

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: P236406

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236406
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-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

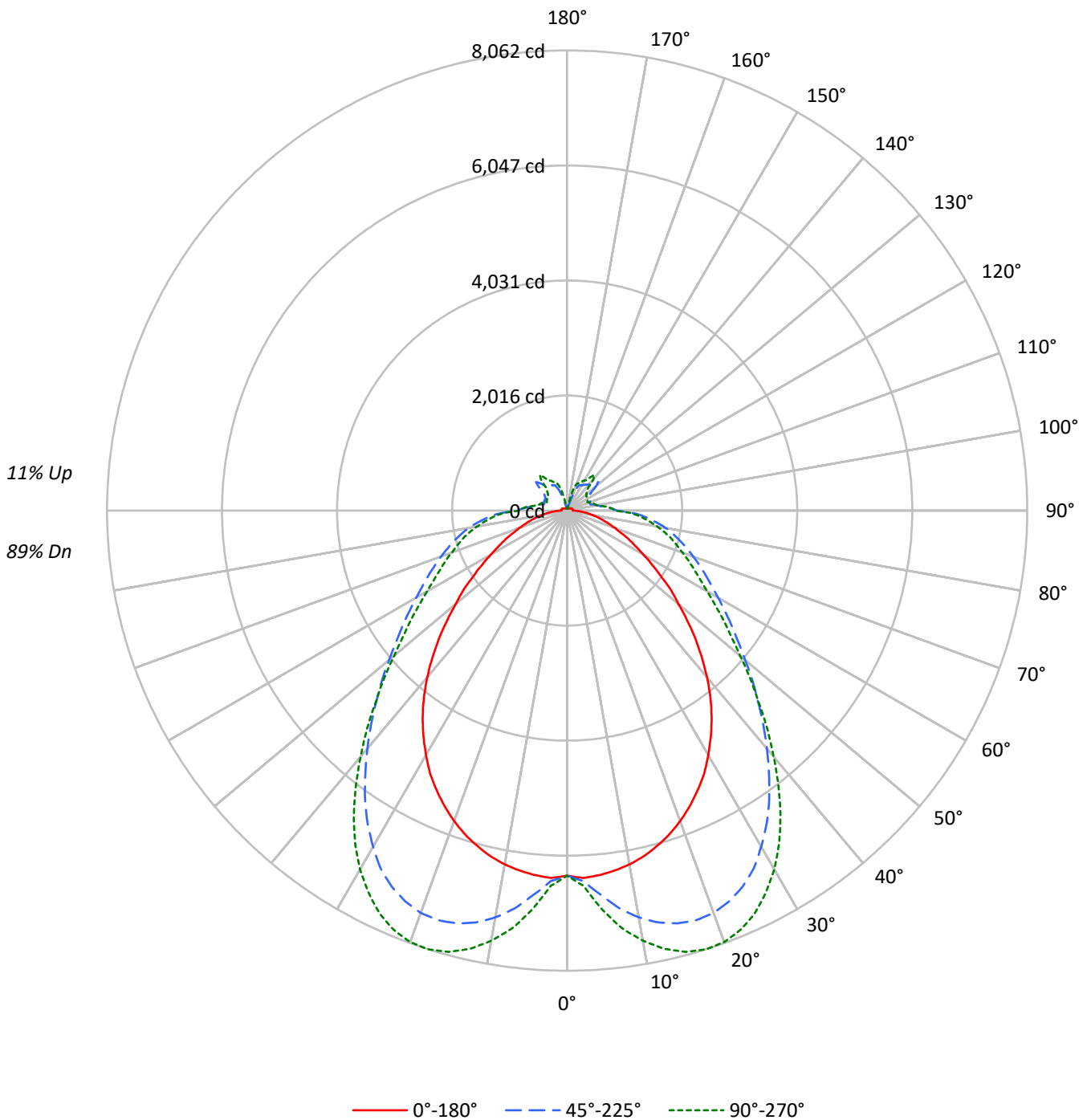
Lumens per Lamp: N/A
Luminaire Lumens: 24086.0 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

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°	9180	9180	9180
5°	9195	9637	10004
10°	9089	10337	10937
15°	8914	10791	11549
20°	8679	10993	11810
25°	8362	10927	11721
30°	7954	10565	11303
35°	7461	10008	10593
40°	6842	9299	9646
45°	6132	8603	8657
50°	5348	7990	7794
55°	4678	7561	7211
60°	4055	7306	6823
65°	3627	7283	6735
70°	3257	7490	6921
75°	3041	7946	7401
80°	2878	8757	8112
85°	2793	9921	9445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.2	2.7
10°-20°	2058.8	8.5
20°-30°	3213.6	13.3
30°-40°	3681.7	15.3
40°-50°	3423.0	14.2
50°-60°	2854.5	11.9
60°-70°	2326.8	9.7
70°-80°	1863.5	7.7
80°-90°	1280.1	5.3
90°-100°	638.8	2.7
100°-110°	431.9	1.8
110°-120°	388.0	1.6
120°-130°	382.9	1.6
130°-140°	374.9	1.6
140°-150°	297.1	1.2
150°-160°	163.7	0.7
160°-170°	47.4	0.2
170°-180°	5.0	0.0
0°-30°	5926.5	24.6
0°-40°	9608.2	39.9
0°-60°	15885.7	66.0
0°-90°	21356.2	88.7
90°-120°	1458.8	6.1
90°-150°	2513.7	10.4
90°-180°	2730.0	11.3
0°-180°	24086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6396	6396	6396	6396	6396	
5°	6412	6507	6757	6928	7012	608
15°	6083	6786	7487	7872	8004	1713
25°	5409	6462	7272	7651	7785	2486
35°	4414	5473	6174	6478	6517	2750
45°	3178	4136	4728	4815	4739	2447
55°	2009	3001	3520	3423	3339	1811
65°	1187	2244	2676	2522	2456	1180
75°	655	1724	2050	1918	1888	695
85°	271	1202	1397	1316	1302	258
90°	99	722	866	844	839	66
95°	101	501	681	702	719	81
105°	97	365	424	471	478	102
115°	83	541	430	401	394	84
125°	71	487	485	430	415	63
135°	53	439	682	552	500	42
145°	47	322	555	637	719	30
155°	46	72	485	531	549	21
165°	46	63	85	262	322	13
175°	44	46	52	53	43	4
180°	40	40	40	40	40	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1
2.5°	6443.2	6432.4	6417.7	6436.3	6437.3	6433.4	6435.3	6453.9	6465.7	6487.3	6499.0
5°	6411.8	6407.9	6410.8	6451.0	6488.3	6506.9	6524.5	6583.4	6643.2	6703.9	6756.9
7.5°	6361.8	6369.6	6394.1	6475.5	6556.9	6597.1	6642.2	6753.0	6851.0	6937.3	7028.5
10°	6294.1	6307.9	6368.6	6494.1	6625.5	6688.3	6755.9	6892.2	7027.5	7144.1	7237.3
12.5°	6203.0	6227.5	6328.4	6501.0	6673.5	6756.9	6844.1	7002.0	7145.1	7279.4	7392.2
15°	6083.4	6133.4	6265.7	6486.3	6693.2	6786.3	6880.4	7055.9	7214.7	7363.7	7487.3
17.5°	5949.0	6018.6	6186.3	6440.2	6673.5	6769.6	6871.6	7058.8	7231.4	7389.2	7524.5
20°	5790.2	5874.5	6080.4	6364.7	6605.9	6707.9	6816.7	7013.7	7195.1	7359.8	7500.0
22.5°	5608.8	5710.8	5953.0	6253.0	6498.1	6603.0	6715.7	6921.6	7109.8	7274.5	7410.8
25°	5408.8	5524.5	5793.2	6101.0	6346.1	6461.8	6569.6	6778.5	6959.8	7132.4	7271.6
27.5°	5198.1	5311.8	5598.1	5911.8	6153.0	6270.6	6382.4	6587.3	6770.6	6932.4	7074.5
30°	4944.1	5074.5	5371.6	5678.4	5935.3	6047.1	6147.1	6346.1	6531.4	6683.4	6800.0
32.5°	4687.3	4820.6	5127.5	5438.3	5673.5	5770.6	5879.4	6065.7	6233.4	6383.4	6505.9
35°	4413.7	4556.9	4843.2	5135.3	5363.7	5472.6	5581.4	5760.8	5909.8	6052.0	6173.5
37.5°	4121.6	4251.0	4553.0	4846.1	5048.1	5159.8	5253.0	5413.7	5577.5	5710.8	5808.8
40°	3811.8	3942.2	4242.2	4521.6	4729.4	4829.4	4902.0	5073.5	5223.5	5365.7	5444.1
42.5°	3493.1	3650.0	3929.4	4189.2	4380.4	4496.1	4553.0	4734.3	4869.6	4999.0	5086.3
45°	3178.4	3319.6	3602.0	3857.9	4056.9	4136.3	4217.7	4377.5	4529.4	4639.2	4727.5
47.5°	2856.9	3006.9	3286.3	3538.2	3726.5	3828.4	3920.6	4065.7	4204.9	4311.8	4400.0
50°	2544.1	2722.6	3000.0	3245.1	3432.4	3514.7	3607.9	3770.6	3901.0	4004.9	4070.6
52.5°	2296.1	2444.1	2734.3	2965.7	3157.9	3249.0	3327.5	3507.9	3634.3	3718.6	3774.5
55°	2008.8	2186.3	2466.7	2704.9	2910.8	3001.0	3094.1	3245.1	3364.7	3466.7	3519.6
57.5°	1764.7	1947.1	2233.3	2481.4	2687.3	2782.4	2876.5	3025.5	3146.1	3229.4	3276.5
60°	1540.2	1750.0	2031.4	2278.4	2491.2	2593.1	2680.4	2819.6	2934.3	3021.6	3053.9
62.5°	1350.0	1553.9	1848.0	2102.0	2321.6	2409.8	2494.1	2643.1	2760.8	2829.4	2854.9
65°	1187.3	1390.2	1683.3	1942.2	2161.8	2244.1	2331.4	2480.4	2586.3	2657.9	2675.5
67.5°	1019.6	1242.2	1538.2	1803.9	2010.8	2099.0	2182.4	2330.4	2437.3	2498.0	2507.9
70°	887.3	1109.8	1410.8	1682.4	1875.5	1966.7	2048.0	2192.2	2291.2	2352.0	2351.0
72.5°	761.8	989.2	1296.1	1552.9	1753.9	1841.2	1922.6	2066.7	2160.8	2201.0	2194.1
75°	654.9	875.5	1193.1	1437.3	1635.3	1723.5	1809.8	1939.2	2018.6	2054.9	2050.0
77.5°	547.1	772.6	1092.2	1331.4	1524.5	1607.8	1689.2	1804.9	1887.3	1915.7	1899.0
80°	451.0	680.4	987.3	1222.6	1411.8	1481.4	1554.9	1670.6	1735.3	1764.7	1752.9
82.5°	359.8	592.2	885.3	1104.9	1277.5	1350.0	1420.6	1517.7	1578.4	1597.1	1576.5
85°	270.6	499.0	773.5	976.5	1131.4	1202.0	1257.8	1350.0	1397.1	1411.8	1397.1
87.5°	188.2	405.9	654.9	830.4	965.7	1024.5	1071.6	1152.0	1189.2	1208.8	1199.0
90°	99.0	270.6	464.7	591.2	685.3	721.6	760.8	815.7	852.0	869.6	865.7
92.5°	96.1	204.9	364.7	479.4	567.6	608.8	654.9	724.5	763.7	791.2	793.1
95°	101.0	169.6	276.5	362.7	454.9	501.0	540.2	594.1	636.3	672.6	681.4
97.5°	99.0	174.5	252.9	325.5	380.4	409.8	452.0	517.6	556.9	580.4	584.3
100°	99.0	184.3	265.7	308.8	364.7	381.4	398.0	433.3	489.2	520.6	536.3
102.5°	98.0	188.2	287.3	311.8	354.9	381.4	394.1	411.8	432.4	460.8	489.2
105°	97.1	191.2	304.9	341.2	349.0	364.7	390.2	415.7	421.6	422.6	423.5
107.5°	96.1	181.4	312.7	400.0	368.6	371.6	379.4	411.8	429.4	425.5	417.6
110°	93.1	156.9	312.7	398.0	402.9	393.1	391.2	404.9	425.5	434.3	425.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	89.2	133.3	307.8	400.0	491.2	439.2	417.6	412.7	420.6	430.4	436.3
115°	83.3	108.8	304.9	400.0	490.2	541.2	469.6	434.3	427.5	428.4	430.4
117.5°	80.4	93.1	311.8	399.0	466.7	534.3	584.3	469.6	446.1	436.3	431.4
120°	77.5	86.3	294.1	394.1	467.6	495.1	568.6	551.0	477.5	453.9	442.2
122.5°	73.5	83.3	264.7	386.3	462.7	494.1	518.6	652.0	530.4	480.4	460.8
125°	70.6	79.4	223.5	386.3	453.9	487.3	514.7	607.8	684.3	525.5	485.3
127.5°	66.7	74.5	177.5	394.1	442.2	476.5	505.9	552.0	675.5	644.1	537.3
130°	61.8	70.6	133.3	364.7	431.4	462.7	493.1	543.1	603.9	715.7	657.8
132.5°	57.8	65.7	89.2	324.5	424.5	450.0	478.4	530.4	571.6	652.0	740.2
135°	52.9	60.8	70.6	276.5	433.3	439.2	463.7	516.7	558.8	591.2	682.4
137.5°	51.0	58.8	67.6	222.5	402.9	450.0	452.0	499.0	544.1	579.4	606.9
140°	49.0	56.9	65.7	151.0	354.9	425.5	462.7	482.4	526.5	562.7	593.1
142.5°	47.1	54.9	62.7	98.0	299.0	378.4	443.1	470.6	506.9	544.1	574.5
145°	47.1	53.9	61.8	72.5	236.3	321.6	391.2	480.4	489.2	521.6	554.9
147.5°	46.1	52.9	60.8	66.7	155.9	249.0	329.4	445.1	487.3	502.9	530.4
150°	46.1	52.0	59.8	65.7	100.0	170.6	257.8	384.3	476.5	493.1	508.8
152.5°	46.1	51.0	59.8	64.7	69.6	103.9	177.5	302.9	410.8	489.2	502.0
155°	46.1	50.0	58.8	63.7	68.6	71.6	100.0	227.5	331.4	419.6	485.3
157.5°	46.1	50.0	57.8	62.7	66.7	69.6	70.6	124.5	244.1	331.4	405.9
160°	46.1	49.0	55.9	61.8	64.7	67.6	69.6	75.5	129.4	235.3	306.9
162.5°	46.1	48.0	53.9	59.8	63.7	64.7	66.7	69.6	73.5	112.7	163.7
165°	46.1	47.1	52.0	57.8	61.8	62.7	63.7	66.7	69.6	71.6	85.3
167.5°	45.1	47.1	50.0	53.9	58.8	60.8	61.8	63.7	65.7	67.6	69.6
170°	45.1	46.1	48.0	51.0	53.9	55.9	57.8	59.8	61.8	62.7	63.7
172.5°	44.1	45.1	46.1	48.0	50.0	51.0	52.0	53.9	56.9	58.8	59.8
175°	44.1	44.1	44.1	45.1	46.1	46.1	47.1	48.0	49.0	51.0	52.0
177.5°	43.1	44.1	43.1	43.1	43.1	43.1	43.1	43.1	44.1	44.1	44.1
180°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1	6396.1
2.5°	6518.6	6528.5	6523.5	6553.9	6563.7	6554.9	6559.8	6569.6	6576.5	6580.4
5°	6804.9	6845.1	6872.6	6916.7	6927.5	6953.0	6965.7	6993.2	7012.8	7011.8
7.5°	7109.8	7163.7	7212.8	7255.9	7285.3	7300.0	7319.6	7356.9	7380.4	7384.3
10°	7337.3	7406.9	7466.7	7521.6	7558.8	7563.7	7612.8	7640.2	7665.7	7652.0
12.5°	7502.0	7575.5	7646.1	7722.6	7745.1	7768.7	7803.0	7844.1	7866.7	7863.7
15°	7602.0	7687.3	7768.7	7842.2	7871.6	7891.2	7937.3	7982.4	8002.0	8003.9
17.5°	7642.2	7733.4	7815.7	7895.1	7921.6	7944.1	7992.2	8034.3	8057.9	8061.8
20°	7618.6	7712.8	7798.1	7877.5	7902.0	7926.5	7974.5	8017.7	8043.2	8045.1
22.5°	7533.4	7626.5	7717.7	7791.2	7814.7	7842.2	7883.4	7926.5	7946.1	7947.1
25°	7386.3	7477.5	7558.8	7626.5	7651.0	7683.4	7723.6	7754.9	7777.5	7785.3
27.5°	7174.5	7261.8	7344.1	7399.0	7429.4	7455.9	7487.3	7534.3	7538.3	7542.2
30°	6903.0	7003.9	7079.4	7124.5	7144.1	7182.4	7203.9	7228.5	7261.8	7257.9
32.5°	6603.0	6697.1	6752.0	6823.5	6839.2	6858.8	6871.6	6902.0	6909.8	6913.7
35°	6265.7	6349.0	6390.2	6449.0	6478.5	6481.4	6497.1	6520.6	6520.6	6516.7
37.5°	5901.0	5988.3	6027.5	6051.0	6061.8	6075.5	6073.5	6086.3	6068.6	6080.4
40°	5544.1	5604.9	5615.7	5639.2	5650.0	5653.9	5646.1	5637.3	5615.7	5628.4
42.5°	5163.7	5206.9	5237.3	5226.5	5233.3	5225.5	5208.8	5182.4	5188.3	5192.2
45°	4789.2	4815.7	4814.7	4842.2	4814.7	4799.0	4782.4	4762.8	4753.9	4739.2
47.5°	4438.2	4450.0	4453.0	4438.2	4414.7	4426.5	4376.5	4362.8	4348.1	4349.0
50°	4099.0	4113.7	4108.8	4078.4	4058.8	4038.2	4008.8	3983.3	3967.7	3953.0
52.5°	3801.0	3796.1	3766.7	3748.1	3722.6	3711.8	3665.7	3653.9	3632.4	3623.5
55°	3533.3	3513.7	3483.3	3454.9	3422.6	3407.9	3379.4	3353.9	3333.3	3339.2
57.5°	3276.5	3253.9	3220.6	3178.4	3156.9	3141.2	3106.9	3093.1	3068.6	3069.6
60°	3048.0	3020.6	2979.4	2940.2	2919.6	2899.0	2873.5	2854.9	2839.2	2834.3
62.5°	2849.0	2817.7	2776.5	2736.3	2713.7	2697.1	2669.6	2649.0	2633.3	2632.4
65°	2662.8	2620.6	2572.6	2538.2	2521.6	2506.9	2486.3	2462.8	2452.0	2455.9
67.5°	2483.3	2444.1	2403.9	2367.7	2348.0	2339.2	2327.5	2310.8	2302.9	2305.9
70°	2321.6	2270.6	2240.2	2209.8	2196.1	2193.1	2175.5	2161.8	2157.8	2152.9
72.5°	2163.7	2122.6	2088.2	2061.8	2057.8	2049.0	2032.4	2028.4	2014.7	2011.8
75°	2016.7	1975.5	1946.1	1921.6	1917.7	1912.8	1901.0	1898.0	1885.3	1888.2
77.5°	1865.7	1832.4	1804.9	1789.2	1776.5	1771.6	1762.8	1755.9	1751.0	1749.0
80°	1707.8	1672.6	1648.0	1636.3	1629.4	1622.6	1617.7	1607.8	1602.9	1600.0
82.5°	1537.3	1509.8	1488.2	1480.4	1475.5	1479.4	1464.7	1463.7	1460.8	1455.9
85°	1372.6	1343.1	1322.6	1318.6	1315.7	1310.8	1308.8	1303.9	1302.0	1302.0
87.5°	1173.5	1148.0	1136.3	1143.1	1132.4	1139.2	1138.2	1132.4	1128.4	1142.2
90°	852.0	841.2	835.3	841.2	844.1	842.2	841.2	834.3	839.2	839.2
92.5°	789.2	781.4	782.4	779.4	785.3	786.3	789.2	786.3	790.2	789.2
95°	682.4	684.3	690.2	696.1	702.0	702.0	708.8	712.7	713.7	718.6
97.5°	582.4	579.4	593.1	600.0	597.1	602.0	605.9	613.7	615.7	609.8
100°	536.3	529.4	527.5	525.5	525.5	522.6	522.6	525.5	527.5	522.6
102.5°	493.1	497.1	497.1	495.1	495.1	496.1	497.1	499.0	501.0	499.0
105°	441.2	459.8	465.7	469.6	470.6	471.6	474.5	478.4	478.4	477.5
107.5°	411.8	401.0	415.7	431.4	437.3	442.2	451.0	455.9	457.8	456.9
110°	414.7	402.0	389.2	395.1	392.2	385.3	395.1	406.9	414.7	417.6



TEST NUMBER: P236406

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

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	424.5	410.8	402.9	395.1	391.2	388.2	386.3	388.2	387.3	383.3
115°	431.4	422.6	410.8	402.9	401.0	400.0	400.0	398.0	396.1	394.1
117.5°	428.4	424.5	421.6	415.7	414.7	412.7	408.8	405.9	402.0	400.0
120°	432.4	425.5	420.6	418.6	419.6	419.6	417.6	416.7	412.7	410.8
122.5°	446.1	433.3	426.5	423.5	421.6	420.6	418.6	416.7	412.7	410.8
125°	466.7	451.0	440.2	432.4	430.4	428.4	424.5	420.6	416.7	414.7
127.5°	496.1	475.5	462.7	452.0	448.0	443.1	437.3	429.4	425.5	423.5
130°	546.1	510.8	491.2	476.5	469.6	465.7	457.8	450.0	443.1	440.2
132.5°	695.1	571.6	534.3	509.8	504.9	496.1	484.3	475.5	467.6	464.7
135°	752.9	758.8	606.9	566.7	552.0	537.3	523.5	510.8	502.0	500.0
137.5°	693.1	753.9	790.2	734.3	679.4	621.6	590.2	570.6	556.9	549.0
140°	618.6	675.5	742.2	775.5	791.2	800.0	794.1	761.8	720.6	714.7
142.5°	602.0	621.6	640.2	708.8	731.4	749.0	767.6	779.4	786.3	786.3
145°	581.4	603.9	618.6	631.4	637.3	642.2	683.3	710.8	718.6	718.6
147.5°	559.8	579.4	598.0	611.8	618.6	624.5	629.4	633.3	632.4	631.4
150°	532.4	552.9	571.6	587.3	594.1	598.0	606.9	610.8	609.8	607.8
152.5°	507.8	526.5	544.1	556.9	564.7	570.6	577.5	583.3	584.3	583.3
155°	509.8	505.9	516.7	529.4	531.4	537.3	545.1	551.0	549.0	549.0
157.5°	462.7	500.0	514.7	508.8	507.8	509.8	512.7	517.6	517.6	514.7
160°	365.7	417.6	455.9	491.2	497.1	503.9	510.8	511.8	507.8	502.9
162.5°	251.0	292.2	344.1	382.4	395.1	408.8	427.5	441.2	446.1	440.2
165°	112.7	144.1	211.8	242.2	261.8	272.5	289.2	300.0	313.7	322.5
167.5°	70.6	73.5	86.3	95.1	104.9	114.7	121.6	130.4	138.2	152.9
170°	64.7	65.7	66.7	66.7	66.7	65.7	64.7	62.7	61.8	58.8
172.5°	60.8	60.8	60.8	59.8	60.8	59.8	58.8	56.9	52.9	50.0
175°	52.9	53.9	52.9	53.9	52.9	52.9	52.0	49.0	45.1	43.1
177.5°	44.1	44.1	44.1	43.1	42.2	41.2	40.2	37.3	34.3	31.4
180°	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2

(END OF REPORT)