

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: P236527

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236527  
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-L840-CD4-U all blades horizontal  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES HORIZONTAL  
Light Source: (952) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

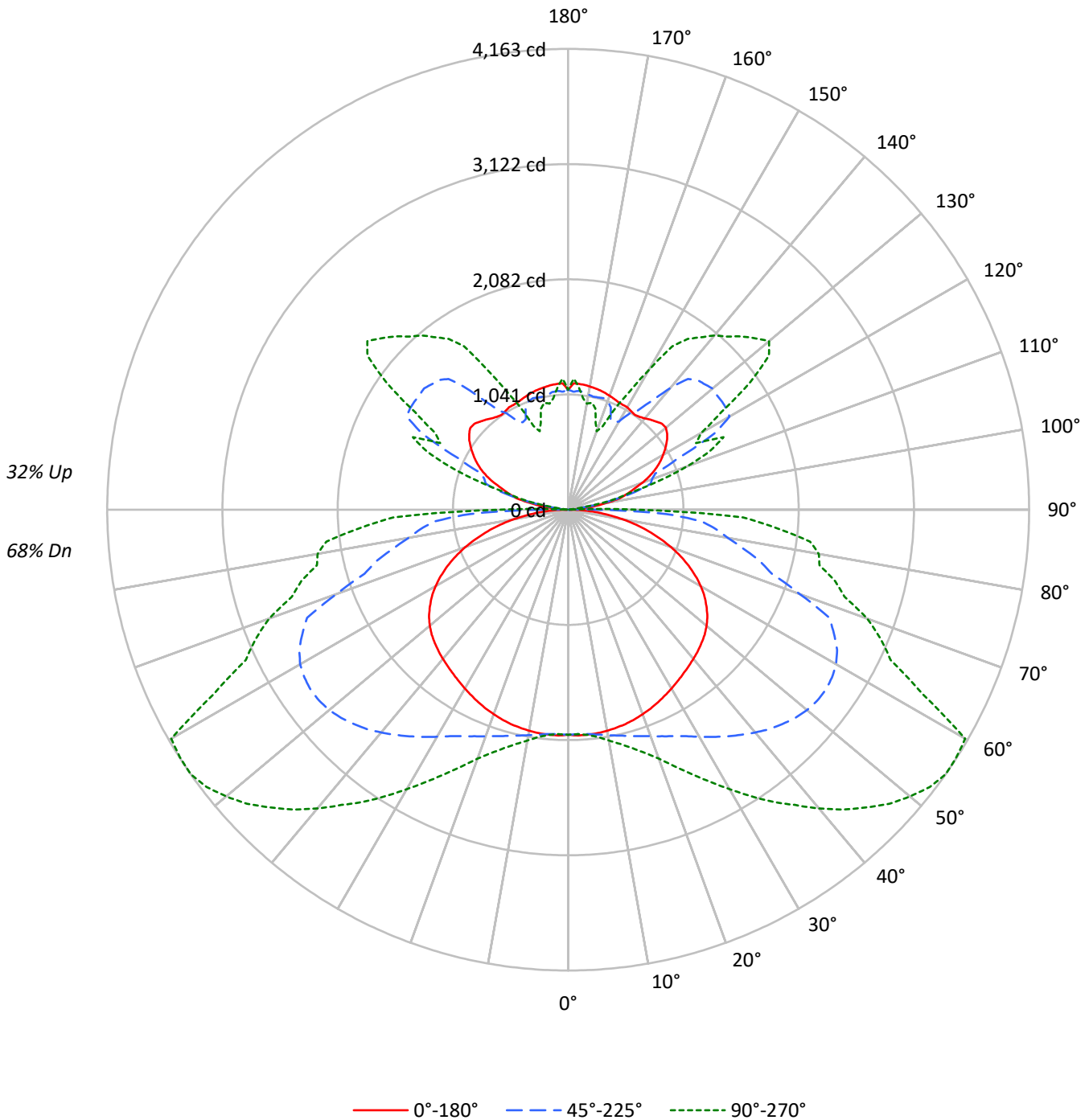
Lumens per Lamp: N/A  
Luminaire Lumens: 19731.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.37 / 2.46 / 2.11  
Luminous Opening: Rectangular (W 1.88' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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-L840-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°	2918	2918	2918
5°	2939	2930	2942
10°	2954	3014	3085
15°	2977	3143	3312
20°	3002	3326	3653
25°	3040	3574	4170
30°	3091	3924	4830
35°	3172	4378	5645
40°	3296	4921	6599
45°	3456	5557	7720
50°	3642	6286	8998
55°	3814	7100	10417
60°	3973	8020	11881
65°	4080	8996	10909
70°	4146	9342	12054
75°	4172	9930	13841
80°	4129	12076	18993
85°	4064	19884	30964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.0	1.0
10°-20°	603.2	3.1
20°-30°	1057.0	5.4
30°-40°	1581.8	8.0
40°-50°	2131.8	10.8
50°-60°	2545.1	12.9
60°-70°	2406.4	12.2
70°-80°	1838.2	9.3
80°-90°	1146.9	5.8
90°-100°	122.5	0.6
100°-110°	644.0	3.3
110°-120°	1130.7	5.7
120°-130°	1410.8	7.2
130°-140°	1228.2	6.2
140°-150°	820.2	4.2
150°-160°	471.9	2.4
160°-170°	293.9	1.5
170°-180°	102.6	0.5
0°-30°	1856.2	9.4
0°-40°	3438.0	17.4
0°-60°	8114.9	41.1
0°-90°	13506.3	68.5
90°-120°	1897.1	9.6
90°-150°	5356.3	27.1
90°-180°	6225.0	31.5
0°-180°	19731.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2040	2050	2034	2041	2042	194
15°	2003	2048	2115	2196	2229	566
25°	1920	2028	2257	2532	2634	886
35°	1810	2005	2499	3036	3222	1136
45°	1703	1998	2738	3530	3804	1316
55°	1524	1937	2838	3814	4163	1361
65°	1202	1678	2649	3073	3212	1184
75°	752	1230	1791	2284	2496	790
85°	247	538	1208	1674	1880	252
90°	10	65	249	485	620	22
95°	129	69	12	7	4	151
105°	551	627	630	605	557	575
115°	872	1074	1086	1219	1548	856
125°	1090	1142	1698	2085	2008	970
135°	1126	931	1655	2050	2213	871
145°	1047	985	1093	1713	1883	665
155°	1073	1036	904	988	1018	498
165°	1115	1096	1050	1050	947	315
175°	1141	1129	1077	997	1108	108
180°	1083	1083	1083	1083	1083	



TEST NUMBER: P236527

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2
2.5°	2041.8	2041.8	2046.9	2046.9	2050.3	2050.3	2047.8	2041.8	2037.5	2029.0	2023.8
5°	2040.1	2039.2	2046.0	2046.0	2050.3	2050.3	2047.8	2044.3	2040.1	2034.1	2031.5
7.5°	2035.8	2035.8	2041.8	2043.5	2048.6	2052.0	2052.9	2051.2	2051.2	2048.6	2047.8
10°	2027.3	2029.0	2035.8	2041.8	2054.6	2063.1	2067.4	2069.1	2070.0	2068.3	2070.0
12.5°	2017.0	2018.7	2029.8	2038.4	2046.0	2056.3	2064.8	2073.4	2082.8	2089.6	2098.1
15°	2003.4	2005.1	2016.2	2023.8	2039.2	2056.3	2070.8	2085.3	2102.4	2115.2	2128.0
17.5°	1987.1	1988.8	1999.1	2011.9	2034.1	2056.3	2076.8	2099.0	2123.8	2144.3	2165.6
20°	1965.8	1968.3	1981.1	1998.2	2025.6	2054.6	2082.8	2113.5	2147.7	2177.6	2208.3
22.5°	1944.4	1946.1	1962.4	1983.7	2016.2	2052.0	2087.9	2128.9	2173.3	2215.1	2258.7
25°	1919.7	1921.4	1941.0	1967.5	2005.9	2049.5	2095.6	2145.1	2204.0	2257.0	2315.0
27.5°	1892.3	1894.9	1918.8	1950.4	1994.8	2046.9	2103.3	2165.6	2236.5	2306.5	2383.4
30°	1865.0	1867.6	1894.9	1931.6	1983.7	2045.2	2112.7	2186.9	2278.3	2368.0	2461.1
32.5°	1837.7	1842.0	1872.7	1913.7	1973.5	2044.3	2124.6	2216.0	2328.7	2432.9	2543.0
35°	1810.4	1814.6	1849.6	1895.8	1964.1	2045.2	2138.3	2250.1	2379.9	2498.6	2625.0
37.5°	1783.9	1789.9	1827.4	1879.5	1954.7	2048.6	2158.8	2286.9	2429.5	2563.5	2706.1
40°	1759.1	1765.1	1805.2	1863.3	1947.0	2052.9	2181.8	2323.6	2481.6	2626.7	2785.6
42.5°	1732.7	1739.5	1783.0	1846.2	1938.5	2061.4	2203.2	2360.3	2528.5	2688.2	2855.6
45°	1702.8	1711.3	1756.6	1825.7	1927.4	2068.3	2222.0	2391.9	2567.8	2737.7	2923.0
47.5°	1671.2	1678.9	1726.7	1802.7	1915.4	2070.8	2233.9	2409.8	2596.8	2783.0	2982.0
50°	1631.0	1639.6	1690.0	1772.8	1900.0	2066.5	2233.9	2420.9	2619.0	2815.5	3026.4
52.5°	1584.1	1593.5	1647.3	1736.9	1877.0	2053.7	2226.2	2420.1	2625.9	2835.1	3056.3
55°	1524.3	1537.1	1594.3	1694.2	1847.1	2026.4	2200.6	2404.7	2619.9	2837.7	3068.2
57.5°	1460.2	1470.5	1532.8	1643.0	1805.2	1984.6	2165.6	2374.8	2596.0	2824.0	3063.9
60°	1384.2	1394.5	1462.8	1582.4	1748.9	1923.9	2115.2	2326.1	2559.3	2794.1	3034.9
62.5°	1297.1	1308.2	1381.7	1512.3	1677.1	1853.1	2049.5	2268.1	2506.3	2737.7	2968.3
65°	1201.5	1212.6	1293.7	1432.1	1586.6	1770.2	1973.5	2195.5	2430.3	2648.9	2885.5
67.5°	1098.2	1111.8	1203.2	1340.7	1492.7	1675.4	1882.1	2103.3	2322.7	2552.4	2654.9
70°	988.0	1004.2	1102.4	1233.1	1385.1	1571.3	1777.1	1984.6	2205.7	2226.2	2198.9
72.5°	871.9	894.9	999.1	1117.8	1268.1	1452.6	1644.7	1855.6	1832.6	1928.2	2077.6
75°	752.3	779.7	884.7	994.8	1145.1	1315.9	1511.5	1515.7	1649.8	1790.7	1921.4
77.5°	627.6	670.3	759.2	868.5	1007.7	1175.9	1222.8	1350.9	1488.4	1616.5	1753.1
80°	499.6	553.4	628.5	734.4	865.0	918.8	1042.7	1179.3	1327.0	1461.1	1582.4
82.5°	371.5	428.7	494.4	583.2	636.2	742.9	878.7	1017.9	1176.7	1347.5	1515.7
85°	246.8	292.0	340.7	386.8	475.6	600.3	780.5	951.3	1095.6	1207.5	1331.3
87.5°	120.4	150.3	185.3	266.4	381.7	464.5	563.6	667.8	777.1	888.1	1008.5
90°	10.2	12.0	13.7	25.6	51.2	78.6	132.4	159.7	215.2	249.4	309.1
92.5°	20.5	17.9	12.0	8.5	7.7	6.8	5.1	4.3	2.6	0.9	0.0
95°	128.9	139.2	117.0	87.1	76.0	61.5	38.4	25.6	17.1	12.0	9.4
97.5°	237.4	266.4	263.9	222.9	202.4	183.6	154.6	158.0	139.2	115.3	93.9
100°	355.2	404.8	394.5	366.3	341.6	334.7	312.5	300.6	269.0	257.0	269.0
102.5°	473.9	513.2	522.6	549.9	474.8	464.5	465.4	465.4	457.7	446.6	428.7
105°	550.8	583.2	618.3	649.9	692.5	561.0	549.1	596.1	626.8	630.2	633.6
107.5°	620.0	642.2	702.8	743.8	791.6	822.3	641.3	643.9	726.7	779.7	818.9
110°	713.0	721.6	758.3	842.8	884.7	959.8	947.0	754.0	724.1	804.4	943.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	797.6	795.9	783.1	913.7	970.1	1032.4	1145.1	1113.5	900.1	848.8	878.7
115°	871.9	858.2	807.8	929.1	1043.5	1105.0	1198.9	1339.8	1292.0	1086.2	1000.0
117.5°	934.2	912.0	864.2	926.5	1104.1	1171.6	1253.6	1378.3	1521.7	1487.6	1338.1
120°	989.7	965.8	933.4	918.0	1099.0	1235.7	1317.6	1418.4	1549.9	1682.3	1693.4
122.5°	1041.0	1016.2	1005.9	909.4	1058.0	1281.8	1362.9	1459.4	1568.7	1695.9	1821.5
125°	1089.6	1061.5	1059.7	918.8	1022.2	1261.3	1410.7	1500.4	1590.9	1697.6	1818.0
127.5°	1127.2	1099.0	1096.5	947.9	994.0	1176.7	1424.4	1519.2	1614.0	1695.1	1811.2
130°	1152.8	1128.1	1113.5	1008.5	947.9	1103.3	1344.1	1529.4	1607.1	1701.9	1795.0
132.5°	1149.4	1129.8	1105.0	1048.6	921.4	1042.7	1210.9	1470.5	1596.9	1675.4	1786.4
135°	1125.5	1113.5	1085.4	1068.3	913.7	948.7	1099.9	1309.9	1549.1	1654.9	1744.6
137.5°	1102.4	1096.5	1064.9	1064.0	948.7	907.7	1033.3	1167.3	1397.1	1602.0	1702.8
140°	1076.0	1075.1	1046.1	1046.9	988.9	880.4	934.2	1063.2	1222.0	1435.5	1625.1
142.5°	1057.2	1058.9	1029.9	1025.6	1011.9	894.1	895.8	1009.4	1090.5	1236.5	1439.7
145°	1046.9	1047.8	1020.5	1010.2	1012.8	958.1	871.9	911.2	1031.6	1093.0	1233.1
147.5°	1056.3	1051.2	1015.3	995.7	1008.5	990.6	901.8	878.7	920.6	1031.6	1083.7
150°	1069.1	1063.2	1029.9	997.4	1003.4	1018.8	980.3	892.4	887.2	920.6	1027.3
152.5°	1067.4	1070.0	1055.5	1029.0	1022.2	1032.4	1018.8	970.9	895.8	889.8	917.1
155°	1072.6	1073.4	1069.1	1046.9	1034.1	1037.5	1030.7	1014.5	976.1	904.3	889.8
157.5°	1083.7	1084.5	1077.7	1058.9	1044.4	1041.0	1041.0	1039.2	1024.7	1002.5	929.9
160°	1094.8	1095.6	1093.0	1078.5	1063.2	1053.8	1048.6	1052.9	1051.2	1043.5	1023.9
162.5°	1105.9	1105.0	1107.6	1098.2	1081.9	1072.6	1059.7	1057.2	1057.2	1057.2	1056.3
165°	1115.3	1114.4	1117.8	1114.4	1103.3	1088.8	1075.1	1063.2	1056.3	1049.5	1053.8
167.5°	1122.9	1122.1	1124.6	1125.5	1120.4	1108.4	1090.5	1077.7	1062.3	1046.1	1037.5
170°	1129.8	1128.9	1130.6	1132.3	1128.9	1122.9	1105.0	1093.0	1076.8	1055.5	1035.0
172.5°	1136.6	1134.0	1134.0	1134.0	1131.5	1126.4	1113.5	1103.3	1090.5	1072.6	1051.2
175°	1140.9	1138.3	1137.5	1134.9	1131.5	1126.4	1114.4	1103.3	1090.5	1076.8	1059.7
177.5°	1142.6	1140.0	1138.3	1135.7	1131.5	1125.5	1112.7	1099.9	1084.5	1067.4	1052.1
180°	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2	2033.2
2.5°	2020.4	2023.8	2025.6	2029.0	2028.1	2029.0	2034.1	2029.0
5°	2030.7	2035.8	2039.2	2043.5	2042.6	2042.6	2046.0	2041.8
7.5°	2049.5	2058.0	2064.8	2070.8	2070.0	2071.7	2076.8	2070.8
10°	2075.1	2087.9	2097.3	2106.7	2110.1	2112.7	2119.5	2116.9
12.5°	2107.5	2126.3	2140.0	2151.9	2157.1	2163.0	2170.7	2166.5
15°	2146.0	2169.9	2187.8	2204.0	2212.6	2222.0	2232.2	2228.8
17.5°	2191.2	2223.7	2245.9	2269.8	2282.6	2294.5	2307.4	2302.2
20°	2245.9	2288.6	2320.2	2350.1	2368.0	2385.9	2397.0	2391.9
22.5°	2306.5	2363.7	2407.3	2448.3	2474.7	2494.4	2509.7	2508.0
25°	2381.6	2452.5	2508.0	2555.0	2591.7	2616.5	2635.3	2633.6
27.5°	2467.9	2551.6	2619.0	2676.3	2721.5	2754.0	2768.5	2770.2
30°	2561.0	2660.0	2740.3	2808.6	2860.7	2896.6	2911.9	2914.5
32.5°	2658.3	2773.6	2864.1	2941.0	3001.6	3043.5	3058.8	3067.4
35°	2754.8	2882.9	2990.5	3081.0	3146.8	3192.9	3209.1	3221.9
37.5°	2850.5	2997.3	3115.2	3213.4	3286.0	3338.1	3358.6	3362.0
40°	2943.5	3099.8	3235.6	3350.0	3432.0	3486.7	3512.3	3522.5
42.5°	3031.5	3206.6	3354.3	3482.4	3574.6	3631.0	3664.3	3674.5
45°	3115.2	3306.5	3463.6	3596.8	3692.5	3755.6	3793.2	3803.5
47.5°	3185.2	3387.6	3559.2	3706.1	3809.4	3880.3	3917.9	3933.3
50°	3244.1	3459.3	3642.1	3795.8	3900.8	3974.3	4016.1	4029.8
52.5°	3287.7	3504.6	3693.3	3856.4	3969.1	4052.8	4095.5	4115.2
55°	3308.2	3535.3	3730.0	3897.4	4009.3	4095.5	4140.8	4163.0
57.5°	3308.2	3536.2	3721.5	3876.0	3985.4	4076.7	4136.5	4158.7
60°	3268.0	3484.1	3683.1	3855.6	3974.3	4063.9	4128.0	4139.1
62.5°	3207.4	3428.6	3627.6	3672.0	3638.7	3601.9	3596.0	3608.8
65°	3122.9	3113.5	3091.3	3054.6	3089.6	3158.7	3191.2	3212.5
67.5°	2610.5	2631.9	2759.1	2859.0	2931.6	2991.4	3034.1	3056.3
70°	2352.6	2495.2	2619.0	2723.2	2781.3	2829.1	2853.0	2872.7
72.5°	2222.8	2337.2	2426.1	2503.8	2548.2	2591.7	2603.7	2616.5
75°	2039.2	2137.4	2236.5	2331.3	2402.1	2455.1	2483.3	2496.1
77.5°	1891.5	1999.9	2086.2	2173.3	2234.8	2278.3	2303.1	2324.4
80°	1710.4	1848.8	1976.9	2093.0	2177.6	2239.0	2280.9	2298.0
82.5°	1673.7	1814.6	1938.5	2034.9	2105.8	2160.5	2188.7	2201.5
85°	1438.9	1533.7	1627.6	1719.8	1794.1	1847.1	1872.7	1880.4
87.5°	1113.5	1211.7	1327.9	1404.7	1482.4	1543.1	1575.5	1581.5
90°	351.8	395.4	471.4	497.8	539.7	588.4	617.4	620.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	8.5	7.7	6.8	6.8	6.0	5.1	4.3	4.3
97.5°	78.6	58.9	47.0	37.6	29.9	26.5	25.6	25.6
100°	269.0	254.5	237.4	233.1	219.5	210.1	200.7	201.5
102.5°	409.0	379.2	386.8	403.9	413.3	416.7	412.5	415.0
105°	635.3	622.5	607.2	602.9	591.8	572.1	555.9	556.8
107.5°	841.1	853.1	860.8	862.5	858.2	852.2	841.1	842.8
110°	1004.2	1056.3	1093.9	1125.5	1134.9	1132.3	1136.6	1140.0





TEST NUMBER: P236527

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1003.4	1184.4	1257.9	1312.5	1345.8	1364.6	1377.4	1386.0
115°	979.5	1041.0	1154.5	1284.3	1432.1	1510.6	1535.4	1548.2
117.5°	1212.6	1173.3	1173.3	1157.1	1203.2	1263.0	1291.2	1302.3
120°	1601.1	1465.4	1412.4	1386.8	1386.0	1393.6	1385.1	1385.1
122.5°	1900.0	1852.2	1790.7	1730.9	1668.6	1652.4	1636.2	1638.7
125°	1953.0	2069.1	2090.5	2080.2	2058.9	2031.5	2008.5	2008.5
127.5°	1924.8	2070.0	2168.2	2245.9	2302.2	2289.4	2283.4	2284.3
130°	1908.6	2023.0	2124.6	2226.2	2298.0	2340.7	2361.2	2368.8
132.5°	1887.2	1980.3	2075.1	2155.4	2210.9	2257.8	2282.6	2292.0
135°	1842.8	1946.1	2016.2	2082.8	2140.0	2184.4	2201.5	2213.4
137.5°	1783.9	1870.1	1952.1	2029.8	2079.4	2107.5	2115.2	2120.3
140°	1729.2	1801.8	1869.3	1929.1	1982.9	2029.8	2047.8	2054.6
142.5°	1623.3	1736.1	1790.7	1843.7	1887.2	1931.6	1955.5	1961.5
145°	1391.1	1567.8	1672.9	1752.3	1801.0	1841.1	1864.2	1882.9
147.5°	1199.8	1323.6	1426.9	1545.6	1631.0	1704.5	1742.0	1750.6
150°	1068.3	1142.6	1216.0	1285.2	1354.4	1417.5	1451.7	1457.7
152.5°	966.7	1060.6	1085.4	1111.0	1156.2	1194.7	1200.6	1205.8
155°	897.5	918.0	956.4	1019.6	1053.8	1045.2	1030.7	1017.9
157.5°	894.9	881.3	887.2	891.5	879.6	861.6	836.0	818.1
160°	996.6	928.2	897.5	873.6	836.0	798.4	758.3	754.0
162.5°	1051.2	1031.6	1015.3	988.9	919.7	850.5	825.8	822.3
165°	1057.2	1057.2	1055.5	1045.2	1004.2	962.4	947.9	947.0
167.5°	1035.0	1041.0	1044.4	1047.8	1035.0	1014.5	994.0	990.6
170°	1018.8	1015.3	1014.5	1011.9	1024.7	1022.2	996.6	971.8
172.5°	1023.9	1009.4	1000.0	997.4	1020.5	1043.5	1027.3	1017.0
175°	1031.6	1007.7	994.0	1000.8	1028.1	1073.4	1099.0	1107.6
177.5°	1024.7	994.0	978.6	994.0	1027.3	1087.9	1156.2	1184.4
180°	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8	1082.8

(END OF REPORT)