

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: P236408

Luminaire Tested: **SKB4-LD5-24-W-UNV-L850-CD4-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236408
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-L850-CD4-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

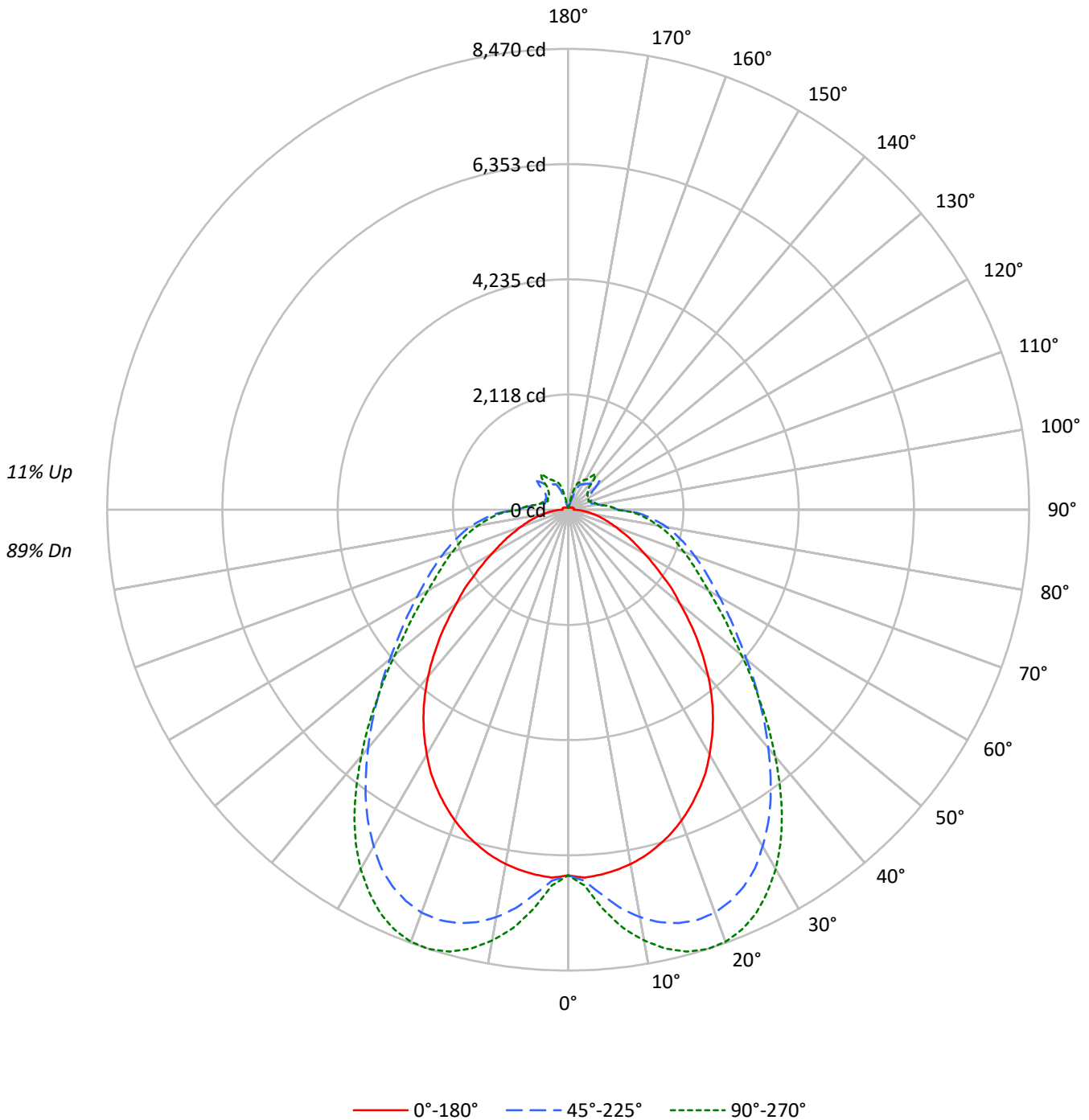
Lumens per Lamp: N/A
Luminaire Lumens: 25305.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.49 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Semi-Direct

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

TEST NUMBER: P236408

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L850-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	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°	9644	9644	9644
5°	9661	10125	10511
10°	9549	10860	11491
15°	9365	11337	12133
20°	9118	11549	12407
25°	8785	11480	12314
30°	8357	11100	11875
35°	7839	10514	11129
40°	7189	9770	10134
45°	6442	9038	9095
50°	5619	8394	8188
55°	4915	7943	7576
60°	4261	7675	7168
65°	3810	7652	7076
70°	3422	7870	7272
75°	3194	8348	7776
80°	3023	9200	8523
85°	2935	10423	9923



TEST NUMBER: P236408

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.3	2.7
10°-20°	2163.0	8.5
20°-30°	3376.2	13.3
30°-40°	3868.0	15.3
40°-50°	3596.3	14.2
50°-60°	2999.0	11.9
60°-70°	2444.6	9.7
70°-80°	1957.9	7.7
80°-90°	1344.9	5.3
90°-100°	671.1	2.7
100°-110°	453.8	1.8
110°-120°	407.7	1.6
120°-130°	402.2	1.6
130°-140°	393.9	1.6
140°-150°	312.2	1.2
150°-160°	172.0	0.7
160°-170°	49.8	0.2
170°-180°	5.3	0.0
0°-30°	6226.5	24.6
0°-40°	10094.5	39.9
0°-60°	16689.7	66.0
0°-90°	22437.0	88.7
90°-120°	1532.6	6.1
90°-150°	2640.9	10.4
90°-180°	2868.0	11.3
0°-180°	25305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6720	6720	6720	6720	6720	
5°	6736	6836	7099	7278	7367	639
15°	6391	7130	7866	8270	8409	1800
25°	5683	6789	7640	8038	8179	2612
35°	4637	5750	6486	6806	6846	2890
45°	3339	4346	4967	5058	4979	2571
55°	2110	3153	3698	3596	3508	1902
65°	1247	2358	2811	2649	2580	1239
75°	688	1811	2154	2015	1984	730
85°	284	1263	1468	1382	1368	272
90°	104	758	910	887	882	69
95°	106	526	716	738	755	85
105°	102	383	445	494	502	108
115°	88	569	452	421	414	88
125°	74	512	510	452	436	66
135°	56	461	717	580	525	44
145°	49	338	583	670	755	31
155°	48	75	510	558	577	22
165°	48	66	90	275	339	14
175°	46	48	55	56	45	4
180°	42	42	42	42	42	



TEST NUMBER: P236408

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8
2.5°	6769.2	6757.9	6742.5	6762.0	6763.1	6758.9	6761.0	6780.6	6792.9	6815.6	6828.0
5°	6736.3	6732.2	6735.3	6777.5	6816.6	6836.2	6854.7	6916.5	6979.4	7043.2	7098.9
7.5°	6683.8	6692.0	6717.7	6803.2	6888.7	6931.0	6978.3	7094.7	7197.7	7288.4	7384.2
10°	6612.7	6627.1	6691.0	6822.8	6960.8	7026.7	7097.8	7241.0	7383.1	7505.7	7603.6
12.5°	6516.9	6542.6	6648.7	6830.0	7011.3	7098.9	7190.5	7356.4	7506.7	7647.8	7766.3
15°	6391.2	6443.8	6582.8	6814.6	7031.9	7129.8	7228.6	7413.0	7579.9	7736.4	7866.2
17.5°	6250.1	6323.3	6499.4	6766.2	7011.3	7112.2	7219.4	7416.1	7597.4	7763.2	7905.4
20°	6083.3	6171.8	6388.1	6686.8	6940.2	7047.3	7161.7	7368.7	7559.3	7732.3	7879.6
22.5°	5892.7	5999.8	6254.2	6569.4	6826.9	6937.1	7055.6	7271.9	7469.7	7642.7	7785.9
25°	5682.6	5804.1	6086.3	6409.8	6667.3	6788.8	6902.1	7121.5	7312.1	7493.3	7639.6
27.5°	5461.1	5580.6	5881.4	6211.0	6464.4	6588.0	6705.4	6920.7	7113.3	7283.2	7432.6
30°	5194.4	5331.3	5643.4	5965.8	6235.7	6353.1	6458.2	6667.3	6861.9	7021.6	7144.2
32.5°	4924.5	5064.6	5387.0	5713.5	5960.7	6062.7	6177.0	6372.7	6548.8	6706.4	6835.2
35°	4637.1	4787.5	5088.3	5395.2	5635.2	5749.5	5863.9	6052.4	6208.9	6358.3	6486.0
37.5°	4330.2	4466.1	4783.4	5091.4	5303.5	5421.0	5518.8	5687.7	5859.7	5999.8	6102.8
40°	4004.7	4141.7	4456.9	4750.4	4968.8	5073.8	5150.1	5330.3	5487.9	5637.3	5719.7
42.5°	3669.9	3834.7	4128.3	4401.2	4602.1	4723.6	4783.4	4973.9	5116.1	5252.0	5343.7
45°	3339.3	3487.6	3784.3	4053.1	4262.2	4345.6	4431.1	4599.0	4758.7	4874.0	4966.7
47.5°	3001.5	3159.1	3452.6	3717.3	3915.1	4022.2	4119.0	4271.5	4417.7	4530.0	4622.7
50°	2672.9	2860.3	3151.8	3409.3	3606.1	3692.6	3790.4	3961.4	4098.4	4207.6	4276.6
52.5°	2412.3	2567.8	2872.7	3115.8	3317.7	3413.5	3495.9	3685.4	3818.3	3906.8	3965.6
55°	2110.5	2296.9	2591.5	2841.8	3058.1	3152.9	3250.7	3409.3	3535.0	3642.1	3697.7
57.5°	1854.0	2045.6	2346.4	2607.0	2823.3	2923.2	3022.1	3178.6	3305.3	3392.9	3442.3
60°	1618.2	1838.6	2134.2	2393.8	2617.3	2724.4	2816.1	2962.3	3082.8	3174.5	3208.5
62.5°	1418.3	1632.6	1941.6	2208.3	2439.1	2531.8	2620.4	2776.9	2900.5	2972.6	2999.4
65°	1247.3	1460.6	1768.5	2040.5	2271.2	2357.7	2449.4	2605.9	2717.2	2792.4	2810.9
67.5°	1071.2	1305.0	1616.1	1895.2	2112.6	2205.3	2292.8	2448.3	2560.6	2624.5	2634.8
70°	932.2	1166.0	1482.2	1767.5	1970.4	2066.2	2151.7	2303.1	2407.1	2471.0	2470.0
72.5°	800.3	1039.3	1361.7	1631.5	1842.7	1934.4	2019.9	2171.3	2270.1	2312.4	2305.2
75°	688.0	919.8	1253.5	1510.0	1718.1	1810.8	1901.4	2037.4	2120.8	2158.9	2153.8
77.5°	574.7	811.7	1147.4	1398.8	1601.7	1689.2	1774.7	1896.3	1982.8	2012.6	1995.1
80°	473.8	714.8	1037.2	1284.4	1483.2	1556.3	1633.6	1755.1	1823.1	1854.0	1841.7
82.5°	378.0	622.1	930.1	1160.8	1342.1	1418.3	1492.5	1594.5	1658.3	1677.9	1656.3
85°	284.3	524.3	812.7	1025.9	1188.6	1262.8	1321.5	1418.3	1467.8	1483.2	1467.8
87.5°	197.8	426.4	688.0	872.4	1014.6	1076.4	1125.8	1210.3	1249.4	1270.0	1259.7
90°	104.0	284.3	488.2	621.1	720.0	758.1	799.3	857.0	895.1	913.6	909.5
92.5°	100.9	215.3	383.2	503.7	596.4	639.6	688.0	761.2	802.4	831.2	833.3
95°	106.1	178.2	290.5	381.1	477.9	526.3	567.5	624.2	668.5	706.6	715.9
97.5°	104.0	183.3	265.7	342.0	399.6	430.5	474.8	543.8	585.0	609.8	613.9
100°	104.0	193.6	279.1	324.5	383.2	400.7	418.2	455.3	514.0	546.9	563.4
102.5°	103.0	197.8	301.8	327.5	372.9	400.7	414.1	432.6	454.2	484.1	514.0
105°	102.0	200.9	320.3	358.4	366.7	383.2	409.9	436.7	442.9	443.9	445.0
107.5°	100.9	190.6	328.6	420.2	387.3	390.4	398.6	432.6	451.1	447.0	438.8
110°	97.9	164.8	328.6	418.2	423.3	413.0	411.0	425.4	447.0	456.3	447.0



TEST NUMBER: P236408

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	93.7	140.1	323.4	420.2	516.0	461.4	438.8	433.6	441.9	452.2	458.4
115°	87.6	114.3	320.3	420.2	515.0	568.6	493.4	456.3	449.1	450.1	452.2
117.5°	84.5	97.9	327.5	419.2	490.3	561.4	613.9	493.4	468.7	458.4	453.2
120°	81.4	90.6	309.0	414.1	491.3	520.2	597.4	578.9	501.6	476.9	464.5
122.5°	77.3	87.6	278.1	405.8	486.2	519.1	544.9	685.0	557.2	504.7	484.1
125°	74.2	83.4	234.8	405.8	476.9	511.9	540.8	638.6	718.9	552.1	509.9
127.5°	70.0	78.3	186.4	414.1	464.5	500.6	531.5	579.9	709.7	676.7	564.4
130°	64.9	74.2	140.1	383.2	453.2	486.2	518.1	570.6	634.5	751.9	691.1
132.5°	60.8	69.0	93.7	340.9	446.0	472.8	502.6	557.2	600.5	685.0	777.7
135°	55.6	63.9	74.2	290.5	455.3	461.4	487.2	542.8	587.1	621.1	716.9
137.5°	53.6	61.8	71.1	233.8	423.3	472.8	474.8	524.3	571.7	608.7	637.6
140°	51.5	59.7	69.0	158.6	372.9	447.0	486.2	506.8	553.1	591.2	623.2
142.5°	49.4	57.7	65.9	103.0	314.2	397.6	465.6	494.4	532.5	571.7	603.6
145°	49.4	56.7	64.9	76.2	248.2	337.8	411.0	504.7	514.0	548.0	583.0
147.5°	48.4	55.6	63.9	70.0	163.8	261.6	346.1	467.6	511.9	528.4	557.2
150°	48.4	54.6	62.8	69.0	105.1	179.2	270.9	403.8	500.6	518.1	534.6
152.5°	48.4	53.6	62.8	68.0	73.1	109.2	186.4	318.3	431.6	514.0	527.4
155°	48.4	52.5	61.8	67.0	72.1	75.2	105.1	239.0	348.1	440.8	509.9
157.5°	48.4	52.5	60.8	65.9	70.0	73.1	74.2	130.8	256.5	348.1	426.4
160°	48.4	51.5	58.7	64.9	68.0	71.1	73.1	79.3	136.0	247.2	322.4
162.5°	48.4	50.5	56.7	62.8	67.0	68.0	70.0	73.1	77.3	118.5	172.0
165°	48.4	49.4	54.6	60.8	64.9	65.9	67.0	70.0	73.1	75.2	89.6
167.5°	47.4	49.4	52.5	56.7	61.8	63.9	64.9	67.0	69.0	71.1	73.1
170°	47.4	48.4	50.5	53.6	56.7	58.7	60.8	62.8	64.9	65.9	67.0
172.5°	46.4	47.4	48.4	50.5	52.5	53.6	54.6	56.7	59.7	61.8	62.8
175°	46.4	46.4	46.4	47.4	48.4	48.4	49.4	50.5	51.5	53.6	54.6
177.5°	45.3	46.4	45.3	45.3	45.3	45.3	45.3	45.3	46.4	46.4	46.4
180°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2



TEST NUMBER: P236408

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8	6719.8
2.5°	6848.6	6858.9	6853.7	6885.6	6895.9	6886.7	6891.8	6902.1	6909.3	6913.4
5°	7149.3	7191.6	7220.4	7266.7	7278.1	7304.9	7318.2	7347.1	7367.7	7366.7
7.5°	7469.7	7526.3	7577.8	7623.1	7654.0	7669.5	7690.1	7729.2	7753.9	7758.1
10°	7708.6	7781.7	7844.6	7902.3	7941.4	7946.6	7998.1	8026.9	8053.7	8039.3
12.5°	7881.7	7958.9	8033.1	8113.4	8137.1	8161.8	8197.9	8241.1	8264.8	8261.7
15°	7986.7	8076.3	8161.8	8239.1	8270.0	8290.6	8339.0	8386.4	8407.0	8409.0
17.5°	8029.0	8124.7	8211.3	8294.7	8322.5	8346.2	8396.7	8441.0	8465.7	8469.8
20°	8004.2	8103.1	8192.7	8276.2	8301.9	8327.7	8378.1	8423.4	8450.2	8452.3
22.5°	7914.6	8012.5	8108.3	8185.5	8210.2	8239.1	8282.3	8327.7	8348.3	8349.3
25°	7760.1	7855.9	7941.4	8012.5	8038.2	8072.2	8114.4	8147.4	8171.1	8179.3
27.5°	7537.6	7629.3	7715.8	7773.5	7805.4	7833.2	7866.2	7915.7	7919.8	7923.9
30°	7252.3	7358.4	7437.7	7485.1	7505.7	7545.9	7568.5	7594.3	7629.3	7625.2
32.5°	6937.1	7036.0	7093.7	7168.9	7185.4	7206.0	7219.4	7251.3	7259.5	7263.7
35°	6582.8	6670.4	6713.6	6775.4	6806.3	6809.4	6825.9	6850.6	6850.6	6846.5
37.5°	6199.6	6291.3	6332.5	6357.2	6368.6	6383.0	6380.9	6394.3	6375.8	6388.1
40°	5824.7	5888.6	5899.9	5924.6	5936.0	5940.1	5931.8	5922.6	5899.9	5913.3
42.5°	5425.1	5470.4	5502.3	5491.0	5498.2	5490.0	5472.5	5444.6	5450.8	5454.9
45°	5031.6	5059.4	5058.4	5087.2	5058.4	5041.9	5024.4	5003.8	4994.5	4979.1
47.5°	4662.9	4675.2	4678.3	4662.9	4638.1	4650.5	4598.0	4583.6	4568.1	4569.1
50°	4306.5	4321.9	4316.8	4284.9	4264.3	4242.6	4211.7	4184.9	4168.5	4153.0
52.5°	3993.4	3988.2	3957.3	3937.7	3911.0	3899.6	3851.2	3838.9	3816.2	3806.9
55°	3712.2	3691.6	3659.6	3629.8	3595.8	3580.3	3550.5	3523.7	3502.0	3508.2
57.5°	3442.3	3418.6	3383.6	3339.3	3316.6	3300.2	3264.1	3249.7	3223.9	3225.0
60°	3202.3	3173.5	3130.2	3089.0	3067.4	3045.7	3019.0	2999.4	2982.9	2977.8
62.5°	2993.2	2960.3	2917.0	2874.8	2851.1	2833.6	2804.7	2783.1	2766.6	2765.6
65°	2797.5	2753.2	2702.8	2666.7	2649.2	2633.7	2612.1	2587.4	2576.1	2580.2
67.5°	2609.0	2567.8	2525.6	2487.5	2466.9	2457.6	2445.3	2427.7	2419.5	2422.6
70°	2439.1	2385.5	2353.6	2321.6	2307.2	2304.1	2285.6	2271.2	2267.1	2261.9
72.5°	2273.2	2230.0	2193.9	2166.1	2162.0	2152.7	2135.2	2131.1	2116.7	2113.6
75°	2118.7	2075.5	2044.6	2018.8	2014.7	2009.6	1997.2	1994.1	1980.7	1983.8
77.5°	1960.1	1925.1	1896.3	1879.8	1866.4	1861.2	1852.0	1844.8	1839.6	1837.5
80°	1794.3	1757.2	1731.5	1719.1	1711.9	1704.7	1699.5	1689.2	1684.1	1681.0
82.5°	1615.1	1586.2	1563.6	1555.3	1550.2	1554.3	1538.8	1537.8	1534.7	1529.6
85°	1442.0	1411.1	1389.5	1385.4	1382.3	1377.1	1375.1	1369.9	1367.9	1367.9
87.5°	1232.9	1206.1	1193.8	1201.0	1189.7	1196.9	1195.8	1189.7	1185.5	1200.0
90°	895.1	883.8	877.6	883.8	886.8	884.8	883.8	876.5	881.7	881.7
92.5°	829.2	820.9	822.0	818.9	825.0	826.1	829.2	826.1	830.2	829.2
95°	716.9	718.9	725.1	731.3	737.5	737.5	744.7	748.8	749.8	755.0
97.5°	611.8	608.7	623.2	630.4	627.3	632.4	636.5	644.8	646.8	640.7
100°	563.4	556.2	554.1	552.1	552.1	549.0	549.0	552.1	554.1	549.0
102.5°	518.1	522.2	522.2	520.2	520.2	521.2	522.2	524.3	526.3	524.3
105°	463.5	483.1	489.3	493.4	494.4	495.4	498.5	502.6	502.6	501.6
107.5°	432.6	421.3	436.7	453.2	459.4	464.5	473.8	479.0	481.0	480.0
110°	435.7	422.3	408.9	415.1	412.0	404.8	415.1	427.5	435.7	438.8



TEST NUMBER: P236408

CATALOG NUMBER: SKB4-LD5-24-W-UNV-L850-CD4-U

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	446.0	431.6	423.3	415.1	411.0	407.9	405.8	407.9	406.9	402.7
115°	453.2	443.9	431.6	423.3	421.3	420.2	420.2	418.2	416.1	414.1
117.5°	450.1	446.0	442.9	436.7	435.7	433.6	429.5	426.4	422.3	420.2
120°	454.2	447.0	441.9	439.8	440.8	440.8	438.8	437.8	433.6	431.6
122.5°	468.7	455.3	448.1	445.0	442.9	441.9	439.8	437.8	433.6	431.6
125°	490.3	473.8	462.5	454.2	452.2	450.1	446.0	441.9	437.8	435.7
127.5°	521.2	499.6	486.2	474.8	470.7	465.6	459.4	451.1	447.0	445.0
130°	573.7	536.6	516.0	500.6	493.4	489.3	481.0	472.8	465.6	462.5
132.5°	730.3	600.5	561.4	535.6	530.5	521.2	508.8	499.6	491.3	488.2
135°	791.1	797.2	637.6	595.3	579.9	564.4	550.0	536.6	527.4	525.3
137.5°	728.2	792.1	830.2	771.5	713.8	653.0	620.1	599.5	585.0	576.8
140°	649.9	709.7	779.7	814.7	831.2	840.5	834.3	800.3	757.1	750.9
142.5°	632.4	653.0	672.6	744.7	768.4	786.9	806.5	818.9	826.1	826.1
145°	610.8	634.5	649.9	663.3	669.5	674.7	717.9	746.8	755.0	755.0
147.5°	588.1	608.7	628.3	642.7	649.9	656.1	661.3	665.4	664.4	663.3
150°	559.3	580.9	600.5	617.0	624.2	628.3	637.6	641.7	640.7	638.6
152.5°	533.5	553.1	571.7	585.0	593.3	599.5	606.7	612.9	613.9	612.9
155°	535.6	531.5	542.8	556.2	558.3	564.4	572.7	578.9	576.8	576.8
157.5°	486.2	525.3	540.8	534.6	533.5	535.6	538.7	543.8	543.8	540.8
160°	384.2	438.8	479.0	516.0	522.2	529.4	536.6	537.7	533.5	528.4
162.5°	263.7	306.9	361.5	401.7	415.1	429.5	449.1	463.5	468.7	462.5
165°	118.5	151.4	222.5	254.4	275.0	286.3	303.9	315.2	329.6	338.9
167.5°	74.2	77.3	90.6	99.9	110.2	120.5	127.7	137.0	145.2	160.7
170°	68.0	69.0	70.0	70.0	70.0	69.0	68.0	65.9	64.9	61.8
172.5°	63.9	63.9	63.9	62.8	63.9	62.8	61.8	59.7	55.6	52.5
175°	55.6	56.7	55.6	56.7	55.6	55.6	54.6	51.5	47.4	45.3
177.5°	46.4	46.4	46.4	45.3	44.3	43.3	42.2	39.1	36.1	33.0
180°	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2	42.2

(END OF REPORT)