

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: P236392

Luminaire Tested: **SKB4-LD5-18-N-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P236392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-365-8)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SKB4-LD5-18-N-UNV-L840-CD2-U
Description: METALUX SKYBAR LED WAVESTREAM LUMINAIRE
4 BLADES WITH NARROW DISTRIBUTION LENS, ALL BLADES VERTICAL
Light Source: (952) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

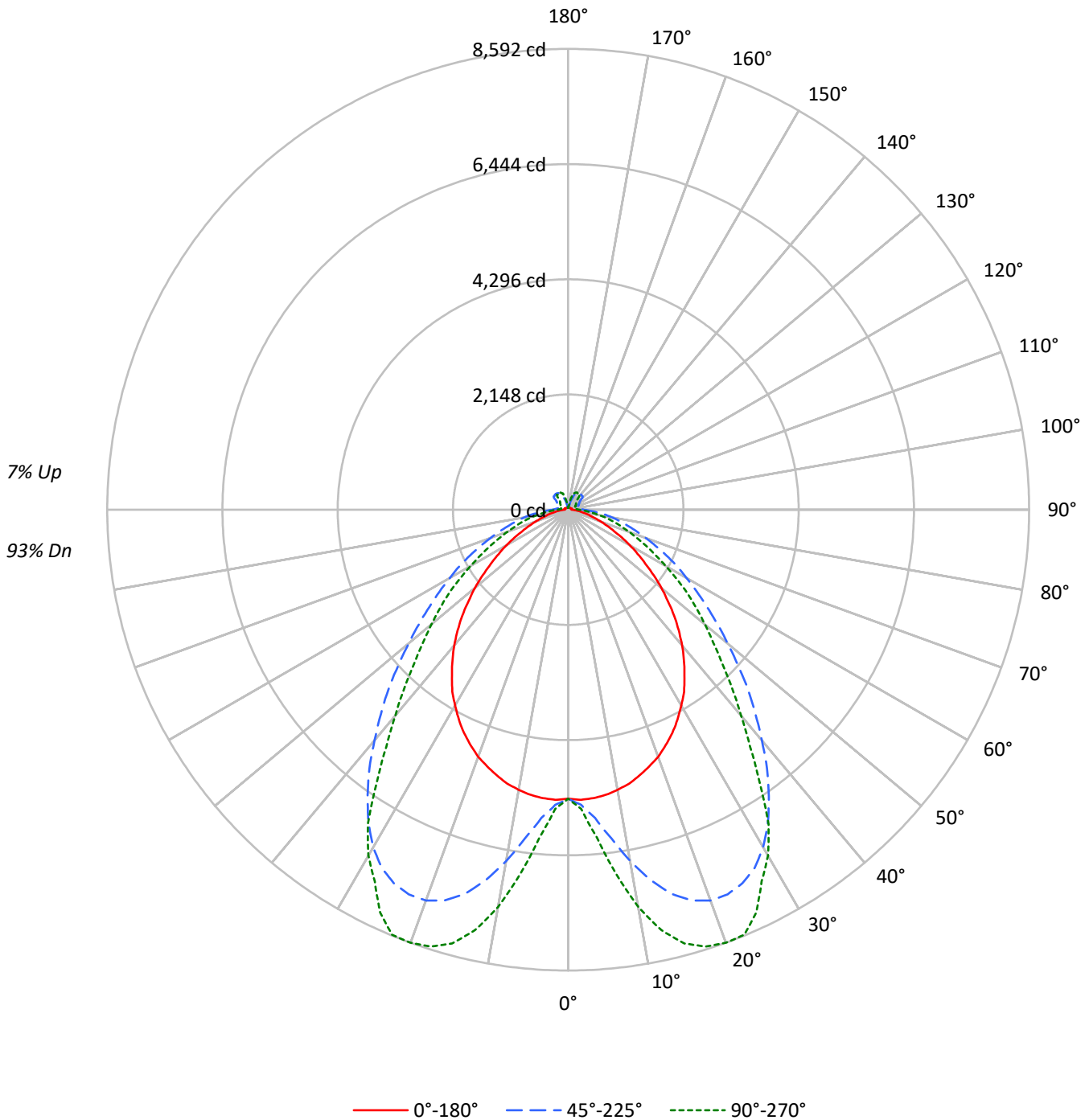
Lumens per Lamp: N/A
Luminaire Lumens: 19907.0 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.56 / 1.53
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 4' x H: 0.21')
CIE Type: Direct

Input Watts (W): 143.4
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: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

Luminous Intensity Polar Plot





TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1 | 107 | 103 | 99 | 95 | 104 | 100 | 96 | 93 | 94 | 91 | 89 | 89 | 87 | 85 | 85 | 83 | 81 | 78 |
| 2 | 98 | 90 | 84 | 78 | 95 | 88 | 82 | 77 | 83 | 78 | 74 | 79 | 75 | 71 | 75 | 72 | 69 | 66 |
| 3 | 90 | 80 | 72 | 66 | 87 | 78 | 71 | 65 | 74 | 68 | 63 | 70 | 65 | 61 | 67 | 63 | 59 | 57 |
| 4 | 83 | 71 | 63 | 57 | 80 | 70 | 62 | 56 | 66 | 60 | 54 | 63 | 57 | 53 | 60 | 55 | 51 | 49 |
| 5 | 76 | 64 | 55 | 49 | 74 | 63 | 55 | 49 | 60 | 53 | 47 | 57 | 51 | 46 | 55 | 49 | 45 | 43 |
| 6 | 71 | 58 | 49 | 43 | 68 | 57 | 49 | 43 | 54 | 47 | 42 | 52 | 46 | 41 | 50 | 44 | 40 | 38 |
| 7 | 66 | 53 | 44 | 38 | 64 | 51 | 44 | 38 | 49 | 42 | 37 | 47 | 41 | 36 | 45 | 40 | 36 | 34 |
| 8 | 61 | 48 | 40 | 34 | 59 | 47 | 39 | 34 | 45 | 38 | 33 | 44 | 37 | 33 | 42 | 36 | 32 | 30 |
| 9 | 57 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 39 | 33 | 29 | 27 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 36 | 30 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 7731 | 7731 | 7731 |
| 5° | 7742 | 8231 | 8755 |
| 10° | 7658 | 9498 | 10749 |
| 15° | 7521 | 10682 | 12079 |
| 20° | 7351 | 11365 | 12613 |
| 25° | 7101 | 11548 | 12479 |
| 30° | 6779 | 11287 | 11596 |
| 35° | 6385 | 10570 | 10123 |
| 40° | 5930 | 9588 | 8591 |
| 45° | 5386 | 8624 | 7412 |
| 50° | 4762 | 7614 | 6559 |
| 55° | 4092 | 6779 | 5847 |
| 60° | 3497 | 6084 | 5054 |
| 65° | 2869 | 5501 | 4403 |
| 70° | 2372 | 4905 | 3863 |
| 75° | 1956 | 4445 | 3485 |
| 80° | 1688 | 4145 | 3021 |
| 85° | 1547 | 3737 | 2637 |



TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 574.4 | 2.9 |
| 10°-20° | 1998.2 | 10.0 |
| 20°-30° | 3260.6 | 16.4 |
| 30°-40° | 3647.5 | 18.3 |
| 40°-50° | 3227.6 | 16.2 |
| 50°-60° | 2499.7 | 12.6 |
| 60°-70° | 1725.8 | 8.7 |
| 70°-80° | 1073.1 | 5.4 |
| 80°-90° | 532.8 | 2.7 |
| 90°-100° | 221.7 | 1.1 |
| 100°-110° | 185.6 | 0.9 |
| 110°-120° | 204.1 | 1.0 |
| 120°-130° | 211.9 | 1.1 |
| 130°-140° | 207.5 | 1.0 |
| 140°-150° | 179.1 | 0.9 |
| 150°-160° | 113.3 | 0.6 |
| 160°-170° | 39.8 | 0.2 |
| 170°-180° | 4.2 | 0.0 |
| 0°-30° | 5833.2 | 29.3 |
| 0°-40° | 9480.7 | 47.6 |
| 0°-60° | 15208.0 | 76.4 |
| 0°-90° | 18539.7 | 93.1 |
| 90°-120° | 611.5 | 3.1 |
| 90°-150° | 1209.9 | 6.1 |
| 90°-180° | 1367.0 | 6.9 |
| 0°-180° | 19907.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 5386 | 5386 | 5386 | 5386 | 5386 | |
| 5° | 5398 | 5521 | 5771 | 5994 | 6136 | 512 |
| 15° | 5132 | 6031 | 7412 | 8143 | 8372 | 1446 |
| 25° | 4593 | 6207 | 7685 | 8234 | 8289 | 2110 |
| 35° | 3777 | 5484 | 6520 | 6400 | 6227 | 2360 |
| 45° | 2792 | 4169 | 4740 | 4351 | 4057 | 2146 |
| 55° | 1757 | 2829 | 3156 | 2884 | 2707 | 1584 |
| 65° | 939 | 1833 | 2021 | 1763 | 1606 | 947 |
| 75° | 421 | 1204 | 1147 | 1010 | 889 | 458 |
| 85° | 150 | 666 | 526 | 420 | 364 | 146 |
| 90° | 60 | 383 | 289 | 232 | 197 | 39 |
| 95° | 65 | 274 | 214 | 167 | 148 | 54 |
| 105° | 68 | 255 | 164 | 144 | 134 | 72 |
| 115° | 60 | 343 | 214 | 162 | 146 | 60 |
| 125° | 53 | 357 | 262 | 194 | 176 | 48 |
| 135° | 43 | 321 | 361 | 249 | 216 | 34 |
| 145° | 39 | 249 | 370 | 356 | 340 | 25 |
| 155° | 39 | 111 | 319 | 353 | 353 | 18 |
| 165° | 40 | 45 | 129 | 215 | 244 | 11 |
| 175° | 39 | 39 | 40 | 41 | 35 | 4 |
| 180° | 38 | 38 | 38 | 38 | 38 | |



TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 |
| 2.5° | 5414.9 | 5403.6 | 5404.4 | 5420.1 | 5428.4 | 5424.6 | 5436.6 | 5453.8 | 5474.8 | 5499.6 | 5508.6 |
| 5° | 5398.4 | 5393.1 | 5416.4 | 5464.3 | 5504.1 | 5520.6 | 5544.5 | 5598.5 | 5657.0 | 5702.7 | 5770.9 |
| 7.5° | 5363.1 | 5368.4 | 5423.1 | 5501.8 | 5582.8 | 5619.5 | 5663.0 | 5761.2 | 5903.6 | 6031.0 | 6183.9 |
| 10° | 5303.2 | 5324.9 | 5417.9 | 5531.1 | 5657.7 | 5731.9 | 5816.6 | 6015.3 | 6247.6 | 6448.5 | 6650.2 |
| 12.5° | 5234.2 | 5271.7 | 5387.9 | 5543.8 | 5755.2 | 5874.4 | 6013.0 | 6295.6 | 6573.7 | 6821.8 | 7066.2 |
| 15° | 5132.3 | 5200.5 | 5345.9 | 5555.8 | 5864.6 | 6031.0 | 6198.9 | 6524.2 | 6854.8 | 7166.6 | 7411.7 |
| 17.5° | 5019.1 | 5110.5 | 5283.7 | 5573.0 | 5955.3 | 6143.4 | 6329.3 | 6700.4 | 7080.4 | 7378.7 | 7636.6 |
| 20° | 4904.4 | 4997.4 | 5201.2 | 5573.0 | 6003.3 | 6213.2 | 6418.5 | 6833.0 | 7197.3 | 7505.4 | 7753.5 |
| 22.5° | 4750.8 | 4879.7 | 5107.5 | 5544.5 | 6010.8 | 6236.4 | 6461.3 | 6864.5 | 7233.3 | 7519.7 | 7762.5 |
| 25° | 4593.3 | 4717.0 | 5001.1 | 5474.1 | 5965.1 | 6207.2 | 6422.3 | 6824.8 | 7175.6 | 7453.7 | 7684.6 |
| 27.5° | 4412.7 | 4543.9 | 4863.2 | 5367.6 | 5870.6 | 6103.0 | 6315.8 | 6700.4 | 7049.7 | 7316.5 | 7526.4 |
| 30° | 4213.3 | 4358.7 | 4706.5 | 5211.0 | 5711.7 | 5936.6 | 6146.4 | 6512.2 | 6844.3 | 7079.7 | 7264.8 |
| 32.5° | 4020.7 | 4148.9 | 4513.1 | 5022.1 | 5510.1 | 5725.2 | 5920.8 | 6276.9 | 6569.2 | 6779.1 | 6925.2 |
| 35° | 3777.1 | 3913.5 | 4297.3 | 4801.0 | 5266.5 | 5483.8 | 5645.0 | 5975.5 | 6243.9 | 6408.8 | 6520.5 |
| 37.5° | 3545.4 | 3668.4 | 4054.4 | 4554.4 | 4986.9 | 5174.3 | 5346.7 | 5647.2 | 5881.8 | 6031.0 | 6087.2 |
| 40° | 3303.3 | 3415.0 | 3794.3 | 4265.8 | 4674.3 | 4848.2 | 5010.1 | 5285.2 | 5491.3 | 5597.8 | 5613.5 |
| 42.5° | 3047.0 | 3144.4 | 3522.2 | 3959.2 | 4345.2 | 4513.9 | 4674.3 | 4907.4 | 5084.3 | 5182.5 | 5165.3 |
| 45° | 2792.1 | 2869.3 | 3239.6 | 3650.4 | 4010.2 | 4169.1 | 4298.0 | 4519.9 | 4681.0 | 4735.0 | 4739.5 |
| 47.5° | 2515.5 | 2601.0 | 2950.3 | 3347.6 | 3684.1 | 3819.0 | 3933.7 | 4147.4 | 4277.0 | 4311.5 | 4291.3 |
| 50° | 2265.2 | 2340.9 | 2661.7 | 3028.2 | 3348.3 | 3460.7 | 3583.7 | 3781.6 | 3874.5 | 3910.5 | 3879.0 |
| 52.5° | 2008.1 | 2088.3 | 2388.9 | 2727.7 | 3010.3 | 3151.2 | 3243.4 | 3421.8 | 3498.2 | 3517.7 | 3505.7 |
| 55° | 1757.0 | 1850.7 | 2134.0 | 2440.6 | 2717.2 | 2828.9 | 2942.8 | 3091.2 | 3157.2 | 3154.2 | 3155.7 |
| 57.5° | 1535.1 | 1612.3 | 1886.7 | 2182.7 | 2445.8 | 2541.0 | 2643.0 | 2767.4 | 2829.6 | 2844.6 | 2843.1 |
| 60° | 1328.2 | 1404.7 | 1670.0 | 1933.1 | 2188.0 | 2289.9 | 2370.1 | 2473.6 | 2528.3 | 2539.5 | 2543.3 |
| 62.5° | 1126.6 | 1212.0 | 1463.2 | 1722.5 | 1960.9 | 2057.6 | 2128.0 | 2227.0 | 2261.4 | 2268.9 | 2291.4 |
| 65° | 939.2 | 1038.9 | 1279.5 | 1536.6 | 1750.2 | 1832.7 | 1894.9 | 1978.1 | 2016.3 | 2039.6 | 2020.8 |
| 67.5° | 781.8 | 889.0 | 1125.1 | 1377.0 | 1571.8 | 1647.5 | 1704.5 | 1769.0 | 1802.0 | 1805.7 | 1763.7 |
| 70° | 646.1 | 760.8 | 988.7 | 1224.8 | 1412.2 | 1481.1 | 1532.9 | 1584.6 | 1578.6 | 1556.1 | 1539.6 |
| 72.5° | 525.4 | 646.1 | 880.7 | 1100.4 | 1273.5 | 1335.0 | 1377.0 | 1407.7 | 1374.7 | 1359.7 | 1335.0 |
| 75° | 421.3 | 549.4 | 787.8 | 994.7 | 1151.3 | 1203.8 | 1224.0 | 1218.8 | 1197.1 | 1174.6 | 1146.8 |
| 77.5° | 334.3 | 467.7 | 698.6 | 898.0 | 1035.9 | 1068.9 | 1078.6 | 1059.1 | 1029.2 | 1008.2 | 981.2 |
| 80° | 264.6 | 401.8 | 624.4 | 809.5 | 907.0 | 930.2 | 936.2 | 909.2 | 877.0 | 859.0 | 829.8 |
| 82.5° | 201.6 | 343.3 | 553.2 | 707.6 | 784.8 | 799.0 | 795.3 | 765.3 | 739.1 | 706.1 | 676.9 |
| 85° | 149.9 | 287.8 | 476.7 | 600.4 | 655.9 | 665.6 | 656.6 | 625.1 | 597.4 | 564.4 | 526.2 |
| 87.5° | 104.9 | 236.1 | 390.5 | 485.0 | 528.4 | 527.7 | 517.2 | 489.5 | 456.5 | 427.3 | 397.3 |
| 90° | 60.0 | 167.9 | 287.1 | 350.0 | 380.8 | 383.0 | 374.8 | 350.8 | 331.3 | 314.1 | 288.6 |
| 92.5° | 61.5 | 128.2 | 217.4 | 286.3 | 320.8 | 324.6 | 323.8 | 308.1 | 287.1 | 266.1 | 247.4 |
| 95° | 65.2 | 106.4 | 169.4 | 224.9 | 263.1 | 273.6 | 278.1 | 269.1 | 253.4 | 234.6 | 214.4 |
| 97.5° | 67.5 | 111.7 | 166.4 | 205.4 | 227.9 | 234.6 | 241.4 | 236.9 | 224.9 | 209.1 | 192.6 |
| 100° | 69.7 | 122.9 | 179.1 | 212.1 | 227.1 | 227.1 | 223.4 | 214.4 | 206.9 | 194.9 | 179.9 |
| 102.5° | 69.7 | 128.2 | 197.1 | 226.4 | 239.9 | 238.4 | 235.4 | 213.6 | 192.6 | 185.1 | 173.9 |
| 105° | 67.5 | 130.4 | 214.4 | 251.1 | 254.1 | 254.9 | 248.9 | 230.9 | 205.4 | 183.6 | 164.2 |
| 107.5° | 67.5 | 128.2 | 221.1 | 266.8 | 272.8 | 268.3 | 263.8 | 245.1 | 220.4 | 199.4 | 176.1 |
| 110° | 66.0 | 125.9 | 224.1 | 287.8 | 303.6 | 287.8 | 278.1 | 259.4 | 234.6 | 210.6 | 192.6 |



TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 63.0 | 117.7 | 221.9 | 293.8 | 322.3 | 316.3 | 298.3 | 272.1 | 247.4 | 223.4 | 203.1 |
| 115° | 60.0 | 105.7 | 215.1 | 294.6 | 335.1 | 343.3 | 338.8 | 289.3 | 259.4 | 235.4 | 214.4 |
| 117.5° | 58.5 | 95.9 | 212.1 | 294.6 | 344.1 | 353.0 | 357.5 | 314.8 | 273.6 | 245.9 | 225.6 |
| 120° | 57.0 | 84.0 | 205.4 | 291.6 | 344.8 | 359.8 | 365.8 | 361.3 | 293.8 | 258.6 | 234.6 |
| 122.5° | 55.5 | 72.7 | 197.9 | 286.3 | 342.6 | 359.8 | 371.0 | 371.0 | 333.6 | 275.1 | 245.9 |
| 125° | 53.2 | 65.2 | 178.4 | 276.6 | 338.1 | 356.8 | 370.3 | 377.8 | 365.0 | 303.6 | 261.6 |
| 127.5° | 51.0 | 57.7 | 163.4 | 268.3 | 331.3 | 351.5 | 365.8 | 378.5 | 374.8 | 353.8 | 285.6 |
| 130° | 48.7 | 51.0 | 144.7 | 261.6 | 321.6 | 343.3 | 359.8 | 377.0 | 375.5 | 369.5 | 344.8 |
| 132.5° | 45.7 | 47.2 | 122.9 | 246.6 | 308.1 | 333.6 | 351.5 | 372.5 | 377.8 | 367.3 | 367.3 |
| 135° | 42.7 | 43.5 | 99.7 | 215.1 | 296.1 | 320.8 | 342.6 | 366.5 | 376.3 | 372.5 | 361.3 |
| 137.5° | 41.2 | 42.0 | 78.0 | 190.4 | 293.1 | 307.3 | 329.1 | 359.8 | 373.3 | 374.8 | 368.0 |
| 140° | 40.5 | 40.5 | 62.2 | 168.7 | 275.8 | 302.1 | 314.8 | 349.3 | 367.3 | 373.3 | 371.0 |
| 142.5° | 39.7 | 39.7 | 51.7 | 144.7 | 233.9 | 290.1 | 308.1 | 335.8 | 359.8 | 370.3 | 371.8 |
| 145° | 39.0 | 39.7 | 45.7 | 116.2 | 203.9 | 248.9 | 300.6 | 320.1 | 347.8 | 363.5 | 369.5 |
| 147.5° | 39.0 | 39.7 | 44.2 | 86.2 | 176.1 | 209.9 | 254.1 | 314.8 | 331.3 | 353.0 | 364.3 |
| 150° | 39.0 | 39.0 | 43.5 | 61.5 | 145.4 | 182.9 | 215.1 | 296.1 | 317.1 | 337.3 | 352.3 |
| 152.5° | 39.0 | 39.0 | 42.7 | 51.0 | 110.9 | 150.7 | 183.6 | 240.6 | 311.1 | 319.3 | 333.6 |
| 155° | 39.0 | 39.0 | 42.0 | 46.5 | 75.0 | 110.9 | 149.2 | 200.9 | 252.6 | 311.8 | 318.6 |
| 157.5° | 39.7 | 39.7 | 41.2 | 45.0 | 55.5 | 73.5 | 105.7 | 165.7 | 206.9 | 254.9 | 302.1 |
| 160° | 39.7 | 39.7 | 40.5 | 44.2 | 48.0 | 53.2 | 65.2 | 116.2 | 166.4 | 199.4 | 233.9 |
| 162.5° | 39.7 | 39.7 | 40.5 | 42.7 | 45.7 | 47.2 | 50.2 | 70.5 | 116.2 | 161.2 | 187.4 |
| 165° | 39.7 | 39.7 | 39.7 | 41.2 | 44.2 | 45.0 | 46.5 | 51.0 | 64.5 | 94.4 | 128.9 |
| 167.5° | 39.7 | 39.7 | 39.7 | 40.5 | 42.0 | 43.5 | 44.2 | 46.5 | 48.7 | 52.5 | 64.5 |
| 170° | 39.7 | 39.7 | 39.7 | 39.7 | 40.5 | 41.2 | 42.0 | 43.5 | 45.0 | 45.7 | 47.2 |
| 172.5° | 39.0 | 39.7 | 39.0 | 39.0 | 39.0 | 39.7 | 39.7 | 40.5 | 41.2 | 42.0 | 42.7 |
| 175° | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.7 |
| 177.5° | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 39.0 | 38.2 | 38.2 |
| 180° | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 |



TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 | 5386.4 |
| 2.5° | 5523.6 | 5528.8 | 5531.1 | 5555.8 | 5558.0 | 5555.0 | 5558.8 | 5584.3 | 5585.0 | 5585.0 |
| 5° | 5811.4 | 5866.1 | 5930.6 | 5976.3 | 5994.3 | 6001.0 | 6055.0 | 6081.2 | 6088.0 | 6136.0 |
| 7.5° | 6329.3 | 6406.5 | 6501.7 | 6584.9 | 6632.9 | 6660.6 | 6710.9 | 6773.1 | 6799.3 | 6852.5 |
| 10° | 6824.1 | 6977.7 | 7102.9 | 7210.1 | 7282.0 | 7309.8 | 7378.0 | 7458.9 | 7517.4 | 7520.4 |
| 12.5° | 7272.3 | 7457.4 | 7602.9 | 7736.3 | 7778.3 | 7827.7 | 7908.7 | 7964.9 | 8017.4 | 8030.9 |
| 15° | 7634.3 | 7804.5 | 7956.6 | 8090.8 | 8143.3 | 8179.3 | 8261.0 | 8321.7 | 8352.4 | 8371.9 |
| 17.5° | 7861.5 | 8026.4 | 8168.0 | 8288.0 | 8329.2 | 8371.2 | 8440.1 | 8492.6 | 8527.1 | 8539.1 |
| 20° | 7952.9 | 8111.1 | 8241.5 | 8354.7 | 8395.1 | 8431.1 | 8497.1 | 8549.6 | 8582.5 | 8592.3 |
| 22.5° | 7951.4 | 8097.6 | 8229.5 | 8335.9 | 8377.9 | 8418.4 | 8484.3 | 8530.8 | 8563.0 | 8577.3 |
| 25° | 7862.2 | 8009.9 | 8128.3 | 8211.5 | 8234.0 | 8258.0 | 8290.2 | 8295.5 | 8314.2 | 8288.7 |
| 27.5° | 7683.8 | 7811.2 | 7869.7 | 7890.7 | 7887.7 | 7881.7 | 7860.0 | 7839.7 | 7836.7 | 7810.5 |
| 30° | 7386.2 | 7460.4 | 7486.7 | 7468.7 | 7475.4 | 7430.5 | 7422.2 | 7410.2 | 7431.2 | 7446.2 |
| 32.5° | 7003.2 | 7038.4 | 7001.7 | 6980.0 | 6965.0 | 6956.7 | 6962.0 | 6964.2 | 6957.5 | 6948.5 |
| 35° | 6552.7 | 6519.7 | 6477.8 | 6412.5 | 6399.8 | 6374.3 | 6330.1 | 6297.9 | 6271.6 | 6227.4 |
| 37.5° | 6067.0 | 6014.5 | 5970.3 | 5890.8 | 5838.4 | 5814.4 | 5721.4 | 5655.5 | 5589.5 | 5568.5 |
| 40° | 5580.5 | 5517.6 | 5462.8 | 5373.6 | 5330.9 | 5282.9 | 5159.3 | 5106.0 | 5049.8 | 5013.1 |
| 42.5° | 5126.3 | 5079.1 | 4995.1 | 4899.2 | 4820.5 | 4761.2 | 4663.8 | 4593.3 | 4552.9 | 4526.6 |
| 45° | 4682.5 | 4621.8 | 4516.1 | 4412.7 | 4351.2 | 4291.3 | 4200.6 | 4137.6 | 4079.1 | 4057.4 |
| 47.5° | 4263.5 | 4180.3 | 4095.6 | 3987.7 | 3921.0 | 3873.8 | 3813.0 | 3738.8 | 3692.4 | 3669.9 |
| 50° | 3837.0 | 3774.1 | 3683.4 | 3580.7 | 3542.5 | 3493.0 | 3421.8 | 3368.6 | 3332.6 | 3326.6 |
| 52.5° | 3461.5 | 3405.3 | 3324.3 | 3230.6 | 3183.4 | 3158.7 | 3090.5 | 3043.2 | 3023.0 | 3008.8 |
| 55° | 3123.4 | 3074.0 | 2992.3 | 2920.3 | 2883.6 | 2856.6 | 2795.9 | 2751.7 | 2735.9 | 2707.4 |
| 57.5° | 2805.6 | 2770.4 | 2711.9 | 2636.2 | 2611.5 | 2571.8 | 2502.8 | 2456.3 | 2412.1 | 2391.9 |
| 60° | 2527.5 | 2485.6 | 2417.4 | 2350.6 | 2303.4 | 2261.4 | 2193.2 | 2146.8 | 2101.0 | 2099.5 |
| 62.5° | 2262.2 | 2206.0 | 2126.5 | 2047.1 | 2014.8 | 1987.1 | 1915.1 | 1867.2 | 1840.9 | 1838.7 |
| 65° | 1975.9 | 1923.4 | 1857.4 | 1800.5 | 1763.0 | 1737.5 | 1698.5 | 1648.3 | 1616.8 | 1605.6 |
| 67.5° | 1721.0 | 1681.3 | 1628.8 | 1579.3 | 1553.1 | 1529.9 | 1472.1 | 1432.4 | 1400.9 | 1392.7 |
| 70° | 1505.1 | 1469.2 | 1427.2 | 1371.0 | 1347.7 | 1321.5 | 1273.5 | 1230.8 | 1200.8 | 1201.6 |
| 72.5° | 1305.7 | 1273.5 | 1234.5 | 1185.1 | 1161.1 | 1144.6 | 1100.4 | 1069.6 | 1042.6 | 1034.4 |
| 75° | 1121.4 | 1093.6 | 1069.6 | 1027.7 | 1010.4 | 989.4 | 948.2 | 919.7 | 898.7 | 889.0 |
| 77.5° | 962.4 | 942.2 | 907.7 | 867.2 | 853.8 | 826.8 | 790.0 | 763.1 | 742.1 | 741.3 |
| 80° | 801.3 | 770.6 | 742.1 | 705.3 | 688.9 | 670.9 | 634.9 | 611.6 | 596.7 | 595.9 |
| 82.5° | 645.4 | 619.1 | 591.4 | 556.9 | 545.7 | 532.2 | 510.5 | 488.0 | 477.5 | 467.0 |
| 85° | 505.2 | 480.5 | 457.2 | 434.7 | 420.5 | 413.0 | 390.5 | 381.5 | 365.0 | 363.5 |
| 87.5° | 376.3 | 358.3 | 347.0 | 326.8 | 320.1 | 314.8 | 300.6 | 287.1 | 281.8 | 275.1 |
| 90° | 269.8 | 254.9 | 246.6 | 233.9 | 232.4 | 224.9 | 218.9 | 209.1 | 200.9 | 197.1 |
| 92.5° | 229.4 | 213.6 | 204.6 | 194.9 | 190.4 | 188.1 | 179.9 | 173.1 | 170.2 | 166.4 |
| 95° | 197.9 | 185.1 | 176.9 | 170.2 | 167.2 | 164.2 | 158.9 | 155.2 | 150.7 | 148.4 |
| 97.5° | 176.9 | 167.2 | 160.4 | 154.4 | 152.2 | 150.7 | 146.2 | 142.4 | 139.4 | 137.2 |
| 100° | 166.4 | 156.7 | 150.7 | 146.2 | 143.2 | 141.7 | 137.9 | 134.9 | 132.7 | 131.2 |
| 102.5° | 161.9 | 152.9 | 147.7 | 143.9 | 142.4 | 140.2 | 137.2 | 134.9 | 132.7 | 131.2 |
| 105° | 158.9 | 152.9 | 147.7 | 144.7 | 143.9 | 142.4 | 139.4 | 137.9 | 136.4 | 134.2 |
| 107.5° | 158.9 | 144.7 | 141.7 | 144.7 | 144.7 | 143.2 | 140.9 | 139.4 | 137.9 | 136.4 |
| 110° | 173.1 | 158.2 | 148.4 | 140.2 | 136.4 | 134.2 | 131.9 | 133.4 | 134.9 | 132.7 |



TEST NUMBER: P236392

CATALOG NUMBER: SKB4-LD5-18-N-UNV-L840-CD2-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 112.5° | 186.6 | 172.4 | 160.4 | 150.7 | 147.7 | 144.7 | 143.2 | 141.7 | 138.7 | 137.9 |
| 115° | 196.4 | 180.6 | 171.7 | 164.9 | 161.9 | 159.7 | 155.2 | 151.4 | 149.2 | 146.2 |
| 117.5° | 206.9 | 190.4 | 178.4 | 170.2 | 167.9 | 166.4 | 164.2 | 161.9 | 159.7 | 158.2 |
| 120° | 216.6 | 200.1 | 187.4 | 179.1 | 176.1 | 173.1 | 170.2 | 166.4 | 163.4 | 161.2 |
| 122.5° | 224.9 | 209.9 | 197.1 | 187.4 | 185.1 | 182.1 | 177.6 | 173.9 | 170.2 | 168.7 |
| 125° | 237.6 | 219.6 | 206.1 | 197.1 | 194.1 | 191.9 | 186.6 | 182.9 | 178.4 | 176.1 |
| 127.5° | 251.9 | 232.4 | 218.1 | 206.9 | 203.1 | 199.4 | 194.1 | 189.6 | 185.9 | 184.4 |
| 130° | 278.1 | 248.9 | 231.6 | 218.9 | 214.4 | 210.6 | 204.6 | 198.6 | 194.1 | 192.6 |
| 132.5° | 339.6 | 283.3 | 250.4 | 233.9 | 228.6 | 221.9 | 215.1 | 209.1 | 203.9 | 202.4 |
| 135° | 365.8 | 338.1 | 319.3 | 260.1 | 248.9 | 242.1 | 229.4 | 222.6 | 215.9 | 215.9 |
| 137.5° | 356.8 | 359.8 | 352.3 | 329.1 | 323.1 | 315.6 | 270.6 | 247.4 | 238.4 | 236.1 |
| 140° | 365.0 | 354.5 | 346.3 | 359.8 | 356.8 | 351.5 | 326.1 | 317.8 | 312.6 | 309.6 |
| 142.5° | 368.8 | 363.5 | 355.3 | 347.0 | 344.8 | 341.8 | 347.0 | 352.3 | 352.3 | 350.0 |
| 145° | 370.3 | 367.3 | 363.5 | 358.3 | 356.0 | 353.0 | 349.3 | 344.8 | 341.1 | 339.6 |
| 147.5° | 368.0 | 368.0 | 365.8 | 363.5 | 361.3 | 359.8 | 356.0 | 353.0 | 349.3 | 347.8 |
| 150° | 362.0 | 365.8 | 365.8 | 365.8 | 365.0 | 364.3 | 360.5 | 356.8 | 354.5 | 353.0 |
| 152.5° | 348.5 | 356.8 | 361.3 | 362.8 | 363.5 | 365.0 | 365.0 | 364.3 | 362.0 | 360.5 |
| 155° | 328.3 | 339.6 | 347.0 | 351.5 | 353.0 | 353.8 | 356.0 | 355.3 | 354.5 | 353.0 |
| 157.5° | 317.8 | 317.8 | 328.3 | 337.3 | 338.8 | 341.1 | 343.3 | 343.3 | 341.1 | 340.3 |
| 160° | 276.6 | 308.8 | 317.8 | 314.8 | 315.6 | 317.8 | 321.6 | 324.6 | 326.8 | 324.6 |
| 162.5° | 209.1 | 231.6 | 260.1 | 287.8 | 296.8 | 303.6 | 314.8 | 314.1 | 311.8 | 311.1 |
| 165° | 158.2 | 182.9 | 195.6 | 206.9 | 215.1 | 221.1 | 231.6 | 240.6 | 243.6 | 244.4 |
| 167.5° | 89.9 | 110.2 | 131.2 | 147.7 | 154.4 | 163.4 | 167.2 | 175.4 | 177.6 | 173.9 |
| 170° | 49.5 | 54.0 | 59.2 | 67.5 | 69.0 | 75.0 | 81.7 | 94.4 | 96.7 | 90.7 |
| 172.5° | 44.2 | 45.0 | 45.7 | 46.5 | 46.5 | 46.5 | 46.5 | 46.5 | 44.2 | 42.0 |
| 175° | 39.7 | 40.5 | 40.5 | 41.2 | 41.2 | 41.2 | 40.5 | 39.0 | 36.7 | 35.2 |
| 177.5° | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 37.5 | 35.2 | 33.0 | 31.5 |
| 180° | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 | 38.2 |

(END OF REPORT)