	1847
65°	1211	2289	2729	2572	2505	1203
75°	668	1758	2091	1956	1926	709
85°	276	1226	1425	1342	1328	264
90°	101	736	883	861	856	67
95°	103	511	695	716	733	83
105°	99	372	432	480	487	104
115°	85	552	439	409	402	86
125°	72	497	495	439	423	64
135°	54	448	696	563	510	43
145°	48	328	566	650	733	30
155°	47	73	495	542	560	22
165°	47	64	87	267	329	13
175°	45	47	53	54	44	4
180°	41	41	41	41	41	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1
2.5°	6572.1	6561.1	6546.1	6565.1	6566.1	6562.1	6564.1	6583.1	6595.1	6617.1	6629.1
5°	6540.1	6536.1	6539.1	6580.1	6618.1	6637.1	6655.1	6715.1	6776.1	6838.1	6892.1
7.5°	6489.1	6497.1	6522.1	6605.1	6688.1	6729.1	6775.1	6888.1	6988.1	7076.1	7169.1
10°	6420.1	6434.1	6496.1	6624.1	6758.1	6822.1	6891.1	7030.1	7168.1	7287.1	7382.1
12.5°	6327.1	6352.1	6455.1	6631.1	6807.1	6892.1	6981.1	7142.1	7288.1	7425.1	7540.1
15°	6205.1	6256.1	6391.1	6616.1	6827.1	6922.1	7018.1	7197.1	7359.1	7511.1	7637.1
17.5°	6068.1	6139.1	6310.1	6569.1	6807.1	6905.1	7009.1	7200.1	7376.1	7537.1	7675.1
20°	5906.1	5992.1	6202.1	6492.1	6738.1	6842.1	6953.1	7154.1	7339.1	7507.1	7650.1
22.5°	5721.1	5825.1	6072.1	6378.1	6628.1	6735.1	6850.1	7060.1	7252.1	7420.1	7559.1
25°	5517.1	5635.1	5909.1	6223.1	6473.1	6591.1	6701.1	6914.1	7099.1	7275.1	7417.1
27.5°	5302.1	5418.1	5710.1	6030.1	6276.1	6396.1	6510.1	6719.1	6906.1	7071.1	7216.1
30°	5043.1	5176.1	5479.1	5792.1	6054.1	6168.1	6270.1	6473.1	6662.1	6817.1	6936.1
32.5°	4781.1	4917.1	5230.1	5547.1	5787.1	5886.1	5997.1	6187.1	6358.1	6511.1	6636.1
35°	4502.1	4648.1	4940.1	5238.1	5471.1	5582.1	5693.1	5876.1	6028.1	6173.1	6297.1
37.5°	4204.1	4336.1	4644.1	4943.1	5149.1	5263.1	5358.1	5522.1	5689.1	5825.1	5925.1
40°	3888.1	4021.1	4327.1	4612.1	4824.1	4926.1	5000.1	5175.1	5328.1	5473.1	5553.1
42.5°	3563.1	3723.1	4008.1	4273.1	4468.1	4586.1	4644.1	4829.1	4967.1	5099.1	5188.1
45°	3242.0	3386.0	3674.1	3935.1	4138.1	4219.1	4302.1	4465.1	4620.1	4732.1	4822.1
47.5°	2914.0	3067.0	3352.0	3609.1	3801.1	3905.1	3999.1	4147.1	4289.1	4398.1	4488.1
50°	2595.0	2777.0	3060.0	3310.0	3501.1	3585.1	3680.1	3846.1	3979.1	4085.1	4152.1
52.5°	2342.0	2493.0	2789.0	3025.0	3221.0	3314.0	3394.0	3578.1	3707.1	3793.1	3850.1
55°	2049.0	2230.0	2516.0	2759.0	2969.0	3061.0	3156.0	3310.0	3432.0	3536.1	3590.1
57.5°	1800.0	1986.0	2278.0	2531.0	2741.0	2838.0	2934.0	3086.0	3209.0	3294.0	3342.0
60°	1571.0	1785.0	2072.0	2324.0	2541.0	2645.0	2734.0	2876.0	2993.0	3082.0	3115.0
62.5°	1377.0	1585.0	1885.0	2144.0	2368.0	2458.0	2544.0	2696.0	2816.0	2886.0	2912.0
65°	1211.0	1418.0	1717.0	1981.0	2205.0	2289.0	2378.0	2530.0	2638.0	2711.0	2729.0
67.5°	1040.0	1267.0	1569.0	1840.0	2051.0	2141.0	2226.0	2377.0	2486.0	2548.0	2558.0
70°	905.0	1132.0	1439.0	1716.0	1913.0	2006.0	2089.0	2236.0	2337.0	2399.0	2398.0
72.5°	777.0	1009.0	1322.0	1584.0	1789.0	1878.0	1961.0	2108.0	2204.0	2245.0	2238.0
75°	668.0	893.0	1217.0	1466.0	1668.0	1758.0	1846.0	1978.0	2059.0	2096.0	2091.0
77.5°	558.0	788.0	1114.0	1358.0	1555.0	1640.0	1723.0	1841.0	1925.0	1954.0	1937.0
80°	460.0	694.0	1007.0	1247.0	1440.0	1511.0	1586.0	1704.0	1770.0	1800.0	1788.0
82.5°	367.0	604.0	903.0	1127.0	1303.0	1377.0	1449.0	1548.0	1610.0	1629.0	1608.0
85°	276.0	509.0	789.0	996.0	1154.0	1226.0	1283.0	1377.0	1425.0	1440.0	1425.0
87.5°	192.0	414.0	668.0	847.0	985.0	1045.0	1093.0	1175.0	1213.0	1233.0	1223.0
90°	101.0	276.0	474.0	603.0	699.0	736.0	776.0	832.0	869.0	887.0	883.0
92.5°	98.0	209.0	372.0	489.0	579.0	621.0	668.0	739.0	779.0	807.0	809.0
95°	103.0	173.0	282.0	370.0	464.0	511.0	551.0	606.0	649.0	686.0	695.0
97.5°	101.0	178.0	258.0	332.0	388.0	418.0	461.0	528.0	568.0	592.0	596.0
100°	101.0	188.0	271.0	315.0	372.0	389.0	406.0	442.0	499.0	531.0	547.0
102.5°	100.0	192.0	293.0	318.0	362.0	389.0	402.0	420.0	441.0	470.0	499.0
105°	99.0	195.0	311.0	348.0	356.0	372.0	398.0	424.0	430.0	431.0	432.0
107.5°	98.0	185.0	319.0	408.0	376.0	379.0	387.0	420.0	438.0	434.0	426.0
110°	95.0	160.0	319.0	406.0	411.0	401.0	399.0	413.0	434.0	443.0	434.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	91.0	136.0	314.0	408.0	501.0	448.0	426.0	421.0	429.0	439.0	445.0
115°	85.0	111.0	311.0	408.0	500.0	552.0	479.0	443.0	436.0	437.0	439.0
117.5°	82.0	95.0	318.0	407.0	476.0	545.0	596.0	479.0	455.0	445.0	440.0
120°	79.0	88.0	300.0	402.0	477.0	505.0	580.0	562.0	487.0	463.0	451.0
122.5°	75.0	85.0	270.0	394.0	472.0	504.0	529.0	665.0	541.0	490.0	470.0
125°	72.0	81.0	228.0	394.0	463.0	497.0	525.0	620.0	698.0	536.0	495.0
127.5°	68.0	76.0	181.0	402.0	451.0	486.0	516.0	563.0	689.0	657.0	548.0
130°	63.0	72.0	136.0	372.0	440.0	472.0	503.0	554.0	616.0	730.0	671.0
132.5°	59.0	67.0	91.0	331.0	433.0	459.0	488.0	541.0	583.0	665.0	755.0
135°	54.0	62.0	72.0	282.0	442.0	448.0	473.0	527.0	570.0	603.0	696.0
137.5°	52.0	60.0	69.0	227.0	411.0	459.0	461.0	509.0	555.0	591.0	619.0
140°	50.0	58.0	67.0	154.0	362.0	434.0	472.0	492.0	537.0	574.0	605.0
142.5°	48.0	56.0	64.0	100.0	305.0	386.0	452.0	480.0	517.0	555.0	586.0
145°	48.0	55.0	63.0	74.0	241.0	328.0	399.0	490.0	499.0	532.0	566.0
147.5°	47.0	54.0	62.0	68.0	159.0	254.0	336.0	454.0	497.0	513.0	541.0
150°	47.0	53.0	61.0	67.0	102.0	174.0	263.0	392.0	486.0	503.0	519.0
152.5°	47.0	52.0	61.0	66.0	71.0	106.0	181.0	309.0	419.0	499.0	512.0
155°	47.0	51.0	60.0	65.0	70.0	73.0	102.0	232.0	338.0	428.0	495.0
157.5°	47.0	51.0	59.0	64.0	68.0	71.0	72.0	127.0	249.0	338.0	414.0
160°	47.0	50.0	57.0	63.0	66.0	69.0	71.0	77.0	132.0	240.0	313.0
162.5°	47.0	49.0	55.0	61.0	65.0	66.0	68.0	71.0	75.0	115.0	167.0
165°	47.0	48.0	53.0	59.0	63.0	64.0	65.0	68.0	71.0	73.0	87.0
167.5°	46.0	48.0	51.0	55.0	60.0	62.0	63.0	65.0	67.0	69.0	71.0
170°	46.0	47.0	49.0	52.0	55.0	57.0	59.0	61.0	63.0	64.0	65.0
172.5°	45.0	46.0	47.0	49.0	51.0	52.0	53.0	55.0	58.0	60.0	61.0
175°	45.0	45.0	45.0	46.0	47.0	47.0	48.0	49.0	50.0	52.0	53.0
177.5°	44.0	45.0	44.0	44.0	44.0	44.0	44.0	44.0	45.0	45.0	45.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1	6524.1
2.5°	6649.1	6659.1	6654.1	6685.1	6695.1	6686.1	6691.1	6701.1	6708.1	6712.1
5°	6941.1	6982.1	7010.1	7055.1	7066.1	7092.1	7105.1	7133.1	7153.1	7152.1
7.5°	7252.1	7307.1	7357.1	7401.1	7431.1	7446.1	7466.1	7504.1	7528.1	7532.1
10°	7484.1	7555.1	7616.1	7672.1	7710.1	7715.1	7765.1	7793.1	7819.1	7805.1
12.5°	7652.1	7727.1	7799.1	7877.1	7900.1	7924.1	7959.1	8001.1	8024.1	8021.1
15°	7754.1	7841.1	7924.1	7999.1	8029.1	8049.1	8096.1	8142.1	8162.1	8164.1
17.5°	7795.1	7888.1	7972.1	8053.1	8080.1	8103.1	8152.1	8195.1	8219.1	8223.1
20°	7771.1	7867.1	7954.1	8035.1	8060.1	8085.1	8134.1	8178.1	8204.1	8206.1
22.5°	7684.1	7779.1	7872.1	7947.1	7971.1	7999.1	8041.1	8085.1	8105.1	8106.1
25°	7534.1	7627.1	7710.1	7779.1	7804.1	7837.1	7878.1	7910.1	7933.1	7941.1
27.5°	7318.1	7407.1	7491.1	7547.1	7578.1	7605.1	7637.1	7685.1	7689.1	7693.1
30°	7041.1	7144.1	7221.1	7267.1	7287.1	7326.1	7348.1	7373.1	7407.1	7403.1
32.5°	6735.1	6831.1	6887.1	6960.1	6976.1	6996.1	7009.1	7040.1	7048.1	7052.1
35°	6391.1	6476.1	6518.1	6578.1	6608.1	6611.1	6627.1	6651.1	6651.1	6647.1
37.5°	6019.1	6108.1	6148.1	6172.1	6183.1	6197.1	6195.1	6208.1	6190.1	6202.1
40°	5655.1	5717.1	5728.1	5752.1	5763.1	5767.1	5759.1	5750.1	5728.1	5741.1
42.5°	5267.1	5311.1	5342.1	5331.1	5338.1	5330.1	5313.1	5286.1	5292.1	5296.1
45°	4885.1	4912.1	4911.1	4939.1	4911.1	4895.1	4878.1	4858.1	4849.1	4834.1
47.5°	4527.1	4539.1	4542.1	4527.1	4503.1	4515.1	4464.1	4450.1	4435.1	4436.1
50°	4181.1	4196.1	4191.1	4160.1	4140.1	4119.1	4089.1	4063.1	4047.1	4032.1
52.5°	3877.1	3872.1	3842.1	3823.1	3797.1	3786.1	3739.1	3727.1	3705.1	3696.1
55°	3604.1	3584.1	3553.1	3524.1	3491.1	3476.0	3447.0	3421.0	3400.0	3406.0
57.5°	3342.0	3319.0	3285.0	3242.0	3220.0	3204.0	3169.0	3155.0	3130.0	3131.0
60°	3109.0	3081.0	3039.0	2999.0	2978.0	2957.0	2931.0	2912.0	2896.0	2891.0
62.5°	2906.0	2874.0	2832.0	2791.0	2768.0	2751.0	2723.0	2702.0	2686.0	2685.0
65°	2716.0	2673.0	2624.0	2589.0	2572.0	2557.0	2536.0	2512.0	2501.0	2505.0
67.5°	2533.0	2493.0	2452.0	2415.0	2395.0	2386.0	2374.0	2357.0	2349.0	2352.0
70°	2368.0	2316.0	2285.0	2254.0	2240.0	2237.0	2219.0	2205.0	2201.0	2196.0
72.5°	2207.0	2165.0	2130.0	2103.0	2099.0	2090.0	2073.0	2069.0	2055.0	2052.0
75°	2057.0	2015.0	1985.0	1960.0	1956.0	1951.0	1939.0	1936.0	1923.0	1926.0
77.5°	1903.0	1869.0	1841.0	1825.0	1812.0	1807.0	1798.0	1791.0	1786.0	1784.0
80°	1742.0	1706.0	1681.0	1669.0	1662.0	1655.0	1650.0	1640.0	1635.0	1632.0
82.5°	1568.0	1540.0	1518.0	1510.0	1505.0	1509.0	1494.0	1493.0	1490.0	1485.0
85°	1400.0	1370.0	1349.0	1345.0	1342.0	1337.0	1335.0	1330.0	1328.0	1328.0
87.5°	1197.0	1171.0	1159.0	1166.0	1155.0	1162.0	1161.0	1155.0	1151.0	1165.0
90°	869.0	858.0	852.0	858.0	861.0	859.0	858.0	851.0	856.0	856.0
92.5°	805.0	797.0	798.0	795.0	801.0	802.0	805.0	802.0	806.0	805.0
95°	696.0	698.0	704.0	710.0	716.0	716.0	723.0	727.0	728.0	733.0
97.5°	594.0	591.0	605.0	612.0	609.0	614.0	618.0	626.0	628.0	622.0
100°	547.0	540.0	538.0	536.0	536.0	533.0	533.0	536.0	538.0	533.0
102.5°	503.0	507.0	507.0	505.0	505.0	506.0	507.0	509.0	511.0	509.0
105°	450.0	469.0	475.0	479.0	480.0	481.0	484.0	488.0	488.0	487.0
107.5°	420.0	409.0	424.0	440.0	446.0	451.0	460.0	465.0	467.0	466.0
110°	423.0	410.0	397.0	403.0	400.0	393.0	403.0	415.0	423.0	426.0



TEST NUMBER: P236407

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L840-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	433.0	419.0	411.0	403.0	399.0	396.0	394.0	396.0	395.0	391.0
115°	440.0	431.0	419.0	411.0	409.0	408.0	408.0	406.0	404.0	402.0
117.5°	437.0	433.0	430.0	424.0	423.0	421.0	417.0	414.0	410.0	408.0
120°	441.0	434.0	429.0	427.0	428.0	428.0	426.0	425.0	421.0	419.0
122.5°	455.0	442.0	435.0	432.0	430.0	429.0	427.0	425.0	421.0	419.0
125°	476.0	460.0	449.0	441.0	439.0	437.0	433.0	429.0	425.0	423.0
127.5°	506.0	485.0	472.0	461.0	457.0	452.0	446.0	438.0	434.0	432.0
130°	557.0	521.0	501.0	486.0	479.0	475.0	467.0	459.0	452.0	449.0
132.5°	709.0	583.0	545.0	520.0	515.0	506.0	494.0	485.0	477.0	474.0
135°	768.0	774.0	619.0	578.0	563.0	548.0	534.0	521.0	512.0	510.0
137.5°	707.0	769.0	806.0	749.0	693.0	634.0	602.0	582.0	568.0	560.0
140°	631.0	689.0	757.0	791.0	807.0	816.0	810.0	777.0	735.0	729.0
142.5°	614.0	634.0	653.0	723.0	746.0	764.0	783.0	795.0	802.0	802.0
145°	593.0	616.0	631.0	644.0	650.0	655.0	697.0	725.0	733.0	733.0
147.5°	571.0	591.0	610.0	624.0	631.0	637.0	642.0	646.0	645.0	644.0
150°	543.0	564.0	583.0	599.0	606.0	610.0	619.0	623.0	622.0	620.0
152.5°	518.0	537.0	555.0	568.0	576.0	582.0	589.0	595.0	596.0	595.0
155°	520.0	516.0	527.0	540.0	542.0	548.0	556.0	562.0	560.0	560.0
157.5°	472.0	510.0	525.0	519.0	518.0	520.0	523.0	528.0	528.0	525.0
160°	373.0	426.0	465.0	501.0	507.0	514.0	521.0	522.0	518.0	513.0
162.5°	256.0	298.0	351.0	390.0	403.0	417.0	436.0	450.0	455.0	449.0
165°	115.0	147.0	216.0	247.0	267.0	278.0	295.0	306.0	320.0	329.0
167.5°	72.0	75.0	88.0	97.0	107.0	117.0	124.0	133.0	141.0	156.0
170°	66.0	67.0	68.0	68.0	68.0	67.0	66.0	64.0	63.0	60.0
172.5°	62.0	62.0	62.0	61.0	62.0	61.0	60.0	58.0	54.0	51.0
175°	54.0	55.0	54.0	55.0	54.0	54.0	53.0	50.0	46.0	44.0
177.5°	45.0	45.0	45.0	44.0	43.0	42.0	41.0	38.0	35.0	32.0
180°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0

(END OF REPORT)