

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: P236532

Luminaire Tested: **SKB4-LD5-36-W-UNV-L835-CD4-U all blades horizontal**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236532
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-LD5-36-W-UNV-L835-CD4-U all blades horizontal
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES HORIZONTAL
Light Source: (952) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

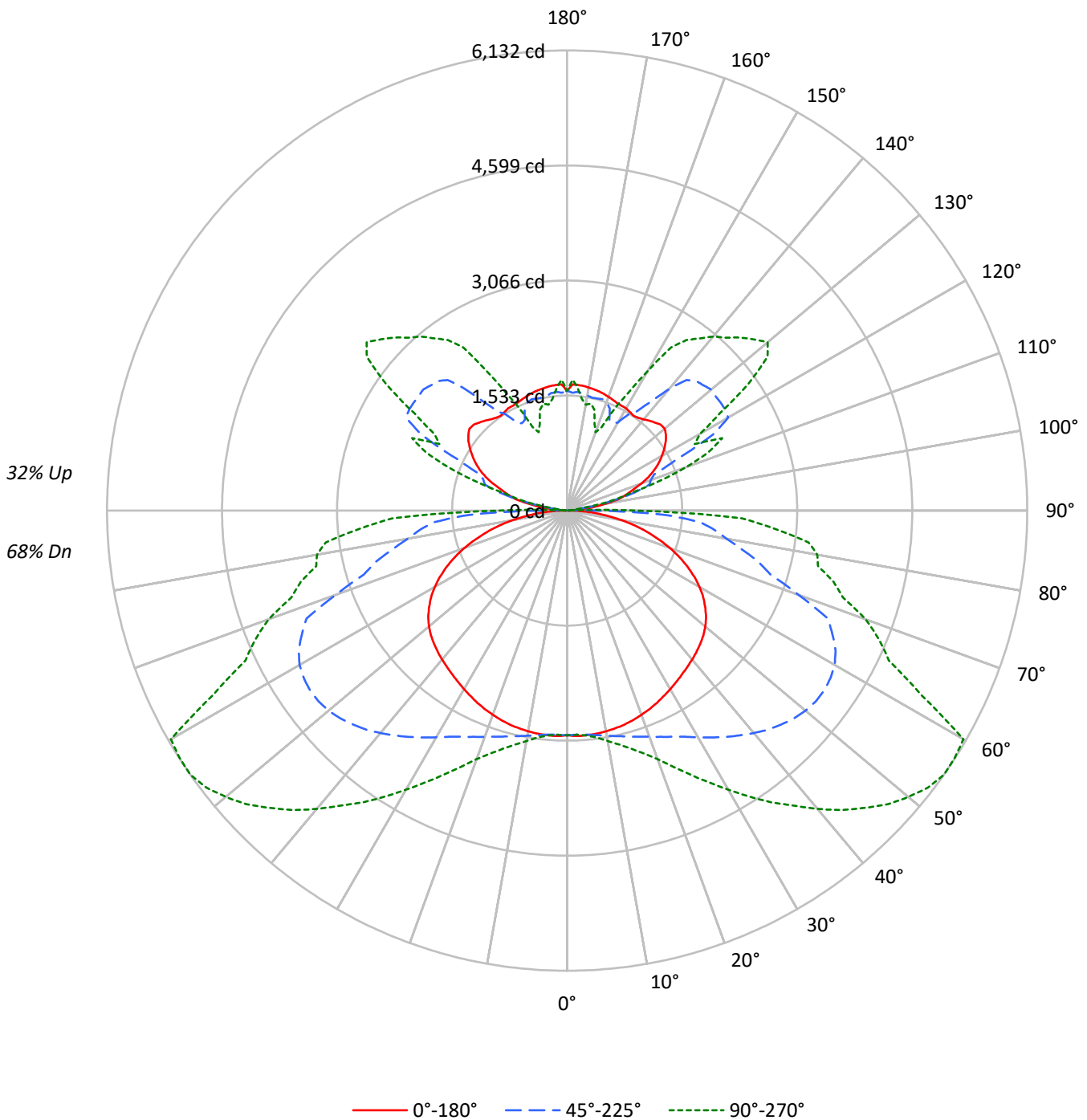
Lumens per Lamp: N/A
Luminaire Lumens: 29065.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 2.46 / 2.11
Luminous Opening: Rectangular (W 1.88' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 333.5
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-LD5-36-W-UNV-L835-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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73
1	99	93	87	83	93	87	83	78	77	74	70	68	65	62	59	57	55
2	88	78	71	64	82	74	67	61	65	59	55	57	53	49	50	46	43
3	79	67	58	51	74	63	55	48	56	49	44	49	43	39	42	38	34
4	71	58	49	42	67	55	46	40	48	41	36	42	37	32	37	32	28
5	65	51	42	35	61	48	40	33	43	35	30	37	31	27	32	27	23
6	60	45	36	29	56	43	34	28	38	31	25	33	27	22	29	24	20
7	55	41	32	25	51	38	30	24	34	27	22	30	24	19	26	21	17
8	51	37	28	22	47	35	26	21	31	24	19	27	21	17	23	19	15
9	47	33	25	19	44	31	24	18	28	21	17	25	19	15	21	17	13
10	44	30	22	17	41	29	21	16	26	19	15	23	17	13	20	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4299	4299	4299
5°	4330	4317	4333
10°	4352	4440	4545
15°	4385	4630	4878
20°	4423	4899	5381
25°	4478	5265	6143
30°	4553	5781	7115
35°	4672	6449	8315
40°	4855	7249	9721
45°	5091	8185	11372
50°	5364	9260	13254
55°	5618	10459	15344
60°	5853	11814	17501
65°	6010	13251	16071
70°	6107	13761	17757
75°	6145	14627	20389
80°	6082	17789	27977
85°	5986	29290	45612



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.7	1.0
10°-20°	888.6	3.1
20°-30°	1557.0	5.4
30°-40°	2330.2	8.0
40°-50°	3140.3	10.8
50°-60°	3749.1	12.9
60°-70°	3544.8	12.2
70°-80°	2707.7	9.3
80°-90°	1689.4	5.8
90°-100°	180.4	0.6
100°-110°	948.6	3.3
110°-120°	1665.6	5.7
120°-130°	2078.2	7.2
130°-140°	1809.1	6.2
140°-150°	1208.2	4.2
150°-160°	695.1	2.4
160°-170°	433.0	1.5
170°-180°	151.1	0.5
0°-30°	2734.2	9.4
0°-40°	5064.4	17.4
0°-60°	11953.8	41.1
0°-90°	19895.7	68.5
90°-120°	2794.6	9.6
90°-150°	7890.2	27.1
90°-180°	9169.0	31.5
0°-180°	29065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2995	2995	2995	2995	2995	
5°	3005	3020	2996	3007	3008	286
15°	2951	3016	3116	3235	3283	834
25°	2828	2987	3325	3729	3879	1306
35°	2667	2953	3681	4472	4746	1674
45°	2508	2943	4033	5200	5603	1938
55°	2245	2853	4180	5618	6132	2004
65°	1770	2472	3902	4527	4732	1745
75°	1108	1813	2638	3364	3677	1164
85°	364	792	1779	2466	2770	372
90°	15	96	367	714	913	33
95°	190	101	18	10	6	222
105°	811	923	928	891	820	847
115°	1284	1582	1600	1796	2281	1260
125°	1605	1682	2501	3072	2959	1428
135°	1658	1372	2438	3019	3260	1282
145°	1542	1452	1610	2523	2774	979
155°	1580	1526	1332	1455	1499	733
165°	1643	1614	1546	1547	1395	464
175°	1681	1663	1586	1469	1632	160
180°	1595	1595	1595	1595	1595	



TEST NUMBER: P236532

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L835-CD4-U all blades horizontal

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	3007.7	3007.7	3015.2	3015.2	3020.2	3020.2	3016.5	3007.7	3001.4	2988.8	2981.3
5°	3005.2	3003.9	3014.0	3014.0	3020.2	3020.2	3016.5	3011.4	3005.2	2996.3	2992.6
7.5°	2998.9	2998.9	3007.7	3010.2	3017.7	3022.8	3024.0	3021.5	3021.5	3017.7	3016.5
10°	2986.3	2988.8	2998.9	3007.7	3026.5	3039.1	3045.4	3047.9	3049.2	3046.7	3049.2
12.5°	2971.2	2973.7	2990.1	3002.6	3014.0	3029.1	3041.6	3054.2	3068.0	3078.1	3090.7
15°	2951.1	2953.6	2969.9	2981.3	3003.9	3029.1	3050.4	3071.8	3097.0	3115.8	3134.7
17.5°	2927.2	2929.7	2944.8	2963.6	2996.3	3029.1	3059.2	3091.9	3128.4	3158.6	3190.1
20°	2895.7	2899.5	2918.4	2943.5	2983.8	3026.5	3068.0	3113.3	3163.6	3207.7	3253.0
22.5°	2864.3	2866.8	2890.7	2922.1	2969.9	3022.8	3075.6	3136.0	3201.4	3263.0	3327.2
25°	2827.8	2830.3	2859.2	2898.2	2954.8	3019.0	3086.9	3159.9	3246.7	3324.7	3410.2
27.5°	2787.5	2791.3	2826.5	2873.1	2938.5	3015.2	3098.2	3190.1	3294.5	3397.6	3510.8
30°	2747.3	2751.1	2791.3	2845.4	2922.1	3012.7	3112.1	3221.5	3356.1	3488.2	3625.3
32.5°	2707.0	2713.3	2758.6	2819.0	2907.0	3011.4	3129.7	3264.3	3430.3	3583.8	3746.1
35°	2666.8	2673.1	2724.6	2792.6	2893.2	3012.7	3149.8	3314.6	3505.8	3680.7	3866.8
37.5°	2627.8	2636.6	2691.9	2768.7	2879.4	3017.7	3180.0	3368.7	3578.8	3776.3	3986.3
40°	2591.3	2600.1	2659.2	2744.8	2868.0	3024.0	3214.0	3422.8	3655.5	3869.3	4103.3
42.5°	2552.3	2562.4	2626.5	2719.6	2855.5	3036.6	3245.4	3476.9	3724.7	3959.9	4206.5
45°	2508.3	2520.9	2587.5	2689.4	2839.1	3046.7	3273.1	3523.4	3782.5	4032.9	4305.8
47.5°	2461.7	2473.1	2543.5	2655.5	2821.5	3050.4	3290.7	3549.8	3825.3	4099.5	4392.6
50°	2402.6	2415.2	2489.4	2611.4	2798.9	3044.1	3290.7	3566.2	3858.0	4147.3	4458.0
52.5°	2333.4	2347.3	2426.5	2558.6	2764.9	3025.3	3279.4	3564.9	3868.1	4176.3	4502.1
55°	2245.4	2264.2	2348.5	2495.7	2720.9	2985.0	3241.6	3542.3	3859.3	4180.0	4519.7
57.5°	2151.0	2166.1	2258.0	2420.2	2659.2	2923.4	3190.1	3498.3	3824.1	4159.9	4513.4
60°	2039.1	2054.2	2154.8	2330.9	2576.2	2834.1	3115.8	3426.6	3770.0	4115.9	4470.6
62.5°	1910.8	1927.1	2035.3	2227.8	2470.5	2729.7	3019.0	3341.0	3692.0	4032.9	4372.5
65°	1769.9	1786.2	1905.7	2109.5	2337.2	2607.7	2907.0	3234.1	3580.0	3902.0	4250.5
67.5°	1617.7	1637.8	1772.4	1974.9	2198.8	2468.0	2772.4	3098.2	3421.5	3759.9	3910.8
70°	1455.4	1479.3	1624.0	1816.4	2040.3	2314.6	2617.7	2923.4	3249.2	3279.4	3239.1
72.5°	1284.3	1318.3	1471.8	1646.6	1868.0	2139.7	2422.7	2733.4	2699.5	2840.4	3060.5
75°	1108.2	1148.5	1303.2	1465.5	1686.9	1938.4	2226.5	2232.8	2430.3	2637.8	2830.3
77.5°	924.6	987.5	1118.3	1279.3	1484.3	1732.1	1801.3	1990.0	2192.5	2381.2	2582.5
80°	735.9	815.1	925.8	1081.8	1274.3	1353.5	1535.9	1737.2	1954.8	2152.3	2330.9
82.5°	547.2	631.5	728.3	859.2	937.1	1094.4	1294.4	1499.4	1733.4	1985.0	2232.8
85°	363.5	430.2	501.9	569.8	700.7	884.3	1149.7	1401.3	1613.9	1778.7	1961.1
87.5°	177.4	221.4	273.0	392.5	562.3	684.3	830.2	983.7	1144.7	1308.2	1485.6
90°	15.1	17.6	20.1	37.7	75.5	115.7	195.0	235.2	317.0	367.3	455.4
92.5°	30.2	26.4	17.6	12.6	11.3	10.1	7.5	6.3	3.8	1.3	0.0
95°	189.9	205.0	172.3	128.3	112.0	90.6	56.6	37.7	25.2	17.6	13.8
97.5°	349.7	392.5	388.7	328.3	298.1	270.5	227.7	232.7	205.0	169.8	138.4
100°	523.3	596.3	581.2	539.6	503.2	493.1	460.4	442.8	396.2	378.6	396.2
102.5°	698.1	756.0	769.8	810.1	699.4	684.3	685.6	685.6	674.2	657.9	631.5
105°	811.4	859.2	910.7	957.3	1020.2	826.4	808.8	878.0	923.3	928.3	933.4
107.5°	913.2	945.9	1035.3	1095.6	1166.1	1211.4	944.7	948.5	1070.5	1148.5	1206.3
110°	1050.4	1062.9	1117.0	1241.6	1303.2	1413.9	1395.0	1110.7	1066.7	1185.0	1390.0



TEST NUMBER: P236532

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L835-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1174.9	1172.4	1153.5	1346.0	1429.0	1520.8	1686.9	1640.3	1325.8	1250.4	1294.4
115°	1284.3	1264.2	1190.0	1368.6	1537.2	1627.7	1766.1	1973.7	1903.2	1600.1	1473.0
117.5°	1376.2	1343.5	1273.0	1364.8	1626.5	1725.9	1846.6	2030.3	2241.6	2191.3	1971.1
120°	1457.9	1422.7	1374.9	1352.3	1618.9	1820.2	1941.0	2089.4	2283.1	2478.1	2494.4
122.5°	1533.4	1496.9	1481.8	1339.7	1558.6	1888.1	2007.6	2149.8	2310.8	2498.2	2683.1
125°	1605.1	1563.6	1561.1	1353.5	1505.7	1857.9	2078.1	2210.2	2343.5	2500.7	2678.1
127.5°	1660.4	1618.9	1615.2	1396.3	1464.2	1733.4	2098.2	2237.8	2377.5	2497.0	2668.0
130°	1698.2	1661.7	1640.3	1485.6	1396.3	1625.2	1980.0	2252.9	2367.4	2507.0	2644.1
132.5°	1693.1	1664.2	1627.7	1544.7	1357.3	1535.9	1783.7	2166.1	2352.3	2468.0	2631.6
135°	1657.9	1640.3	1598.8	1573.6	1346.0	1397.5	1620.2	1929.6	2281.9	2437.8	2569.9
137.5°	1624.0	1615.2	1568.6	1567.4	1397.5	1337.2	1522.1	1719.6	2057.9	2359.8	2508.3
140°	1585.0	1583.7	1540.9	1542.2	1456.7	1296.9	1376.2	1566.1	1800.1	2114.6	2393.8
142.5°	1557.3	1559.8	1517.0	1510.8	1490.6	1317.0	1319.5	1486.9	1606.4	1821.5	2120.8
145°	1542.2	1543.5	1503.2	1488.1	1491.9	1411.4	1284.3	1342.2	1519.6	1610.1	1816.4
147.5°	1556.0	1548.5	1495.7	1466.7	1485.6	1459.2	1328.4	1294.4	1356.0	1519.6	1596.3
150°	1574.9	1566.1	1517.0	1469.2	1478.0	1500.7	1444.1	1314.5	1307.0	1356.0	1513.3
152.5°	1572.4	1576.2	1554.8	1515.8	1505.7	1520.8	1500.7	1430.2	1319.5	1310.7	1351.0
155°	1579.9	1581.2	1574.9	1542.2	1523.3	1528.4	1518.3	1494.4	1437.8	1332.1	1310.7
157.5°	1596.3	1597.5	1587.5	1559.8	1538.4	1533.4	1533.4	1530.9	1509.5	1476.8	1369.9
160°	1612.6	1613.9	1610.1	1588.7	1566.1	1552.3	1544.7	1551.0	1548.5	1537.2	1508.2
162.5°	1629.0	1627.7	1631.5	1617.7	1593.8	1579.9	1561.1	1557.3	1557.3	1557.3	1556.0
165°	1642.8	1641.6	1646.6	1641.6	1625.2	1603.8	1583.7	1566.1	1556.0	1546.0	1552.3
167.5°	1654.2	1652.9	1656.7	1657.9	1650.4	1632.8	1606.4	1587.5	1564.8	1540.9	1528.4
170°	1664.2	1663.0	1665.5	1668.0	1663.0	1654.2	1627.7	1610.1	1586.2	1554.8	1524.6
172.5°	1674.3	1670.5	1670.5	1670.5	1666.7	1659.2	1640.3	1625.2	1606.4	1579.9	1548.5
175°	1680.6	1676.8	1675.5	1671.8	1666.7	1659.2	1641.6	1625.2	1606.4	1586.2	1561.1
177.5°	1683.1	1679.3	1676.8	1673.0	1666.7	1657.9	1639.1	1620.2	1597.5	1572.4	1549.7
180°	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0



TEST NUMBER: P236532

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L835-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1	2995.1
2.5°	2976.2	2981.3	2983.8	2988.8	2987.5	2988.8	2996.3	2988.8
5°	2991.3	2998.9	3003.9	3010.2	3008.9	3008.9	3014.0	3007.7
7.5°	3019.0	3031.6	3041.6	3050.4	3049.2	3051.7	3059.2	3050.4
10°	3056.7	3075.6	3089.4	3103.3	3108.3	3112.1	3122.1	3118.4
12.5°	3104.5	3132.2	3152.3	3169.9	3177.5	3186.3	3197.6	3191.3
15°	3161.1	3196.4	3222.8	3246.7	3259.3	3273.1	3288.2	3283.2
17.5°	3227.8	3275.6	3308.3	3343.5	3362.4	3380.0	3398.9	3391.3
20°	3308.3	3371.2	3417.7	3461.8	3488.2	3514.6	3531.0	3523.4
22.5°	3397.6	3481.9	3546.1	3606.4	3645.4	3674.4	3697.0	3694.5
25°	3508.3	3612.7	3694.5	3763.7	3817.8	3854.2	3881.9	3879.4
27.5°	3635.4	3758.6	3858.0	3942.3	4009.0	4056.8	4078.2	4080.7
30°	3772.5	3918.4	4036.6	4137.3	4214.0	4266.8	4289.5	4293.3
32.5°	3915.9	4085.7	4219.0	4332.2	4421.6	4483.2	4505.8	4518.4
35°	4058.0	4246.7	4405.2	4538.5	4635.4	4703.3	4727.2	4746.1
37.5°	4198.9	4415.3	4588.9	4733.5	4840.4	4917.2	4947.4	4952.4
40°	4336.0	4566.2	4766.2	4934.8	5055.5	5136.1	5173.8	5188.9
42.5°	4465.6	4723.5	4941.1	5129.8	5265.6	5348.6	5397.7	5412.8
45°	4588.9	4870.6	5102.1	5298.3	5439.2	5532.3	5587.6	5602.7
47.5°	4692.0	4990.1	5243.0	5459.3	5611.5	5716.0	5771.3	5793.9
50°	4778.8	5095.8	5365.0	5591.4	5746.1	5854.3	5916.0	5936.1
52.5°	4843.0	5162.5	5440.5	5680.7	5846.8	5970.1	6032.9	6061.9
55°	4873.2	5207.8	5494.6	5741.1	5905.9	6032.9	6099.6	6132.3
57.5°	4873.2	5209.0	5482.0	5709.7	5870.7	6005.3	6093.3	6126.0
60°	4814.0	5132.3	5425.4	5679.5	5854.3	5986.4	6080.7	6097.1
62.5°	4724.7	5050.5	5343.6	5409.0	5360.0	5305.9	5297.1	5315.9
65°	4600.2	4586.3	4553.6	4499.6	4551.1	4653.0	4700.8	4732.3
67.5°	3845.4	3876.9	4064.3	4211.5	4318.4	4406.5	4469.4	4502.1
70°	3465.5	3675.6	3858.0	4011.5	4097.0	4167.5	4202.7	4231.6
72.5°	3274.3	3442.9	3573.7	3688.2	3753.6	3817.8	3835.4	3854.2
75°	3003.9	3148.6	3294.5	3434.1	3538.5	3616.5	3658.0	3676.9
77.5°	2786.3	2946.0	3073.1	3201.4	3292.0	3356.1	3392.6	3424.0
80°	2519.6	2723.4	2912.1	3083.1	3207.7	3298.2	3359.9	3385.0
82.5°	2465.5	2673.1	2855.5	2997.6	3102.0	3182.5	3224.0	3242.9
85°	2119.6	2259.2	2397.6	2533.4	2642.9	2720.9	2758.6	2769.9
87.5°	1640.3	1785.0	1956.1	2069.3	2183.7	2273.0	2320.8	2329.7
90°	518.3	582.4	694.4	733.4	795.0	866.7	909.5	913.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	12.6	11.3	10.1	10.1	8.8	7.5	6.3	6.3
97.5°	115.7	86.8	69.2	55.3	44.0	39.0	37.7	37.7
100°	396.2	374.9	349.7	343.4	323.3	309.4	295.6	296.9
102.5°	602.5	558.5	569.8	595.0	608.8	613.9	607.6	611.3
105°	935.9	917.0	894.4	888.1	871.7	842.8	818.9	820.2
107.5°	1239.0	1256.7	1268.0	1270.5	1264.2	1255.4	1239.0	1241.6
110°	1479.3	1556.0	1611.4	1657.9	1671.8	1668.0	1674.3	1679.3



TEST NUMBER: P236532

CATALOG NUMBER: SKB4-LD5-36-W-UNV-L835-CD4-U all blades horizontal

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1478.0	1744.7	1852.9	1933.4	1982.5	2010.1	2029.0	2041.6
115°	1442.8	1533.4	1700.7	1891.9	2109.5	2225.2	2261.7	2280.6
117.5°	1786.2	1728.4	1728.4	1704.5	1772.4	1860.5	1902.0	1918.3
120°	2358.6	2158.6	2080.6	2042.8	2041.6	2052.9	2040.3	2040.3
122.5°	2798.9	2728.4	2637.8	2549.8	2458.0	2434.1	2410.2	2413.9
125°	2876.8	3047.9	3079.4	3064.3	3032.8	2992.6	2958.6	2958.6
127.5°	2835.3	3049.2	3193.8	3308.3	3391.3	3372.5	3363.7	3364.9
130°	2811.4	2980.0	3129.7	3279.4	3385.0	3447.9	3478.1	3489.4
132.5°	2780.0	2917.1	3056.7	3175.0	3256.7	3325.9	3362.4	3376.2
135°	2714.6	2866.8	2969.9	3068.0	3152.3	3217.7	3242.9	3260.5
137.5°	2627.8	2754.8	2875.6	2990.1	3063.0	3104.5	3115.8	3123.4
140°	2547.3	2654.2	2753.6	2841.6	2920.9	2990.1	3016.5	3026.5
142.5°	2391.3	2557.3	2637.8	2715.8	2780.0	2845.4	2880.6	2889.4
145°	2049.1	2309.5	2464.3	2581.2	2652.9	2712.1	2746.0	2773.7
147.5°	1767.4	1949.8	2102.0	2276.8	2402.6	2510.8	2566.1	2578.7
150°	1573.6	1683.1	1791.3	1893.2	1995.0	2088.1	2138.5	2147.3
152.5°	1424.0	1562.3	1598.8	1636.5	1703.2	1759.8	1768.6	1776.2
155°	1322.1	1352.3	1408.9	1501.9	1552.3	1539.7	1518.3	1499.4
157.5°	1318.3	1298.2	1307.0	1313.3	1295.6	1269.2	1231.5	1205.1
160°	1468.0	1367.4	1322.1	1286.8	1231.5	1176.1	1117.0	1110.7
162.5°	1548.5	1519.6	1495.7	1456.7	1354.8	1252.9	1216.4	1211.4
165°	1557.3	1557.3	1554.8	1539.7	1479.3	1417.7	1396.3	1395.0
167.5°	1524.6	1533.4	1538.4	1543.5	1524.6	1494.4	1464.2	1459.2
170°	1500.7	1495.7	1494.4	1490.6	1509.5	1505.7	1468.0	1431.5
172.5°	1508.2	1486.9	1473.0	1469.2	1503.2	1537.2	1513.3	1498.2
175°	1519.6	1484.3	1464.2	1474.3	1514.5	1581.2	1618.9	1631.5
177.5°	1509.5	1464.2	1441.6	1464.2	1513.3	1602.6	1703.2	1744.7
180°	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0	1595.0

(END OF REPORT)