

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: P236531

Luminaire Tested: **SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24075)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES HORIZONTAL
Light Source: (952) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

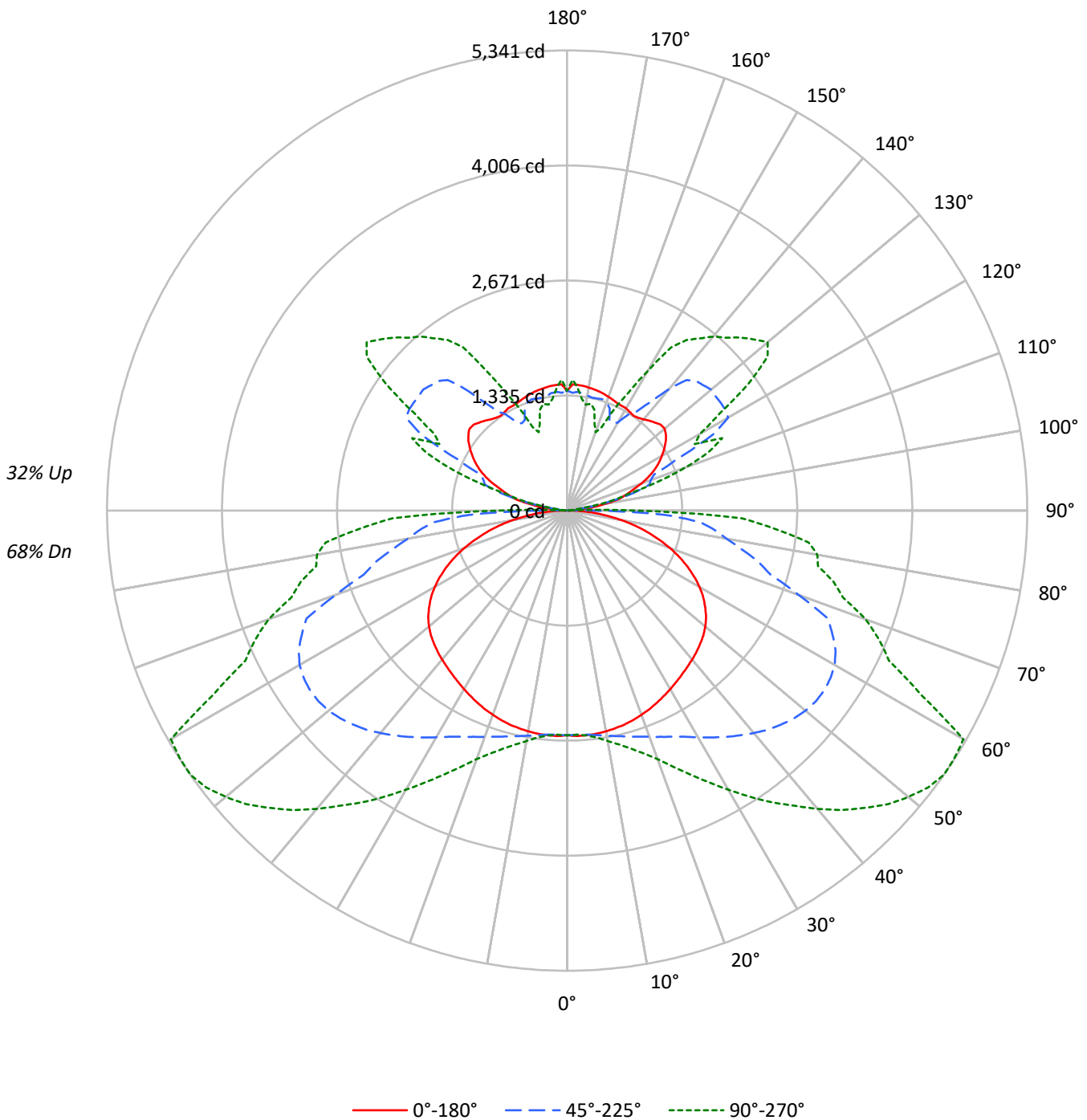
Lumens per Lamp: N/A
Luminaire Lumens: 25315.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 2.46 / 2.11
Luminous Opening: Rectangular (W 1.88' x L: 4' x H: 0')
CIE Type: Semi-Direct

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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CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal

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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	68
1	99	93	87	83	93	87	83	78	77	74	70	68	65	62	59	57	55	51
2	88	78	71	64	82	74	67	61	65	59	55	57	53	49	50	46	43	39
3	79	67	58	51	74	63	55	48	56	49	44	49	43	39	42	38	34	31
4	71	58	49	42	67	55	46	40	48	41	36	42	37	32	37	32	28	25
5	65	51	42	35	61	48	40	33	43	35	30	37	31	27	32	27	23	20
6	60	45	36	29	56	43	34	28	38	31	25	33	27	22	29	24	20	17
7	55	41	32	25	51	38	30	24	34	27	22	30	24	19	26	21	17	15
8	51	37	28	22	47	35	26	21	31	24	19	27	21	17	23	19	15	13
9	47	33	25	19	44	31	24	18	28	21	17	25	19	15	21	17	13	11
10	44	30	22	17	41	29	21	16	26	19	15	23	17	13	20	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3744	3744	3744
5°	3771	3760	3774
10°	3791	3867	3958
15°	3819	4032	4249
20°	3852	4267	4687
25°	3900	4586	5351
30°	3965	5035	6197
35°	4069	5617	7243
40°	4229	6314	8467
45°	4434	7129	9905
50°	4672	8065	11544
55°	4894	9110	13364
60°	5098	10290	15243
65°	5235	11541	13997
70°	5319	11986	15466
75°	5352	12740	17758
80°	5297	15493	24367
85°	5213	25511	39727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	1.0
10°-20°	773.9	3.1
20°-30°	1356.1	5.4
30°-40°	2029.5	8.0
40°-50°	2735.1	10.8
50°-60°	3265.4	12.9
60°-70°	3087.4	12.2
70°-80°	2358.4	9.3
80°-90°	1471.4	5.8
90°-100°	157.1	0.6
100°-110°	826.2	3.3
110°-120°	1450.7	5.7
120°-130°	1810.1	7.2
130°-140°	1575.7	6.2
140°-150°	1052.3	4.2
150°-160°	605.4	2.4
160°-170°	377.1	1.5
170°-180°	131.6	0.5
0°-30°	2381.5	9.4
0°-40°	4411.0	17.4
0°-60°	10411.5	41.1
0°-90°	17328.7	68.5
90°-120°	2434.1	9.6
90°-150°	6872.2	27.1
90°-180°	7986.0	31.5
0°-180°	25315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2609	2609	2609	2609	2609	
5°	2617	2631	2610	2619	2620	249
15°	2570	2627	2714	2817	2860	727
25°	2463	2602	2896	3248	3379	1137
35°	2323	2572	3206	3895	4134	1458
45°	2185	2563	3512	4529	4880	1688
55°	1956	2485	3641	4893	5341	1746
65°	1542	2153	3399	3943	4122	1520
75°	965	1579	2298	2930	3202	1014
85°	317	690	1549	2147	2412	324
90°	13	83	320	622	795	28
95°	165	88	15	9	6	193
105°	707	804	809	776	714	738
115°	1119	1378	1394	1565	1986	1098
125°	1398	1465	2178	2676	2577	1244
135°	1444	1195	2123	2629	2840	1117
145°	1343	1264	1402	2197	2416	853
155°	1376	1329	1160	1268	1306	639
165°	1431	1406	1346	1348	1215	405
175°	1464	1448	1382	1280	1421	139
180°	1389	1389	1389	1389	1389	



TEST NUMBER: P236531

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7
2.5°	2619.6	2619.6	2626.2	2626.2	2630.6	2630.6	2627.3	2619.6	2614.1	2603.2	2596.6
5°	2617.4	2616.3	2625.1	2625.1	2630.6	2630.6	2627.3	2622.9	2617.4	2609.8	2606.5
7.5°	2611.9	2611.9	2619.6	2621.8	2628.4	2632.8	2633.9	2631.7	2631.7	2628.4	2627.3
10°	2601.0	2603.2	2611.9	2619.6	2636.0	2647.0	2652.5	2654.7	2655.8	2653.6	2655.8
12.5°	2587.8	2590.0	2604.3	2615.2	2625.1	2638.2	2649.2	2660.2	2672.2	2681.0	2691.9
15°	2570.3	2572.5	2586.7	2596.6	2616.3	2638.2	2656.9	2675.5	2697.4	2713.8	2730.3
17.5°	2549.5	2551.7	2564.8	2581.3	2609.8	2638.2	2664.5	2693.0	2724.8	2751.1	2778.5
20°	2522.1	2525.4	2541.8	2563.7	2598.8	2636.0	2672.2	2711.6	2755.5	2793.8	2833.3
22.5°	2494.7	2496.9	2517.7	2545.1	2586.7	2632.8	2678.8	2731.4	2788.3	2842.0	2897.9
25°	2462.9	2465.1	2490.3	2524.3	2573.6	2629.5	2688.6	2752.2	2827.8	2895.7	2970.2
27.5°	2427.9	2431.2	2461.8	2502.4	2559.4	2626.2	2698.5	2778.5	2869.4	2959.3	3057.9
30°	2392.8	2396.1	2431.2	2478.3	2545.1	2624.0	2710.6	2805.9	2923.1	3038.1	3157.6
32.5°	2357.8	2363.2	2402.7	2455.3	2532.0	2622.9	2725.9	2843.1	2987.7	3121.4	3262.7
35°	2322.7	2328.2	2373.1	2432.3	2519.9	2624.0	2743.4	2886.9	3053.5	3205.8	3367.9
37.5°	2288.7	2296.4	2344.6	2411.4	2507.9	2628.4	2769.7	2934.1	3117.0	3289.0	3472.0
40°	2257.0	2264.6	2316.1	2390.6	2498.0	2633.9	2799.3	2981.2	3183.9	3370.1	3573.9
42.5°	2223.0	2231.8	2287.6	2368.7	2487.0	2644.8	2826.7	3028.3	3244.1	3449.0	3663.7
45°	2184.7	2195.6	2253.7	2342.4	2472.8	2653.6	2850.8	3068.8	3294.5	3512.5	3750.3
47.5°	2144.1	2154.0	2215.3	2312.8	2457.5	2656.9	2866.1	3091.8	3331.8	3570.6	3825.9
50°	2092.6	2103.6	2168.2	2274.5	2437.7	2651.4	2866.1	3106.1	3360.3	3612.2	3882.9
52.5°	2032.4	2044.4	2113.4	2228.5	2408.2	2635.0	2856.3	3105.0	3369.0	3637.4	3921.2
55°	1955.7	1972.1	2045.5	2173.7	2369.8	2599.9	2823.4	3085.3	3361.3	3640.7	3936.5
57.5°	1873.5	1886.6	1966.6	2108.0	2316.1	2546.2	2778.5	3046.9	3330.7	3623.2	3931.1
60°	1776.0	1789.1	1876.8	2030.2	2243.8	2468.4	2713.8	2984.5	3283.6	3584.9	3893.8
62.5°	1664.2	1678.5	1772.7	1940.3	2151.8	2377.5	2629.5	2910.0	3215.6	3512.5	3808.4
65°	1541.5	1555.8	1659.9	1837.3	2035.7	2271.2	2532.0	2816.8	3118.1	3398.6	3702.1
67.5°	1409.0	1426.5	1543.7	1720.1	1915.1	2149.6	2414.7	2698.5	2980.1	3274.8	3406.3
70°	1267.6	1288.4	1414.4	1582.1	1777.1	2015.9	2280.0	2546.2	2830.0	2856.3	2821.2
72.5°	1118.6	1148.2	1281.9	1434.2	1627.0	1863.6	2110.2	2380.8	2351.2	2473.9	2665.6
75°	965.2	1000.3	1135.1	1276.4	1469.2	1688.3	1939.2	1944.7	2116.7	2297.5	2465.1
77.5°	805.3	860.1	974.0	1114.2	1292.8	1508.7	1568.9	1733.3	1909.7	2074.0	2249.3
80°	640.9	710.0	806.4	942.2	1109.9	1178.9	1337.7	1513.0	1702.6	1874.6	2030.2
82.5°	476.6	550.0	634.4	748.3	816.2	953.2	1127.4	1306.0	1509.8	1728.9	1944.7
85°	316.6	374.7	437.2	496.3	610.3	770.2	1001.4	1220.5	1405.7	1549.2	1708.1
87.5°	154.5	192.8	237.7	341.8	489.7	596.0	723.1	856.8	997.0	1139.4	1293.9
90°	13.1	15.3	17.5	32.9	65.7	100.8	169.8	204.9	276.1	319.9	396.6
92.5°	26.3	23.0	15.3	11.0	9.9	8.8	6.6	5.5	3.3	1.1	0.0
95°	165.4	178.6	150.1	111.8	97.5	78.9	49.3	32.9	21.9	15.3	12.1
97.5°	304.6	341.8	338.5	286.0	259.7	235.6	198.3	202.7	178.6	147.9	120.5
100°	455.8	519.3	506.2	470.0	438.2	429.5	401.0	385.7	345.1	329.8	345.1
102.5°	608.1	658.5	670.5	705.6	609.2	596.0	597.1	597.1	587.2	573.0	550.0
105°	706.7	748.3	793.2	833.8	888.5	719.8	704.5	764.7	804.2	808.6	812.9
107.5°	795.4	823.9	901.7	954.3	1015.6	1055.1	822.8	826.1	932.4	1000.3	1050.7
110°	914.8	925.8	972.9	1081.4	1135.1	1231.5	1215.0	967.4	929.1	1032.1	1210.7



TEST NUMBER: P236531

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1023.3	1021.1	1004.7	1172.3	1244.6	1324.6	1469.2	1428.7	1154.8	1089.0	1127.4
115°	1118.6	1101.1	1036.5	1192.0	1338.8	1417.7	1538.2	1719.0	1657.7	1393.6	1283.0
117.5°	1198.6	1170.1	1108.8	1188.7	1416.6	1503.2	1608.4	1768.3	1952.4	1908.6	1716.8
120°	1269.8	1239.1	1197.5	1177.8	1410.1	1585.4	1690.5	1819.8	1988.5	2158.4	2172.6
122.5°	1335.6	1303.8	1290.6	1166.8	1357.5	1644.5	1748.6	1872.4	2012.6	2175.9	2336.9
125°	1398.0	1361.8	1359.7	1178.9	1311.5	1618.2	1810.0	1925.0	2041.1	2178.1	2332.6
127.5°	1446.2	1410.1	1406.8	1216.1	1275.3	1509.8	1827.5	1949.1	2070.7	2174.8	2323.8
130°	1479.1	1447.3	1428.7	1293.9	1216.1	1415.5	1724.5	1962.2	2061.9	2183.6	2303.0
132.5°	1474.7	1449.5	1417.7	1345.4	1182.2	1337.7	1553.6	1886.6	2048.8	2149.6	2292.0
135°	1444.0	1428.7	1392.5	1370.6	1172.3	1217.2	1411.2	1680.7	1987.4	2123.3	2238.3
137.5°	1414.4	1406.8	1366.2	1365.1	1217.2	1164.6	1325.7	1497.7	1792.4	2055.4	2184.7
140°	1380.5	1379.4	1342.1	1343.2	1268.7	1129.6	1198.6	1364.0	1567.8	1841.7	2085.0
142.5°	1356.4	1358.6	1321.3	1315.8	1298.3	1147.1	1149.3	1295.0	1399.1	1586.5	1847.2
145°	1343.2	1344.3	1309.3	1296.1	1299.4	1229.3	1118.6	1169.0	1323.5	1402.4	1582.1
147.5°	1355.3	1348.7	1302.7	1277.5	1293.9	1270.9	1157.0	1127.4	1181.1	1323.5	1390.3
150°	1371.7	1364.0	1321.3	1279.7	1287.3	1307.1	1257.8	1144.9	1138.3	1181.1	1318.0
152.5°	1369.5	1372.8	1354.2	1320.2	1311.5	1324.6	1307.1	1245.7	1149.3	1141.6	1176.7
155°	1376.1	1377.2	1371.7	1343.2	1326.8	1331.2	1322.4	1301.6	1252.3	1160.3	1141.6
157.5°	1390.3	1391.4	1382.7	1358.6	1339.9	1335.6	1335.6	1333.4	1314.7	1286.3	1193.1
160°	1404.6	1405.7	1402.4	1383.8	1364.0	1352.0	1345.4	1350.9	1348.7	1338.8	1313.6
162.5°	1418.8	1417.7	1421.0	1409.0	1388.1	1376.1	1359.7	1356.4	1356.4	1356.4	1355.3
165°	1430.9	1429.8	1434.2	1429.8	1415.5	1396.9	1379.4	1364.0	1355.3	1346.5	1352.0
167.5°	1440.7	1439.6	1442.9	1444.0	1437.4	1422.1	1399.1	1382.7	1362.9	1342.1	1331.2
170°	1449.5	1448.4	1450.6	1452.8	1448.4	1440.7	1417.7	1402.4	1381.6	1354.2	1327.9
172.5°	1458.3	1455.0	1455.0	1455.0	1451.7	1445.1	1428.7	1415.5	1399.1	1376.1	1348.7
175°	1463.7	1460.5	1459.4	1456.1	1451.7	1445.1	1429.8	1415.5	1399.1	1381.6	1359.7
177.5°	1465.9	1462.6	1460.5	1457.2	1451.7	1444.0	1427.6	1411.2	1391.4	1369.5	1349.8
180°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2



TEST NUMBER: P236531

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7	2608.7
2.5°	2592.2	2596.6	2598.8	2603.2	2602.1	2603.2	2609.8	2603.2
5°	2605.4	2611.9	2616.3	2621.8	2620.7	2620.7	2625.1	2619.6
7.5°	2629.5	2640.4	2649.2	2656.9	2655.8	2658.0	2664.5	2656.9
10°	2662.3	2678.8	2690.8	2702.9	2707.3	2710.6	2719.3	2716.0
12.5°	2704.0	2728.1	2745.6	2760.9	2767.5	2775.2	2785.1	2779.6
15°	2753.3	2784.0	2807.0	2827.8	2838.7	2850.8	2863.9	2859.6
17.5°	2811.3	2853.0	2881.5	2912.1	2928.6	2943.9	2960.4	2953.8
20°	2881.5	2936.2	2976.8	3015.1	3038.1	3061.1	3075.4	3068.8
22.5°	2959.3	3032.7	3088.5	3141.1	3175.1	3200.3	3220.0	3217.8
25°	3055.7	3146.6	3217.8	3278.1	3325.2	3357.0	3381.1	3378.9
27.5°	3166.3	3273.7	3360.3	3433.7	3491.7	3533.4	3552.0	3554.2
30°	3285.7	3412.8	3515.8	3603.5	3670.3	3716.3	3736.0	3739.3
32.5°	3410.6	3558.6	3674.7	3773.3	3851.1	3904.8	3924.5	3935.4
35°	3534.5	3698.8	3836.8	3953.0	4037.3	4096.5	4117.3	4133.8
37.5°	3657.2	3845.6	3996.8	4122.8	4215.9	4282.8	4309.1	4313.4
40°	3776.6	3977.1	4151.3	4298.1	4403.3	4473.4	4506.3	4519.4
42.5°	3889.4	4114.0	4303.6	4467.9	4586.2	4658.6	4701.3	4714.4
45°	3996.8	4242.2	4443.8	4614.7	4737.4	4818.5	4866.7	4879.9
47.5°	4086.6	4346.3	4566.5	4755.0	4887.5	4978.5	5026.7	5046.4
50°	4162.2	4438.3	4672.8	4870.0	5004.8	5099.0	5152.7	5170.2
52.5°	4218.1	4496.4	4738.5	4947.8	5092.4	5199.8	5254.6	5279.8
55°	4244.4	4535.8	4785.6	5000.4	5143.9	5254.6	5312.6	5341.1
57.5°	4244.4	4536.9	4774.7	4973.0	5113.2	5230.5	5307.2	5335.6
60°	4192.9	4470.1	4725.4	4946.7	5099.0	5214.0	5296.2	5310.4
62.5°	4115.1	4398.9	4654.2	4711.1	4668.4	4621.3	4613.6	4630.1
65°	4006.7	3994.6	3966.1	3919.0	3963.9	4052.7	4094.3	4121.7
67.5°	3349.3	3376.7	3539.9	3668.1	3761.2	3837.9	3892.7	3921.2
70°	3018.4	3201.4	3360.3	3493.9	3568.4	3629.8	3660.4	3685.6
72.5°	2851.9	2998.7	3112.6	3212.3	3269.3	3325.2	3340.5	3357.0
75°	2616.3	2742.3	2869.4	2991.0	3082.0	3149.9	3186.0	3202.5
77.5°	2426.8	2565.9	2676.6	2788.3	2867.2	2923.1	2954.9	2982.3
80°	2194.5	2372.0	2536.3	2685.4	2793.8	2872.7	2926.4	2948.3
82.5°	2147.4	2328.2	2487.0	2610.9	2701.8	2771.9	2808.1	2824.5
85°	1846.1	1967.7	2088.2	2206.6	2301.9	2369.8	2402.7	2412.5
87.5°	1428.7	1554.7	1703.7	1802.3	1902.0	1979.8	2021.4	2029.1
90°	451.4	507.3	604.8	638.7	692.4	754.9	792.1	795.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	11.0	9.9	8.8	8.8	7.7	6.6	5.5	5.5
97.5°	100.8	75.6	60.3	48.2	38.3	34.0	32.9	32.9
100°	345.1	326.5	304.6	299.1	281.6	269.5	257.5	258.6
102.5°	524.8	486.5	496.3	518.2	530.3	534.7	529.2	532.5
105°	815.1	798.7	779.0	773.5	759.3	734.1	713.2	714.3
107.5°	1079.2	1094.5	1104.4	1106.6	1101.1	1093.4	1079.2	1081.4
110°	1288.4	1355.3	1403.5	1444.0	1456.1	1452.8	1458.3	1462.6



TEST NUMBER: P236531

CATALOG NUMBER: SKB4-LD5-30-W-UNV-L850-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1287.3	1519.6	1613.8	1684.0	1726.7	1750.8	1767.2	1778.2
115°	1256.7	1335.6	1481.3	1647.8	1837.3	1938.1	1969.9	1986.3
117.5°	1555.8	1505.4	1505.4	1484.6	1543.7	1620.4	1656.6	1670.8
120°	2054.3	1880.1	1812.1	1779.3	1778.2	1788.0	1777.1	1777.1
122.5°	2437.7	2376.4	2297.5	2220.8	2140.8	2120.0	2099.2	2102.5
125°	2505.7	2654.7	2682.1	2668.9	2641.5	2606.5	2576.9	2576.9
127.5°	2469.5	2655.8	2781.8	2881.5	2953.8	2937.3	2929.7	2930.8
130°	2448.7	2595.5	2725.9	2856.3	2948.3	3003.1	3029.4	3039.2
132.5°	2421.3	2540.7	2662.3	2765.3	2836.5	2896.8	2928.6	2940.6
135°	2364.3	2496.9	2586.7	2672.2	2745.6	2802.6	2824.5	2839.8
137.5°	2288.7	2399.4	2504.6	2604.3	2667.8	2704.0	2713.8	2720.4
140°	2218.6	2311.7	2398.3	2475.0	2544.0	2604.3	2627.3	2636.0
142.5°	2082.8	2227.4	2297.5	2365.4	2421.3	2478.3	2509.0	2516.6
145°	1784.8	2011.5	2146.3	2248.2	2310.7	2362.1	2391.7	2415.8
147.5°	1539.3	1698.2	1830.8	1983.1	2092.6	2186.8	2235.1	2246.0
150°	1370.6	1465.9	1560.2	1648.9	1737.6	1818.7	1862.5	1870.2
152.5°	1240.2	1360.8	1392.5	1425.4	1483.5	1532.8	1540.4	1547.0
155°	1151.5	1177.8	1227.1	1308.2	1352.0	1341.0	1322.4	1306.0
157.5°	1148.2	1130.7	1138.3	1143.8	1128.5	1105.5	1072.6	1049.6
160°	1278.6	1190.9	1151.5	1120.8	1072.6	1024.4	972.9	967.4
162.5°	1348.7	1323.5	1302.7	1268.7	1180.0	1091.2	1059.5	1055.1
165°	1356.4	1356.4	1354.2	1341.0	1288.4	1234.8	1216.1	1215.0
167.5°	1327.9	1335.6	1339.9	1344.3	1327.9	1301.6	1275.3	1270.9
170°	1307.1	1302.7	1301.6	1298.3	1314.7	1311.5	1278.6	1246.8
172.5°	1313.6	1295.0	1283.0	1279.7	1309.3	1338.8	1318.0	1304.9
175°	1323.5	1292.8	1275.3	1284.1	1319.1	1377.2	1410.1	1421.0
177.5°	1314.7	1275.3	1255.6	1275.3	1318.0	1395.8	1483.5	1519.6
180°	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2	1389.2

(END OF REPORT)