

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: P236528

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236528
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-LD5-24-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

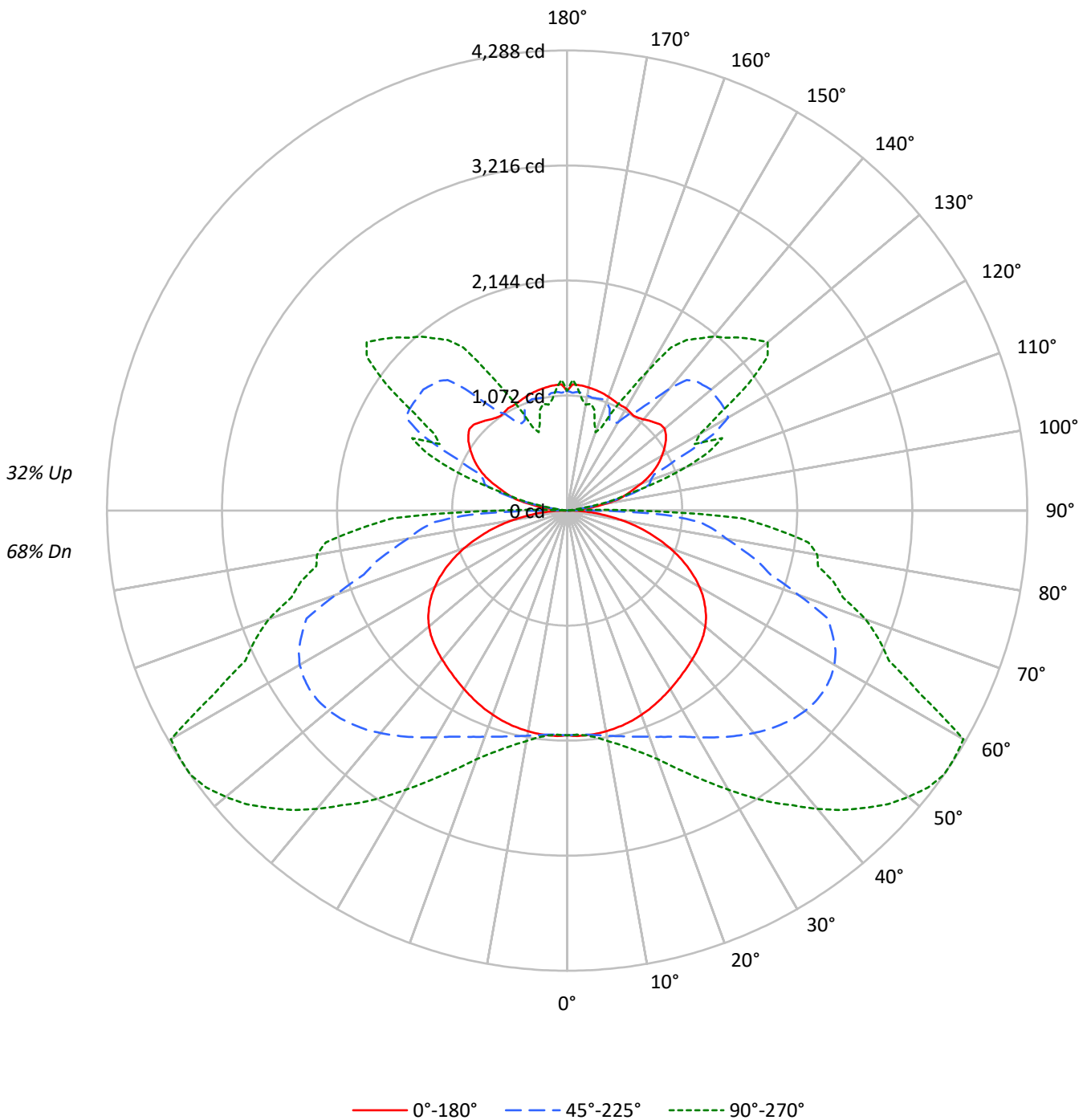
Lumens per Lamp: N/A
Luminaire Lumens: 20323.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 2.46 / 2.11
Luminous Opening: Rectangular (W 1.88' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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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CATALOG NUMBER: SKB4-LD5-24-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°	3006	3006	3006
5°	3027	3018	3030
10°	3043	3105	3178
15°	3066	3237	3411
20°	3092	3426	3763
25°	3131	3681	4296
30°	3184	4042	4975
35°	3267	4509	5814
40°	3395	5069	6797
45°	3560	5723	7951
50°	3751	6475	9268
55°	3928	7313	10729
60°	4093	8261	12237
65°	4202	9265	11237
70°	4270	9622	12416
75°	4297	10227	14257
80°	4252	12438	19562
85°	4186	20480	31893



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.0
10°-20°	621.3	3.1
20°-30°	1088.7	5.4
30°-40°	1629.3	8.0
40°-50°	2195.8	10.8
50°-60°	2621.5	12.9
60°-70°	2478.6	12.2
70°-80°	1893.3	9.3
80°-90°	1181.3	5.8
90°-100°	126.2	0.6
100°-110°	663.3	3.3
110°-120°	1164.6	5.7
120°-130°	1453.2	7.2
130°-140°	1265.0	6.2
140°-150°	844.8	4.2
150°-160°	486.0	2.4
160°-170°	302.7	1.5
170°-180°	105.7	0.5
0°-30°	1911.9	9.4
0°-40°	3541.2	17.4
0°-60°	8358.4	41.1
0°-90°	13911.6	68.5
90°-120°	1954.1	9.6
90°-150°	5517.0	27.1
90°-180°	6411.0	31.5
0°-180°	20323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2094	2094	2094	2094	2094	
5°	2101	2112	2095	2103	2103	200
15°	2064	2109	2179	2262	2296	583
25°	1977	2089	2325	2608	2713	913
35°	1865	2065	2574	3127	3319	1170
45°	1754	2058	2820	3636	3918	1355
55°	1570	1995	2923	3928	4288	1402
65°	1238	1729	2728	3165	3309	1220
75°	775	1267	1844	2352	2571	814
85°	254	554	1244	1724	1937	260
90°	11	67	257	499	639	23
95°	133	71	12	7	4	155
105°	567	646	649	623	574	592
115°	898	1106	1119	1256	1595	881
125°	1122	1176	1749	2148	2069	999
135°	1159	959	1705	2111	2280	897
145°	1078	1015	1126	1764	1939	685
155°	1105	1067	932	1018	1048	513
165°	1149	1129	1081	1082	975	325
175°	1175	1163	1109	1027	1141	112
180°	1115	1115	1115	1115	1115	



TEST NUMBER: P236528

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2103.0	2103.0	2108.3	2108.3	2111.8	2111.8	2109.2	2103.0	2098.6	2089.8	2084.6
5°	2101.3	2100.4	2107.4	2107.4	2111.8	2111.8	2109.2	2105.7	2101.3	2095.1	2092.5
7.5°	2096.9	2096.9	2103.0	2104.8	2110.1	2113.6	2114.5	2112.7	2112.7	2110.1	2109.2
10°	2088.1	2089.8	2096.9	2103.0	2116.2	2125.0	2129.4	2131.2	2132.1	2130.3	2132.1
12.5°	2077.5	2079.3	2090.7	2099.5	2107.4	2118.0	2126.8	2135.6	2145.3	2152.3	2161.1
15°	2063.5	2065.2	2076.7	2084.6	2100.4	2118.0	2132.9	2147.9	2165.5	2178.7	2191.9
17.5°	2046.7	2048.5	2059.1	2072.3	2095.1	2118.0	2139.1	2162.0	2187.5	2208.6	2230.6
20°	2024.8	2027.4	2040.6	2058.2	2086.3	2116.2	2145.3	2176.9	2212.1	2242.9	2274.6
22.5°	2002.8	2004.5	2021.2	2043.2	2076.7	2113.6	2150.5	2192.8	2238.5	2281.6	2326.4
25°	1977.3	1979.0	1999.3	2026.5	2066.1	2111.0	2158.5	2209.5	2270.2	2324.7	2384.5
27.5°	1949.1	1951.8	1976.4	2008.9	2054.7	2108.3	2166.4	2230.6	2303.6	2375.7	2454.9
30°	1921.0	1923.6	1951.8	1989.6	2043.2	2106.6	2176.0	2252.6	2346.7	2439.0	2534.9
32.5°	1892.8	1897.2	1928.9	1971.1	2032.7	2105.7	2188.4	2282.5	2398.6	2505.9	2619.3
35°	1864.7	1869.1	1905.1	1952.6	2023.0	2106.6	2202.4	2317.7	2451.3	2573.6	2703.8
37.5°	1837.4	1843.6	1882.3	1935.9	2013.3	2110.1	2223.5	2355.5	2502.4	2640.5	2787.3
40°	1811.9	1818.1	1859.4	1919.2	2005.4	2114.5	2247.3	2393.3	2556.0	2705.5	2869.1
42.5°	1784.6	1791.7	1836.5	1901.6	1996.6	2123.3	2269.3	2431.1	2604.4	2768.9	2941.3
45°	1753.9	1762.6	1809.3	1880.5	1985.2	2130.3	2288.6	2463.7	2644.9	2819.9	3010.8
47.5°	1721.3	1729.2	1778.5	1856.8	1972.9	2132.9	2300.9	2482.1	2674.8	2866.5	3071.4
50°	1680.0	1688.8	1740.7	1826.0	1957.0	2128.5	2300.9	2493.6	2697.6	2899.9	3117.2
52.5°	1631.6	1641.3	1696.7	1789.0	1933.3	2115.4	2293.0	2492.7	2704.7	2920.2	3148.0
55°	1570.0	1583.2	1642.1	1745.1	1902.5	2087.2	2266.6	2476.9	2698.5	2922.8	3160.3
57.5°	1504.1	1514.6	1578.8	1692.3	1859.4	2044.1	2230.6	2446.1	2673.9	2908.7	3155.9
60°	1425.8	1436.3	1506.7	1629.8	1801.3	1981.7	2178.7	2395.9	2636.1	2877.9	3126.0
62.5°	1336.1	1347.5	1423.1	1557.7	1727.5	1908.7	2111.0	2336.1	2581.5	2819.9	3057.4
65°	1237.5	1249.0	1332.5	1475.0	1634.2	1823.3	2032.7	2261.4	2503.2	2728.4	2972.0
67.5°	1131.1	1145.2	1239.3	1380.9	1537.5	1725.7	1938.6	2166.4	2392.4	2629.0	2734.6
70°	1017.7	1034.4	1135.5	1270.1	1426.7	1618.4	1830.4	2044.1	2271.9	2293.0	2264.9
72.5°	898.0	921.8	1029.1	1151.4	1306.2	1496.1	1694.0	1911.3	1887.5	1986.1	2140.0
75°	774.9	803.0	911.2	1024.7	1179.5	1355.4	1556.8	1561.2	1699.3	1844.4	1979.0
77.5°	646.5	690.5	781.9	894.5	1037.9	1211.2	1259.5	1391.5	1533.1	1665.0	1805.7
80°	514.5	570.0	647.4	756.4	891.0	946.4	1073.9	1214.7	1366.8	1504.9	1629.8
82.5°	382.6	441.5	509.3	600.7	655.3	765.2	905.1	1048.4	1212.0	1388.0	1561.2
85°	254.2	300.8	350.9	398.4	489.9	618.3	803.9	979.8	1128.5	1243.7	1371.2
87.5°	124.0	154.8	190.9	274.4	393.2	478.5	580.5	687.8	800.4	914.7	1038.8
90°	10.6	12.3	14.1	26.4	52.8	80.9	136.3	164.5	221.7	256.8	318.4
92.5°	21.1	18.5	12.3	8.8	7.9	7.0	5.3	4.4	2.6	0.9	0.0
95°	132.8	143.4	120.5	89.7	78.3	63.3	39.6	26.4	17.6	12.3	9.7
97.5°	244.5	274.4	271.8	229.6	208.5	189.1	159.2	162.7	143.4	118.7	96.8
100°	365.9	416.9	406.4	377.3	351.8	344.8	321.9	309.6	277.1	264.7	277.1
102.5°	488.2	528.6	538.3	566.4	489.0	478.5	479.4	479.4	471.4	460.0	441.5
105°	567.3	600.7	636.8	669.3	713.3	577.9	565.6	613.9	645.6	649.1	652.6
107.5°	638.6	661.4	723.9	766.1	815.4	847.0	660.6	663.2	748.5	803.0	843.5
110°	734.4	743.2	781.1	868.1	911.2	988.6	975.4	776.7	745.9	828.6	971.9



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

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	821.5	819.8	806.6	941.1	999.2	1063.4	1179.5	1147.0	927.1	874.3	905.1
115°	898.0	884.0	832.1	957.0	1074.8	1138.2	1234.9	1380.0	1330.8	1118.8	1030.0
117.5°	962.2	939.4	890.1	954.3	1137.3	1206.8	1291.2	1419.6	1567.4	1532.2	1378.3
120°	1019.4	994.8	961.4	945.5	1132.0	1272.7	1357.2	1461.0	1596.4	1732.7	1744.2
122.5°	1072.2	1046.7	1036.1	936.7	1089.8	1320.2	1403.8	1503.2	1615.8	1746.8	1876.1
125°	1122.3	1093.3	1091.5	946.4	1052.8	1299.1	1453.0	1545.4	1638.6	1748.6	1872.6
127.5°	1161.0	1132.0	1129.4	976.3	1023.8	1212.0	1467.1	1564.7	1662.4	1745.9	1865.6
130°	1187.4	1161.9	1147.0	1038.8	976.3	1136.4	1384.4	1575.3	1655.3	1753.0	1848.8
132.5°	1183.9	1163.7	1138.2	1080.1	949.1	1073.9	1247.2	1514.6	1644.8	1725.7	1840.0
135°	1159.3	1147.0	1117.9	1100.3	941.1	977.2	1132.9	1349.3	1595.5	1704.6	1797.0
137.5°	1135.5	1129.4	1096.8	1095.9	977.2	935.0	1064.3	1202.4	1439.0	1650.1	1753.9
140°	1108.3	1107.4	1077.5	1078.3	1018.5	906.8	962.2	1095.1	1258.7	1478.5	1673.8
142.5°	1088.9	1090.7	1060.8	1056.4	1042.3	920.9	922.7	1039.6	1123.2	1273.6	1482.9
145°	1078.3	1079.2	1051.1	1040.5	1043.2	986.9	898.0	938.5	1062.5	1125.8	1270.1
147.5°	1088.0	1082.7	1045.8	1025.6	1038.8	1020.3	928.8	905.1	948.2	1062.5	1116.2
150°	1101.2	1095.1	1060.8	1027.3	1033.5	1049.3	1009.7	919.1	913.9	948.2	1058.1
152.5°	1099.5	1102.1	1087.1	1059.9	1052.8	1063.4	1049.3	1000.1	922.7	916.5	944.7
155°	1104.7	1105.6	1101.2	1078.3	1065.2	1068.7	1061.6	1044.9	1005.3	931.5	916.5
157.5°	1116.2	1117.0	1110.0	1090.7	1075.7	1072.2	1072.2	1070.4	1055.5	1032.6	957.8
160°	1127.6	1128.5	1125.8	1110.9	1095.1	1085.4	1080.1	1084.5	1082.7	1074.8	1054.6
162.5°	1139.0	1138.2	1140.8	1131.1	1114.4	1104.7	1091.5	1088.9	1088.9	1088.9	1088.0
165°	1148.7	1147.8	1151.4	1147.8	1136.4	1121.4	1107.4	1095.1	1088.0	1081.0	1085.4
167.5°	1156.6	1155.7	1158.4	1159.3	1154.0	1141.7	1123.2	1110.0	1094.2	1077.5	1068.7
170°	1163.7	1162.8	1164.5	1166.3	1162.8	1156.6	1138.2	1125.8	1109.1	1087.1	1066.0
172.5°	1170.7	1168.1	1168.1	1168.1	1165.4	1160.1	1147.0	1136.4	1123.2	1104.7	1082.7
175°	1175.1	1172.5	1171.6	1168.9	1165.4	1160.1	1147.8	1136.4	1123.2	1109.1	1091.5
177.5°	1176.9	1174.2	1172.5	1169.8	1165.4	1159.3	1146.1	1132.9	1117.0	1099.5	1083.6
180°	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3



TEST NUMBER: P236528

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2	2094.2
2.5°	2081.1	2084.6	2086.3	2089.8	2089.0	2089.8	2095.1	2089.8
5°	2091.6	2096.9	2100.4	2104.8	2103.9	2103.9	2107.4	2103.0
7.5°	2111.0	2119.8	2126.8	2132.9	2132.1	2133.8	2139.1	2132.9
10°	2137.3	2150.5	2160.2	2169.9	2173.4	2176.0	2183.1	2180.4
12.5°	2170.8	2190.1	2204.2	2216.5	2221.8	2227.9	2235.9	2231.5
15°	2210.3	2235.0	2253.4	2270.2	2279.0	2288.6	2299.2	2295.7
17.5°	2257.0	2290.4	2313.3	2337.9	2351.1	2363.4	2376.6	2371.3
20°	2313.3	2357.2	2389.8	2420.6	2439.0	2457.5	2468.9	2463.7
22.5°	2375.7	2434.6	2479.5	2521.7	2549.0	2569.2	2585.0	2583.3
25°	2453.1	2526.1	2583.3	2631.7	2669.5	2695.0	2714.3	2712.6
27.5°	2541.9	2628.1	2697.6	2756.6	2803.2	2836.6	2851.5	2853.3
30°	2637.8	2739.8	2822.5	2892.9	2946.5	2983.5	2999.3	3002.0
32.5°	2738.1	2856.8	2950.1	3029.2	3091.7	3134.8	3150.6	3159.4
35°	2837.5	2969.4	3080.2	3173.5	3241.2	3288.7	3305.4	3318.6
37.5°	2936.0	3087.3	3208.7	3309.8	3384.6	3438.2	3459.3	3462.8
40°	3031.9	3192.8	3332.7	3450.5	3535.0	3591.3	3617.6	3628.2
42.5°	3122.5	3302.8	3454.9	3586.9	3681.9	3739.9	3774.2	3784.8
45°	3208.7	3405.7	3567.5	3704.7	3803.2	3868.3	3907.0	3917.6
47.5°	3280.8	3489.2	3666.0	3817.3	3923.7	3996.7	4035.4	4051.3
50°	3341.5	3563.1	3751.3	3909.7	4017.9	4093.5	4136.6	4150.7
52.5°	3386.3	3609.7	3804.1	3972.1	4088.2	4174.4	4218.4	4238.6
55°	3407.4	3641.4	3841.9	4014.3	4129.6	4218.4	4265.0	4287.9
57.5°	3407.4	3642.3	3833.1	3992.3	4104.9	4199.0	4260.6	4283.5
60°	3366.1	3588.6	3793.6	3971.2	4093.5	4185.8	4251.8	4263.3
62.5°	3303.6	3531.5	3736.4	3782.1	3747.8	3710.0	3703.8	3717.0
65°	3216.6	3206.9	3184.0	3146.2	3182.3	3253.5	3286.9	3308.9
67.5°	2688.8	2710.8	2841.9	2944.8	3019.5	3081.1	3125.1	3148.0
70°	2423.2	2570.1	2697.6	2804.9	2864.7	2914.0	2938.6	2958.9
72.5°	2289.5	2407.4	2498.8	2578.9	2624.6	2669.5	2681.8	2695.0
75°	2100.4	2201.6	2303.6	2401.2	2474.2	2528.7	2557.8	2571.0
77.5°	1948.2	2059.9	2148.8	2238.5	2301.8	2346.7	2372.2	2394.2
80°	1761.8	1904.3	2036.2	2155.8	2242.9	2306.2	2349.3	2366.9
82.5°	1723.9	1869.1	1996.6	2096.0	2169.0	2225.3	2254.3	2267.5
85°	1482.1	1579.7	1676.5	1771.4	1848.0	1902.5	1928.9	1936.8
87.5°	1147.0	1248.1	1367.7	1446.9	1526.9	1589.4	1622.8	1629.0
90°	362.4	407.2	485.5	512.8	555.9	606.0	635.9	638.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	8.8	7.9	7.0	7.0	6.2	5.3	4.4	4.4
97.5°	80.9	60.7	48.4	38.7	30.8	27.3	26.4	26.4
100°	277.1	262.1	244.5	240.1	226.0	216.4	206.7	207.6
102.5°	421.3	390.5	398.4	416.0	425.7	429.2	424.8	427.5
105°	654.4	641.2	625.4	621.0	609.5	589.3	572.6	573.5
107.5°	866.4	878.7	886.6	888.4	884.0	877.8	866.4	868.1
110°	1034.4	1088.0	1126.7	1159.3	1168.9	1166.3	1170.7	1174.2



TEST NUMBER: P236528

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1033.5	1220.0	1295.6	1351.9	1386.2	1405.5	1418.7	1427.5
115°	1008.9	1072.2	1189.2	1322.9	1475.0	1556.0	1581.5	1594.7
117.5°	1249.0	1208.5	1208.5	1191.8	1239.3	1300.9	1329.9	1341.3
120°	1649.2	1509.3	1454.8	1428.4	1427.5	1435.4	1426.7	1426.7
122.5°	1957.0	1907.8	1844.4	1782.9	1718.7	1702.0	1685.2	1687.9
125°	2011.6	2131.2	2153.2	2142.6	2120.6	2092.5	2068.7	2068.7
127.5°	1982.5	2132.1	2233.2	2313.3	2371.3	2358.1	2352.0	2352.8
130°	1965.8	2083.7	2188.4	2293.0	2366.9	2410.9	2432.0	2439.9
132.5°	1943.8	2039.7	2137.3	2220.0	2277.2	2325.6	2351.1	2360.8
135°	1898.1	2004.5	2076.7	2145.3	2204.2	2249.9	2267.5	2279.8
137.5°	1837.4	1926.2	2010.7	2090.7	2141.7	2170.8	2178.7	2184.0
140°	1781.1	1855.9	1925.4	1986.9	2042.3	2090.7	2109.2	2116.2
142.5°	1672.1	1788.2	1844.4	1899.0	1943.8	1989.6	2014.2	2020.4
145°	1432.8	1614.9	1723.1	1804.9	1855.0	1896.3	1920.1	1939.4
147.5°	1235.8	1363.3	1469.8	1592.0	1680.0	1755.6	1794.3	1803.1
150°	1100.3	1176.9	1252.5	1323.7	1395.0	1460.1	1495.3	1501.4
152.5°	995.7	1092.4	1117.9	1144.3	1190.9	1230.5	1236.7	1241.9
155°	924.4	945.5	985.1	1050.2	1085.4	1076.6	1061.6	1048.4
157.5°	921.8	907.7	913.9	918.3	906.0	887.5	861.1	842.6
160°	1026.5	956.1	924.4	899.8	861.1	822.4	781.1	776.7
162.5°	1082.7	1062.5	1045.8	1018.5	947.3	876.0	850.5	847.0
165°	1088.9	1088.9	1087.1	1076.6	1034.4	991.3	976.3	975.4
167.5°	1066.0	1072.2	1075.7	1079.2	1066.0	1044.9	1023.8	1020.3
170°	1049.3	1045.8	1044.9	1042.3	1055.5	1052.8	1026.5	1000.9
172.5°	1054.6	1039.6	1030.0	1027.3	1051.1	1074.8	1058.1	1047.6
175°	1062.5	1037.9	1023.8	1030.8	1059.0	1105.6	1132.0	1140.8
177.5°	1055.5	1023.8	1008.0	1023.8	1058.1	1120.6	1190.9	1220.0
180°	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3

(END OF REPORT)