

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: P236454

Luminaire Tested: **SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P236454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24074)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees  
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE  
2 BLADES WITH WIDE DISTRIBUTION LENS, ALL BLADES TILTED OUT 20 DEGREES  
Light Source: (476) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

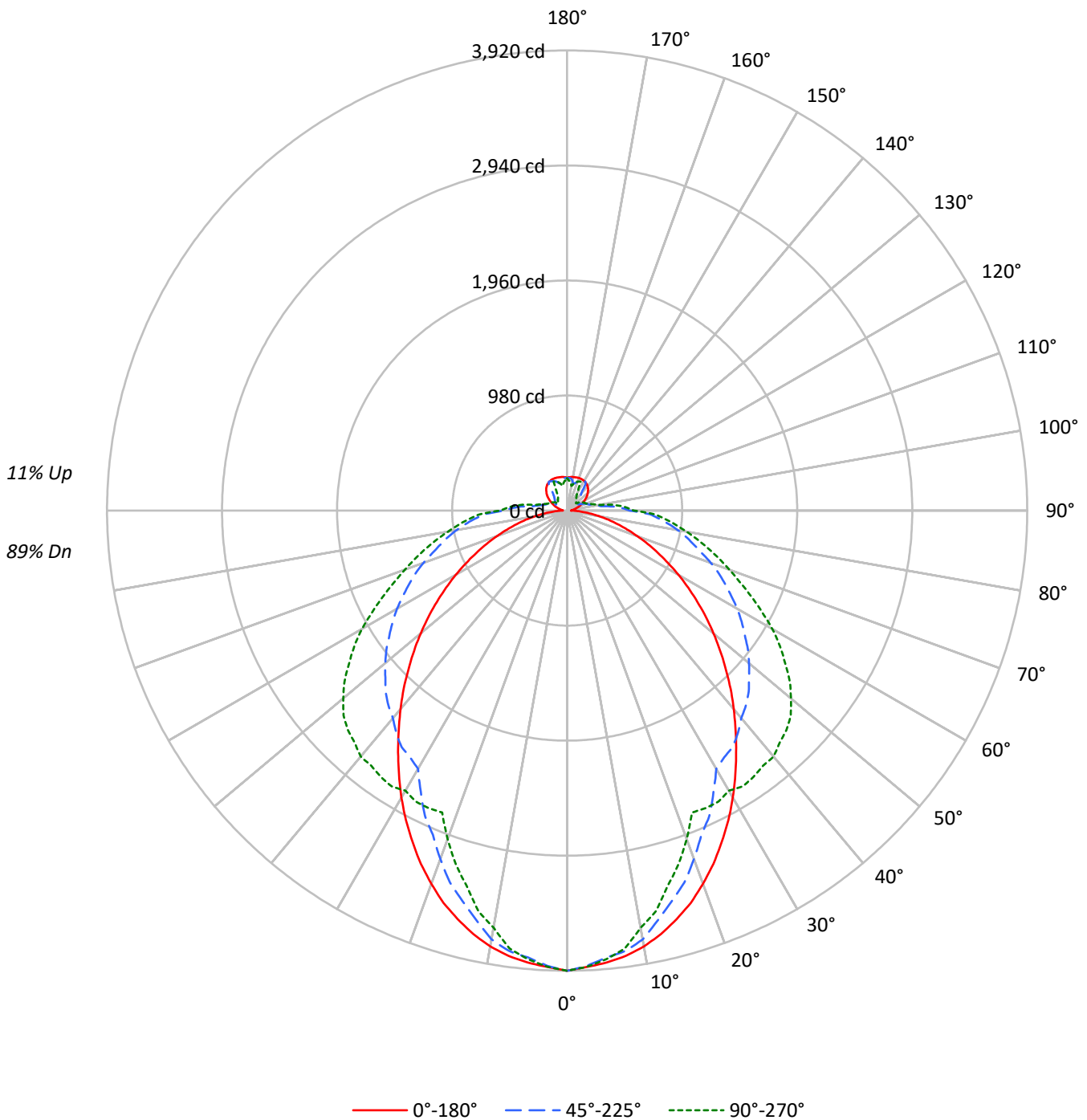
Lumens per Lamp: N/A  
Luminaire Lumens: 12133.0 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.03 / 1.25  
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 2' x H: 0.21')  
CIE Type: Semi-Direct

Input Watts (W): 104.9  
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: P236454

CATALOG NUMBER: SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees

### Luminous Intensity Polar Plot





TEST NUMBER: P236454

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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   | 104 | 99  | 94  | 89  | 100 | 95  | 91  | 86  | 89  | 85  | 82  | 83 | 80 | 77 | 78 | 75 | 73 | 70 |
| 2   | 94  | 85  | 77  | 71  | 90  | 82  | 75  | 69  | 77  | 71  | 66  | 72 | 67 | 63 | 67 | 63 | 60 | 57 |
| 3   | 85  | 74  | 65  | 58  | 82  | 72  | 64  | 57  | 67  | 60  | 55  | 63 | 57 | 52 | 59 | 54 | 50 | 47 |
| 4   | 78  | 65  | 56  | 49  | 75  | 63  | 55  | 48  | 59  | 52  | 46  | 56 | 50 | 45 | 52 | 47 | 43 | 40 |
| 5   | 72  | 58  | 49  | 42  | 69  | 57  | 48  | 41  | 53  | 46  | 40  | 50 | 44 | 39 | 47 | 42 | 37 | 35 |
| 6   | 66  | 52  | 43  | 37  | 63  | 51  | 42  | 36  | 48  | 40  | 35  | 45 | 39 | 34 | 43 | 37 | 33 | 30 |
| 7   | 61  | 48  | 39  | 32  | 59  | 46  | 38  | 32  | 44  | 36  | 31  | 41 | 35 | 30 | 39 | 33 | 29 | 27 |
| 8   | 57  | 43  | 35  | 29  | 55  | 42  | 34  | 28  | 40  | 33  | 28  | 38 | 31 | 27 | 36 | 30 | 26 | 24 |
| 9   | 53  | 40  | 31  | 26  | 51  | 39  | 31  | 26  | 37  | 30  | 25  | 35 | 29 | 24 | 33 | 28 | 23 | 21 |
| 10  | 50  | 37  | 29  | 23  | 48  | 36  | 28  | 23  | 34  | 27  | 23  | 32 | 26 | 22 | 31 | 25 | 21 | 19 |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 16880 | 16880 | 16880 |
| 5°  | 16555 | 16244 | 16342 |
| 10° | 16184 | 15689 | 15323 |
| 15° | 15623 | 14600 | 14114 |
| 20° | 14935 | 13529 | 12858 |
| 25° | 14116 | 12510 | 12324 |
| 30° | 13240 | 11374 | 12497 |
| 35° | 12299 | 11398 | 13029 |
| 40° | 11407 | 11179 | 13488 |
| 45° | 10543 | 11175 | 13792 |
| 50° | 9702  | 11029 | 13912 |
| 55° | 8851  | 10885 | 13747 |
| 60° | 7995  | 10821 | 13489 |
| 65° | 7108  | 10734 | 12983 |
| 70° | 6217  | 10738 | 12693 |
| 75° | 5323  | 10827 | 12746 |
| 80° | 4344  | 11370 | 13121 |
| 85° | 3141  | 12173 | 14346 |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.9   | 3.0       |
| 10°-20°   | 970.9   | 8.0       |
| 20°-30°   | 1344.9  | 11.1      |
| 30°-40°   | 1601.2  | 13.2      |
| 40°-50°   | 1719.6  | 14.2      |
| 50°-60°   | 1638.4  | 13.5      |
| 60°-70°   | 1383.2  | 11.4      |
| 70°-80°   | 1058.1  | 8.7       |
| 80°-90°   | 724.3   | 6.0       |
| 90°-100°  | 359.2   | 3.0       |
| 100°-110° | 188.8   | 1.6       |
| 110°-120° | 147.9   | 1.2       |
| 120°-130° | 134.4   | 1.1       |
| 130°-140° | 138.2   | 1.1       |
| 140°-150° | 138.6   | 1.1       |
| 150°-160° | 123.5   | 1.0       |
| 160°-170° | 73.4    | 0.6       |
| 170°-180° | 25.6    | 0.2       |
| 0°-30°    | 2678.6  | 22.1      |
| 0°-40°    | 4279.9  | 35.3      |
| 0°-60°    | 7637.9  | 63.0      |
| 0°-90°    | 10803.3 | 89.0      |
| 90°-120°  | 695.9   | 5.7       |
| 90°-150°  | 1107.1  | 9.1       |
| 90°-180°  | 1330.0  | 11.0      |
| 0°-180°   | 12133.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|------|------|-------|------|-------|------|------|
| 0°   | 3920 | 3920  | 3920 | 3920  | 3920 |      |
| 5°   | 3865 | 3872  | 3821 | 3841  | 3836 | 366  |
| 15°  | 3603 | 3585  | 3443 | 3367  | 3308 | 1013 |
| 25°  | 3116 | 3049  | 2868 | 2739  | 2796 | 1433 |
| 35°  | 2511 | 2464  | 2459 | 2673  | 2768 | 1571 |
| 45°  | 1912 | 1935  | 2187 | 2503  | 2642 | 1477 |
| 55°  | 1354 | 1491  | 1847 | 2170  | 2267 | 1213 |
| 65°  | 854  | 1113  | 1486 | 1687  | 1730 | 849  |
| 75°  | 444  | 813   | 1116 | 1222  | 1243 | 474  |
| 85°  | 139  | 560   | 786  | 832   | 844  | 143  |
| 90°  | 35   | 358   | 531  | 562   | 569  | 26   |
| 95°  | 45   | 225   | 392  | 444   | 458  | 40   |
| 105° | 83   | 120   | 196  | 210   | 215  | 89   |
| 115° | 139  | 139   | 134  | 161   | 159  | 138  |
| 125° | 202  | 217   | 123  | 110   | 120  | 180  |
| 135° | 252  | 270   | 153  | 127   | 110  | 194  |
| 145° | 284  | 261   | 271  | 160   | 137  | 177  |
| 155° | 295  | 243   | 276  | 282   | 274  | 136  |
| 165° | 292  | 277   | 240  | 249   | 242  | 83   |
| 175° | 286  | 284   | 277  | 268   | 254  | 27   |
| 180° | 276  | 276   | 276  | 276   | 276  |      |



TEST NUMBER: P236454

CATALOG NUMBER: SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 |
| 2.5°   | 3890.3 | 3902.9 | 3915.4 | 3921.7 | 3916.7 | 3909.2 | 3910.4 | 3911.7 | 3886.6 | 3881.5 | 3871.5 |
| 5°     | 3865.2 | 3877.8 | 3885.3 | 3885.3 | 3877.8 | 3865.2 | 3858.9 | 3853.9 | 3825.0 | 3821.3 | 3813.7 |
| 7.5°   | 3826.3 | 3836.3 | 3838.9 | 3833.8 | 3818.8 | 3799.9 | 3802.4 | 3810.0 | 3788.6 | 3784.9 | 3774.8 |
| 10°    | 3769.8 | 3777.3 | 3774.8 | 3761.0 | 3744.7 | 3744.7 | 3749.7 | 3749.7 | 3723.4 | 3709.6 | 3681.9 |
| 12.5°  | 3694.5 | 3699.5 | 3693.2 | 3676.9 | 3679.4 | 3673.1 | 3673.1 | 3655.6 | 3605.4 | 3572.7 | 3531.3 |
| 15°    | 3602.8 | 3606.6 | 3592.8 | 3590.3 | 3591.5 | 3579.0 | 3556.4 | 3513.7 | 3457.2 | 3443.4 | 3418.3 |
| 17.5°  | 3503.7 | 3501.2 | 3487.4 | 3491.1 | 3488.6 | 3454.7 | 3413.3 | 3373.1 | 3345.5 | 3321.6 | 3284.0 |
| 20°    | 3383.2 | 3381.9 | 3371.9 | 3379.4 | 3360.6 | 3309.1 | 3280.2 | 3246.3 | 3213.7 | 3158.5 | 3091.9 |
| 22.5°  | 3256.4 | 3252.6 | 3248.8 | 3250.1 | 3222.5 | 3164.7 | 3150.9 | 3109.5 | 3043.0 | 2989.0 | 2971.4 |
| 25°    | 3115.8 | 3115.8 | 3115.8 | 3108.2 | 3070.6 | 3027.9 | 3014.1 | 2938.8 | 2894.8 | 2868.5 | 2825.8 |
| 27.5°  | 2972.7 | 2972.7 | 2975.2 | 2960.1 | 2922.4 | 2892.3 | 2848.4 | 2794.4 | 2774.3 | 2701.5 | 2623.7 |
| 30°    | 2823.3 | 2825.8 | 2828.3 | 2804.4 | 2778.1 | 2742.9 | 2696.5 | 2668.9 | 2606.1 | 2540.8 | 2574.7 |
| 32.5°  | 2666.4 | 2675.1 | 2675.1 | 2653.8 | 2633.7 | 2584.8 | 2568.4 | 2519.5 | 2456.7 | 2490.6 | 2562.2 |
| 35°    | 2510.7 | 2529.5 | 2519.5 | 2504.4 | 2483.1 | 2445.4 | 2431.6 | 2360.1 | 2391.4 | 2459.2 | 2504.4 |
| 37.5°  | 2357.5 | 2377.6 | 2365.1 | 2360.1 | 2329.9 | 2328.7 | 2273.4 | 2277.2 | 2342.5 | 2390.2 | 2432.9 |
| 40°    | 2206.9 | 2223.2 | 2216.9 | 2211.9 | 2194.3 | 2191.8 | 2157.9 | 2211.9 | 2265.9 | 2308.6 | 2391.4 |
| 42.5°  | 2061.3 | 2075.1 | 2070.1 | 2066.3 | 2068.8 | 2046.2 | 2075.1 | 2136.6 | 2179.3 | 2253.3 | 2338.7 |
| 45°    | 1911.9 | 1925.7 | 1925.7 | 1927.0 | 1939.5 | 1930.7 | 1989.7 | 2038.7 | 2101.5 | 2186.8 | 2258.4 |
| 47.5°  | 1768.8 | 1780.1 | 1783.8 | 1796.4 | 1800.2 | 1832.8 | 1895.6 | 1944.5 | 2029.9 | 2101.5 | 2193.1 |
| 50°    | 1628.2 | 1638.2 | 1645.8 | 1669.6 | 1672.1 | 1737.4 | 1788.9 | 1862.9 | 1938.3 | 2022.4 | 2115.3 |
| 52.5°  | 1491.4 | 1498.9 | 1513.9 | 1539.1 | 1557.9 | 1635.7 | 1692.2 | 1775.1 | 1850.4 | 1940.8 | 2022.4 |
| 55°    | 1354.5 | 1363.3 | 1384.6 | 1404.7 | 1453.7 | 1527.8 | 1600.6 | 1680.9 | 1767.5 | 1846.6 | 1938.3 |
| 57.5°  | 1222.7 | 1234.0 | 1255.3 | 1280.5 | 1352.0 | 1427.3 | 1511.4 | 1594.3 | 1679.7 | 1762.5 | 1844.1 |
| 60°    | 1095.9 | 1107.2 | 1129.8 | 1166.2 | 1252.8 | 1335.7 | 1422.3 | 1510.2 | 1593.0 | 1673.4 | 1739.9 |
| 62.5°  | 971.6  | 982.9  | 1003.0 | 1063.3 | 1152.4 | 1249.1 | 1336.9 | 1426.1 | 1503.9 | 1575.5 | 1645.8 |
| 65°    | 853.6  | 864.9  | 885.0  | 966.6  | 1062.0 | 1163.7 | 1259.1 | 1339.5 | 1416.0 | 1486.3 | 1552.9 |
| 67.5°  | 741.9  | 752.0  | 777.1  | 877.5  | 980.4  | 1084.6 | 1176.3 | 1256.6 | 1333.2 | 1399.7 | 1448.7 |
| 70°    | 635.2  | 645.2  | 681.7  | 793.4  | 903.9  | 1009.3 | 1094.7 | 1180.0 | 1250.3 | 1301.8 | 1345.7 |
| 72.5°  | 536.0  | 543.6  | 598.8  | 718.1  | 833.6  | 931.5  | 1024.4 | 1102.2 | 1159.9 | 1202.6 | 1241.5 |
| 75°    | 444.4  | 450.7  | 529.8  | 654.0  | 764.5  | 862.4  | 949.0  | 1016.8 | 1068.3 | 1116.0 | 1153.7 |
| 77.5°  | 359.0  | 372.8  | 469.5  | 595.0  | 698.0  | 794.6  | 867.4  | 937.7  | 996.7  | 1038.2 | 1067.0 |
| 80°    | 278.7  | 302.5  | 416.8  | 534.8  | 639.0  | 719.3  | 802.2  | 873.7  | 922.7  | 956.6  | 976.7  |
| 82.5°  | 204.6  | 243.5  | 365.3  | 478.3  | 571.2  | 664.1  | 739.4  | 802.2  | 844.8  | 871.2  | 888.8  |
| 85°    | 139.3  | 194.6  | 313.8  | 421.8  | 518.5  | 601.3  | 669.1  | 725.6  | 763.3  | 785.8  | 802.2  |
| 87.5°  | 86.6   | 155.7  | 271.2  | 371.6  | 455.7  | 531.0  | 595.0  | 647.8  | 682.9  | 705.5  | 716.8  |
| 90°    | 35.1   | 101.7  | 193.3  | 264.9  | 326.4  | 389.2  | 441.9  | 485.8  | 515.9  | 531.0  | 539.8  |
| 92.5°  | 36.4   | 74.1   | 138.1  | 203.4  | 261.1  | 323.9  | 379.1  | 425.6  | 455.7  | 473.3  | 482.1  |
| 95°    | 45.2   | 69.0   | 101.7  | 155.7  | 202.1  | 248.6  | 288.7  | 325.1  | 365.3  | 391.7  | 408.0  |
| 97.5°  | 51.5   | 77.8   | 90.4   | 125.5  | 168.2  | 207.1  | 238.5  | 263.6  | 279.9  | 291.2  | 300.0  |
| 100°   | 61.5   | 92.9   | 99.2   | 101.7  | 144.4  | 180.8  | 205.9  | 226.0  | 239.8  | 248.6  | 253.6  |
| 102.5° | 71.6   | 102.9  | 110.5  | 104.2  | 116.7  | 156.9  | 184.5  | 202.1  | 210.9  | 217.2  | 220.9  |
| 105°   | 82.9   | 111.7  | 126.8  | 115.5  | 108.0  | 131.8  | 163.2  | 183.3  | 192.1  | 195.8  | 197.1  |
| 107.5° | 96.7   | 119.3  | 149.4  | 124.3  | 115.5  | 109.2  | 139.3  | 163.2  | 177.0  | 182.0  | 183.3  |
| 110°   | 110.5  | 125.5  | 164.5  | 135.6  | 125.5  | 113.0  | 110.5  | 141.9  | 158.2  | 168.2  | 173.2  |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 40°   | 45°   | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 124.3 | 130.6 | 174.5 | 154.4 | 133.1 | 123.0 | 110.5 | 115.5 | 139.3 | 151.9 | 159.4 |
| 115°   | 139.3 | 138.1 | 179.5 | 185.8 | 144.4 | 133.1 | 120.5 | 109.2 | 115.5 | 134.3 | 145.6 |
| 117.5° | 154.4 | 144.4 | 185.8 | 210.9 | 159.4 | 140.6 | 129.3 | 116.7 | 108.0 | 113.0 | 129.3 |
| 120°   | 170.7 | 155.7 | 190.8 | 226.0 | 183.3 | 150.6 | 138.1 | 126.8 | 115.5 | 108.0 | 108.0 |
| 122.5° | 185.8 | 168.2 | 195.8 | 229.7 | 219.7 | 165.7 | 145.6 | 134.3 | 124.3 | 114.2 | 108.0 |
| 125°   | 202.1 | 182.0 | 200.9 | 233.5 | 247.3 | 185.8 | 156.9 | 141.9 | 131.8 | 123.0 | 114.2 |
| 127.5° | 215.9 | 197.1 | 203.4 | 236.0 | 259.9 | 213.4 | 170.7 | 149.4 | 138.1 | 130.6 | 121.8 |
| 130°   | 228.5 | 212.2 | 207.1 | 237.3 | 261.1 | 262.4 | 190.8 | 160.7 | 145.6 | 136.8 | 129.3 |
| 132.5° | 239.8 | 227.2 | 209.6 | 238.5 | 261.1 | 279.9 | 219.7 | 177.0 | 155.7 | 143.1 | 135.6 |
| 135°   | 252.3 | 241.0 | 212.2 | 239.8 | 261.1 | 278.7 | 272.4 | 200.9 | 169.5 | 153.2 | 141.9 |
| 137.5° | 262.4 | 253.6 | 214.7 | 239.8 | 261.1 | 277.4 | 290.0 | 234.7 | 189.6 | 165.7 | 153.2 |
| 140°   | 271.2 | 264.9 | 223.5 | 239.8 | 259.9 | 276.2 | 286.2 | 283.7 | 218.4 | 185.8 | 167.0 |
| 142.5° | 278.7 | 272.4 | 239.8 | 238.5 | 257.3 | 272.4 | 283.7 | 290.0 | 277.4 | 214.7 | 187.0 |
| 145°   | 283.7 | 278.7 | 253.6 | 236.0 | 253.6 | 268.6 | 279.9 | 287.5 | 292.5 | 271.2 | 217.2 |
| 147.5° | 287.5 | 283.7 | 266.1 | 232.2 | 249.8 | 264.9 | 276.2 | 283.7 | 288.7 | 291.2 | 278.7 |
| 150°   | 291.2 | 288.7 | 274.9 | 237.3 | 246.0 | 259.9 | 271.2 | 279.9 | 285.0 | 287.5 | 290.0 |
| 152.5° | 293.8 | 292.5 | 282.5 | 252.3 | 242.3 | 254.8 | 264.9 | 273.7 | 279.9 | 282.5 | 285.0 |
| 155°   | 295.0 | 293.8 | 286.2 | 268.6 | 237.3 | 248.6 | 258.6 | 267.4 | 272.4 | 276.2 | 279.9 |
| 157.5° | 295.0 | 293.8 | 288.7 | 277.4 | 247.3 | 241.0 | 251.1 | 258.6 | 264.9 | 269.9 | 272.4 |
| 160°   | 295.0 | 295.0 | 290.0 | 282.5 | 266.1 | 237.3 | 242.3 | 249.8 | 256.1 | 259.9 | 263.6 |
| 162.5° | 293.8 | 293.8 | 291.2 | 286.2 | 276.2 | 257.3 | 234.7 | 241.0 | 246.0 | 249.8 | 253.6 |
| 165°   | 292.5 | 292.5 | 291.2 | 287.5 | 281.2 | 272.4 | 257.3 | 237.3 | 234.7 | 239.8 | 242.3 |
| 167.5° | 291.2 | 291.2 | 291.2 | 287.5 | 283.7 | 278.7 | 272.4 | 261.1 | 242.3 | 232.2 | 229.7 |
| 170°   | 290.0 | 290.0 | 290.0 | 288.7 | 286.2 | 282.5 | 278.7 | 273.7 | 267.4 | 259.9 | 251.1 |
| 172.5° | 288.7 | 288.7 | 287.5 | 287.5 | 286.2 | 283.7 | 282.5 | 279.9 | 276.2 | 272.4 | 267.4 |
| 175°   | 286.2 | 287.5 | 286.2 | 286.2 | 285.0 | 283.7 | 282.5 | 281.2 | 278.7 | 277.4 | 274.9 |
| 177.5° | 285.0 | 285.0 | 285.0 | 285.0 | 283.7 | 283.7 | 282.5 | 281.2 | 279.9 | 278.7 | 276.2 |
| 180°   | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 |



TEST NUMBER: P236454

CATALOG NUMBER: SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees

**CANDELA DISTRIBUTION (continued):**

|        | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 | 3920.5 |
| 2.5°   | 3865.2 | 3886.6 | 3895.3 | 3876.5 | 3871.5 | 3875.3 | 3877.8 | 3889.1 |
| 5°     | 3815.0 | 3840.1 | 3848.9 | 3832.6 | 3826.3 | 3826.3 | 3826.3 | 3836.3 |
| 7.5°   | 3771.1 | 3793.7 | 3793.7 | 3769.8 | 3759.8 | 3754.7 | 3752.2 | 3762.3 |
| 10°    | 3658.1 | 3664.4 | 3656.8 | 3620.4 | 3609.1 | 3601.6 | 3597.8 | 3607.9 |
| 12.5°  | 3517.5 | 3537.6 | 3535.1 | 3503.7 | 3497.4 | 3489.9 | 3484.8 | 3494.9 |
| 15°    | 3402.0 | 3412.0 | 3388.2 | 3345.5 | 3322.9 | 3310.4 | 3300.3 | 3307.8 |
| 17.5°  | 3240.1 | 3220.0 | 3187.3 | 3152.2 | 3154.7 | 3153.4 | 3148.4 | 3158.5 |
| 20°    | 3069.3 | 3085.6 | 3069.3 | 3036.7 | 3019.1 | 2996.5 | 2975.2 | 2976.4 |
| 22.5°  | 2957.6 | 2938.8 | 2864.7 | 2794.4 | 2776.8 | 2774.3 | 2778.1 | 2783.1 |
| 25°    | 2740.4 | 2720.3 | 2732.9 | 2744.2 | 2753.0 | 2774.3 | 2794.4 | 2795.7 |
| 27.5°  | 2652.5 | 2689.0 | 2731.6 | 2769.3 | 2793.1 | 2793.1 | 2798.2 | 2794.4 |
| 30°    | 2641.3 | 2707.8 | 2709.0 | 2725.4 | 2749.2 | 2753.0 | 2756.7 | 2755.5 |
| 32.5°  | 2612.4 | 2650.0 | 2657.6 | 2678.9 | 2722.8 | 2759.3 | 2784.4 | 2785.6 |
| 35°    | 2548.4 | 2592.3 | 2650.0 | 2696.5 | 2729.1 | 2750.5 | 2766.8 | 2768.0 |
| 37.5°  | 2510.7 | 2586.0 | 2619.9 | 2656.3 | 2683.9 | 2711.6 | 2732.9 | 2740.4 |
| 40°    | 2474.3 | 2527.0 | 2563.4 | 2626.2 | 2680.2 | 2714.1 | 2727.9 | 2735.4 |
| 42.5°  | 2404.0 | 2470.5 | 2542.1 | 2596.1 | 2640.0 | 2667.6 | 2675.1 | 2680.2 |
| 45°    | 2347.5 | 2421.6 | 2479.3 | 2525.8 | 2577.2 | 2614.9 | 2637.5 | 2642.5 |
| 47.5°  | 2279.7 | 2340.0 | 2405.2 | 2476.8 | 2528.3 | 2558.4 | 2574.7 | 2583.5 |
| 50°    | 2184.3 | 2268.4 | 2342.5 | 2400.2 | 2441.7 | 2463.0 | 2476.8 | 2489.4 |
| 52.5°  | 2109.0 | 2185.6 | 2242.1 | 2298.5 | 2345.0 | 2373.9 | 2385.2 | 2391.4 |
| 55°    | 2016.1 | 2078.9 | 2142.9 | 2196.9 | 2233.3 | 2254.6 | 2263.4 | 2267.2 |
| 57.5°  | 1911.9 | 1977.2 | 2032.4 | 2077.6 | 2111.5 | 2134.1 | 2144.1 | 2150.4 |
| 60°    | 1812.7 | 1868.0 | 1915.7 | 1962.1 | 1992.2 | 2009.8 | 2012.3 | 2018.6 |
| 62.5°  | 1709.8 | 1758.7 | 1798.9 | 1834.1 | 1857.9 | 1869.2 | 1870.5 | 1871.7 |
| 65°    | 1600.6 | 1643.2 | 1673.4 | 1701.0 | 1721.1 | 1732.4 | 1732.4 | 1729.9 |
| 67.5°  | 1492.6 | 1524.0 | 1552.9 | 1580.5 | 1593.0 | 1598.1 | 1591.8 | 1594.3 |
| 70°    | 1378.4 | 1403.5 | 1424.8 | 1446.2 | 1461.2 | 1472.5 | 1467.5 | 1470.0 |
| 72.5°  | 1276.7 | 1301.8 | 1321.9 | 1338.2 | 1349.5 | 1358.3 | 1353.3 | 1354.5 |
| 75°    | 1185.0 | 1201.4 | 1215.2 | 1229.0 | 1239.0 | 1245.3 | 1240.3 | 1242.8 |
| 77.5°  | 1089.6 | 1102.2 | 1111.0 | 1124.8 | 1133.6 | 1139.9 | 1134.8 | 1136.1 |
| 80°    | 993.0  | 1005.5 | 1013.1 | 1020.6 | 1030.6 | 1035.7 | 1028.1 | 1029.4 |
| 82.5°  | 901.3  | 910.1  | 917.7  | 927.7  | 934.0  | 937.7  | 935.2  | 934.0  |
| 85°    | 813.5  | 818.5  | 827.3  | 837.3  | 842.3  | 847.4  | 844.8  | 843.6  |
| 87.5°  | 724.3  | 726.8  | 734.4  | 744.4  | 748.2  | 752.0  | 748.2  | 748.2  |
| 90°    | 546.1  | 552.4  | 557.4  | 566.2  | 569.9  | 571.2  | 568.7  | 568.7  |
| 92.5°  | 489.6  | 497.1  | 502.1  | 507.2  | 513.4  | 514.7  | 513.4  | 515.9  |
| 95°    | 421.8  | 433.1  | 441.9  | 446.9  | 453.2  | 455.7  | 454.4  | 458.2  |
| 97.5°  | 320.1  | 344.0  | 361.5  | 370.3  | 380.4  | 382.9  | 382.9  | 382.9  |
| 100°   | 259.9  | 264.9  | 269.9  | 271.2  | 274.9  | 276.2  | 274.9  | 276.2  |
| 102.5° | 226.0  | 231.0  | 236.0  | 239.8  | 242.3  | 242.3  | 241.0  | 242.3  |
| 105°   | 200.9  | 204.6  | 208.4  | 212.2  | 213.4  | 214.7  | 213.4  | 214.7  |
| 107.5° | 184.5  | 185.8  | 187.0  | 189.6  | 190.8  | 192.1  | 192.1  | 190.8  |
| 110°   | 174.5  | 175.7  | 175.7  | 177.0  | 177.0  | 177.0  | 174.5  | 173.2  |





TEST NUMBER: P236454

CATALOG NUMBER: SKB2-LD5-12-W-UNV-L835-CD2-U all blades tilted out 20 degrees

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 164.5 | 167.0 | 168.2 | 168.2 | 169.5 | 169.5 | 167.0 | 165.7 |
| 115°   | 151.9 | 156.9 | 159.4 | 161.9 | 163.2 | 161.9 | 160.7 | 159.4 |
| 117.5° | 139.3 | 145.6 | 148.1 | 151.9 | 154.4 | 154.4 | 153.2 | 150.6 |
| 120°   | 124.3 | 131.8 | 136.8 | 141.9 | 144.4 | 144.4 | 143.1 | 141.9 |
| 122.5° | 105.4 | 115.5 | 124.3 | 129.3 | 133.1 | 133.1 | 133.1 | 130.6 |
| 125°   | 109.2 | 104.2 | 106.7 | 113.0 | 120.5 | 121.8 | 120.5 | 120.5 |
| 127.5° | 115.5 | 110.5 | 108.0 | 104.2 | 101.7 | 102.9 | 101.7 | 100.4 |
| 130°   | 123.0 | 118.0 | 114.2 | 110.5 | 108.0 | 104.2 | 100.4 | 99.2  |
| 132.5° | 130.6 | 125.5 | 121.8 | 116.7 | 113.0 | 110.5 | 106.7 | 104.2 |
| 135°   | 136.8 | 133.1 | 129.3 | 124.3 | 120.5 | 116.7 | 113.0 | 110.5 |
| 137.5° | 144.4 | 138.1 | 134.3 | 131.8 | 128.0 | 124.3 | 119.3 | 116.7 |
| 140°   | 154.4 | 146.9 | 140.6 | 135.6 | 133.1 | 129.3 | 125.5 | 123.0 |
| 142.5° | 169.5 | 158.2 | 149.4 | 144.4 | 139.3 | 135.6 | 130.6 | 128.0 |
| 145°   | 192.1 | 175.7 | 164.5 | 155.7 | 149.4 | 144.4 | 139.3 | 136.8 |
| 147.5° | 229.7 | 200.9 | 185.8 | 173.2 | 165.7 | 159.4 | 153.2 | 150.6 |
| 150°   | 291.2 | 262.4 | 222.2 | 200.9 | 189.6 | 182.0 | 175.7 | 172.0 |
| 152.5° | 287.5 | 288.7 | 287.5 | 272.4 | 251.1 | 234.7 | 219.7 | 208.4 |
| 155°   | 281.2 | 282.5 | 282.5 | 281.2 | 279.9 | 278.7 | 276.2 | 273.7 |
| 157.5° | 274.9 | 277.4 | 277.4 | 276.2 | 274.9 | 272.4 | 269.9 | 268.6 |
| 160°   | 267.4 | 268.6 | 269.9 | 268.6 | 268.6 | 266.1 | 263.6 | 262.4 |
| 162.5° | 257.3 | 259.9 | 259.9 | 259.9 | 258.6 | 257.3 | 256.1 | 253.6 |
| 165°   | 244.8 | 247.3 | 248.6 | 248.6 | 247.3 | 246.0 | 243.5 | 242.3 |
| 167.5° | 232.2 | 234.7 | 236.0 | 234.7 | 234.7 | 232.2 | 229.7 | 227.2 |
| 170°   | 237.3 | 232.2 | 223.5 | 219.7 | 219.7 | 217.2 | 213.4 | 213.4 |
| 172.5° | 264.9 | 261.1 | 256.1 | 252.3 | 247.3 | 243.5 | 239.8 | 236.0 |
| 175°   | 272.4 | 271.2 | 269.9 | 266.1 | 263.6 | 259.9 | 257.3 | 253.6 |
| 177.5° | 274.9 | 274.9 | 273.7 | 271.2 | 268.6 | 264.9 | 261.1 | 257.3 |
| 180°   | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 | 276.2 |

(END OF REPORT)