

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: P233278

Luminaire Tested: **4VT3-LD5-6-P-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4VT3-LD5-6-P-UNV-L840-CD1-U
Description: 4FT VT3 GENERAL APPLICATION, 6000LM
Light Source: (392) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

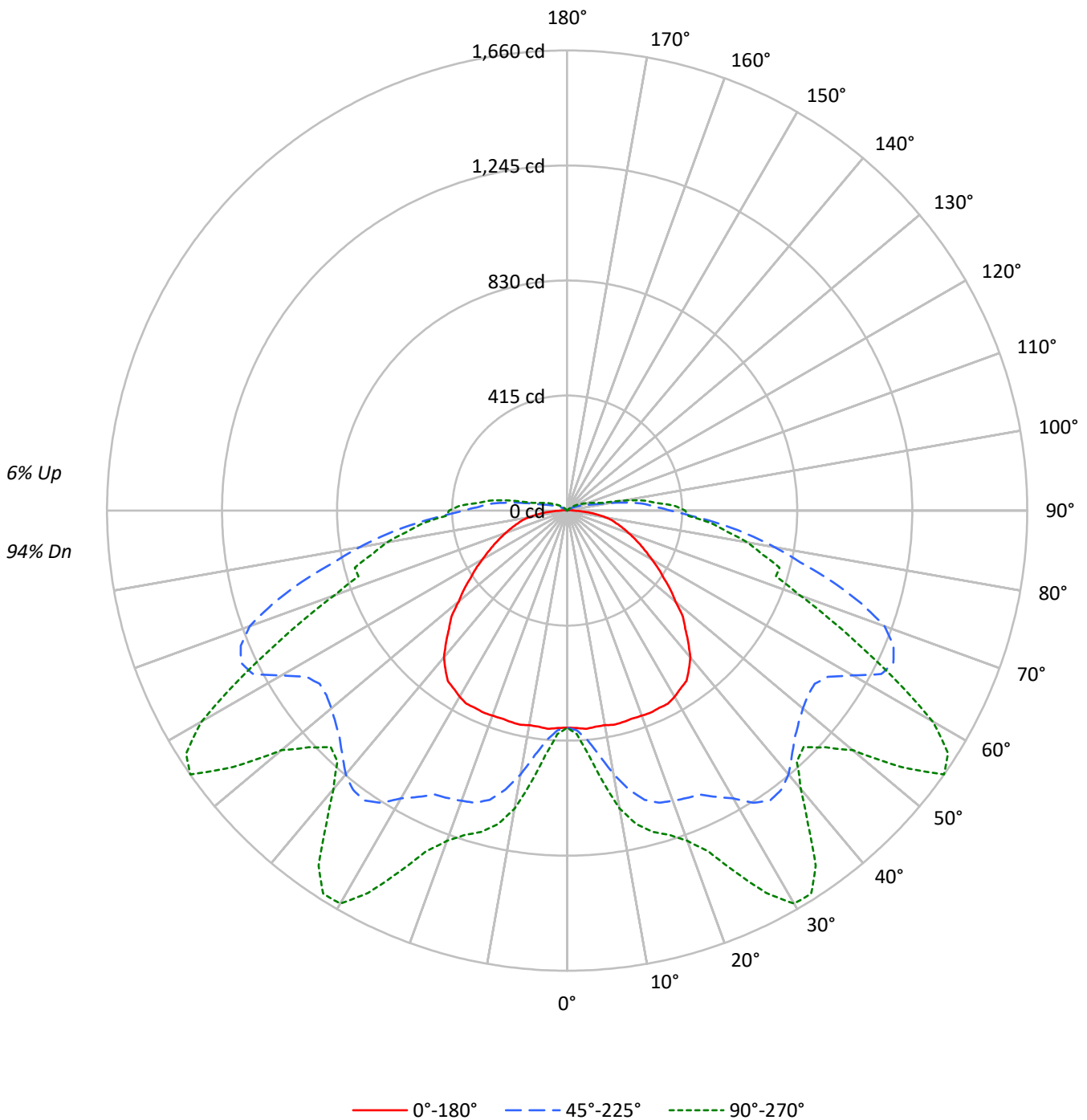
Lumens per Lamp: N/A
Luminaire Lumens: 6050.0 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.45 / 2.17 / 2.13
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 49.3
Input Voltage (V): NR
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: P233278
CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1 | 103 | 96 | 90 | 85 | 99 | 93 | 88 | 83 | 88 | 83 | 79 | 82 | 79 | 75 | 78 | 75 | 72 | 69 |
| 2 | 91 | 81 | 72 | 65 | 88 | 78 | 70 | 64 | 74 | 67 | 61 | 69 | 64 | 59 | 65 | 60 | 56 | 54 |
| 3 | 82 | 69 | 59 | 52 | 79 | 67 | 58 | 51 | 63 | 55 | 49 | 59 | 53 | 47 | 56 | 50 | 45 | 43 |
| 4 | 74 | 60 | 50 | 42 | 71 | 58 | 49 | 41 | 55 | 47 | 40 | 52 | 44 | 39 | 49 | 42 | 37 | 35 |
| 5 | 68 | 53 | 43 | 35 | 65 | 51 | 42 | 35 | 48 | 40 | 34 | 46 | 38 | 33 | 43 | 37 | 32 | 29 |
| 6 | 62 | 47 | 37 | 30 | 60 | 46 | 36 | 29 | 43 | 35 | 29 | 41 | 33 | 28 | 39 | 32 | 27 | 25 |
| 7 | 57 | 42 | 33 | 26 | 55 | 41 | 32 | 25 | 39 | 31 | 25 | 37 | 30 | 24 | 35 | 28 | 23 | 21 |
| 8 | 53 | 38 | 29 | 23 | 51 | 37 | 28 | 22 | 35 | 27 | 22 | 33 | 26 | 21 | 32 | 25 | 21 | 18 |
| 9 | 49 | 35 | 26 | 20 | 48 | 34 | 25 | 20 | 32 | 25 | 19 | 31 | 24 | 19 | 29 | 23 | 18 | 16 |
| 10 | 46 | 32 | 23 | 18 | 44 | 31 | 23 | 18 | 30 | 22 | 17 | 28 | 22 | 17 | 27 | 21 | 16 | 14 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 5056 | 5056 | 5056 |
| 5° | 5106 | 5230 | 5529 |
| 10° | 5116 | 6000 | 6686 |
| 15° | 5216 | 6664 | 7248 |
| 20° | 5331 | 6874 | 7606 |
| 25° | 5488 | 7031 | 8647 |
| 30° | 5647 | 7574 | 9918 |
| 35° | 5750 | 8260 | 9630 |
| 40° | 5631 | 8299 | 8277 |
| 45° | 5285 | 8077 | 7869 |
| 50° | 4886 | 8129 | 9147 |
| 55° | 4530 | 8487 | 11893 |
| 60° | 4259 | 9960 | 11626 |
| 65° | 4075 | 11885 | 9687 |
| 70° | 3994 | 12380 | 8029 |
| 75° | 4053 | 11417 | 7942 |
| 80° | 4269 | 10215 | 7516 |
| 85° | 3880 | 8971 | 6938 |



TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 83.4 | 1.4 |
| 10°-20° | 293.8 | 4.9 |
| 20°-30° | 530.4 | 8.8 |
| 30°-40° | 749.5 | 12.4 |
| 40°-50° | 800.7 | 13.2 |
| 50°-60° | 940.2 | 15.5 |
| 60°-70° | 950.8 | 15.7 |
| 70°-80° | 776.0 | 12.8 |
| 80°-90° | 532.5 | 8.8 |
| 90°-100° | 269.0 | 4.4 |
| 100°-110° | 79.7 | 1.3 |
| 110°-120° | 31.3 | 0.5 |
| 120°-130° | 11.1 | 0.2 |
| 130°-140° | 1.6 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 907.6 | 15.0 |
| 0°-40° | 1657.1 | 27.4 |
| 0°-60° | 3397.9 | 56.2 |
| 0°-90° | 5657.2 | 93.5 |
| 90°-120° | 380.1 | 6.3 |
| 90°-150° | 392.8 | 6.5 |
| 90°-180° | 393.0 | 6.5 |
| 0°-180° | 6050.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 783 | 783 | 783 | 783 | 783 | |
| 5° | 790 | 800 | 829 | 867 | 883 | 75 |
| 15° | 789 | 908 | 1080 | 1175 | 1200 | 223 |
| 25° | 785 | 956 | 1130 | 1341 | 1440 | 363 |
| 35° | 751 | 885 | 1277 | 1549 | 1564 | 465 |
| 45° | 603 | 791 | 1160 | 1228 | 1206 | 466 |
| 55° | 426 | 623 | 1090 | 1502 | 1660 | 384 |
| 65° | 290 | 528 | 1299 | 1280 | 1178 | 289 |
| 75° | 188 | 694 | 991 | 797 | 793 | 199 |
| 85° | 77 | 594 | 553 | 524 | 522 | 77 |
| 90° | 22 | 440 | 372 | 409 | 426 | 15 |
| 95° | 15 | 222 | 279 | 322 | 321 | 11 |
| 105° | 8 | 23 | 81 | 109 | 107 | 8 |
| 115° | 3 | 3 | 32 | 56 | 56 | 3 |
| 125° | 2 | 1 | 8 | 26 | 27 | 1 |
| 135° | 0 | 0 | 0 | 4 | 4 | 0 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 |
| 2.5° | 785.1 | 788.9 | 790.4 | 786.6 | 788.9 | 790.4 | 788.9 | 791.1 | 792.6 | 794.9 | 793.4 |
| 5° | 790.4 | 789.6 | 793.4 | 789.6 | 794.2 | 800.2 | 803.2 | 811.4 | 815.2 | 824.9 | 828.7 |
| 7.5° | 786.6 | 791.9 | 791.9 | 795.7 | 803.9 | 826.4 | 829.4 | 843.7 | 861.0 | 877.5 | 889.5 |
| 10° | 785.9 | 791.9 | 802.4 | 812.9 | 827.2 | 845.9 | 858.7 | 885.0 | 917.3 | 941.3 | 965.3 |
| 12.5° | 791.1 | 793.4 | 811.4 | 825.7 | 854.2 | 874.5 | 891.0 | 931.5 | 966.0 | 996.8 | 1030.6 |
| 15° | 788.9 | 794.9 | 815.2 | 839.9 | 880.5 | 907.5 | 924.8 | 974.3 | 1016.3 | 1046.4 | 1080.1 |
| 17.5° | 785.9 | 797.2 | 822.7 | 855.0 | 902.2 | 936.8 | 955.5 | 1004.3 | 1044.1 | 1083.1 | 1104.9 |
| 20° | 787.4 | 800.2 | 829.4 | 873.7 | 920.3 | 953.3 | 972.8 | 1023.1 | 1062.1 | 1095.1 | 1113.9 |
| 22.5° | 788.9 | 803.2 | 832.4 | 882.7 | 927.0 | 960.8 | 981.1 | 1026.8 | 1061.4 | 1099.7 | 1122.9 |
| 25° | 785.1 | 800.9 | 836.2 | 877.5 | 931.5 | 955.5 | 976.5 | 1020.8 | 1057.6 | 1101.9 | 1130.4 |
| 27.5° | 785.9 | 797.9 | 830.9 | 876.0 | 918.0 | 951.0 | 962.3 | 1012.6 | 1058.4 | 1107.9 | 1164.2 |
| 30° | 775.4 | 789.6 | 825.7 | 857.2 | 898.5 | 929.3 | 946.5 | 1002.1 | 1062.1 | 1127.4 | 1198.7 |
| 32.5° | 761.1 | 776.1 | 808.4 | 830.9 | 879.7 | 906.0 | 930.8 | 1000.6 | 1078.6 | 1160.5 | 1249.8 |
| 35° | 750.6 | 755.1 | 770.9 | 795.7 | 850.4 | 885.0 | 916.5 | 1000.6 | 1092.1 | 1182.2 | 1276.8 |
| 37.5° | 721.3 | 723.6 | 737.1 | 773.9 | 823.4 | 872.2 | 907.5 | 1001.3 | 1097.4 | 1185.2 | 1269.3 |
| 40° | 691.3 | 692.1 | 706.3 | 743.1 | 799.4 | 853.4 | 892.5 | 991.6 | 1082.4 | 1163.5 | 1242.3 |
| 42.5° | 646.3 | 652.3 | 672.6 | 709.3 | 781.4 | 827.2 | 872.2 | 960.8 | 1045.6 | 1125.2 | 1199.5 |
| 45° | 602.7 | 611.0 | 627.5 | 671.0 | 745.4 | 791.1 | 835.4 | 921.8 | 999.8 | 1086.1 | 1160.5 |
| 47.5° | 566.7 | 566.0 | 587.7 | 635.8 | 701.8 | 749.1 | 789.6 | 872.2 | 958.5 | 1053.9 | 1132.7 |
| 50° | 510.4 | 522.4 | 545.7 | 593.7 | 656.0 | 707.8 | 743.9 | 825.7 | 918.8 | 1014.1 | 1110.2 |
| 52.5° | 469.9 | 477.4 | 505.2 | 549.4 | 614.8 | 657.5 | 699.6 | 790.4 | 891.7 | 1008.1 | 1094.4 |
| 55° | 426.3 | 436.1 | 464.6 | 508.9 | 581.7 | 623.0 | 665.8 | 767.1 | 885.0 | 999.8 | 1089.9 |
| 57.5° | 391.1 | 398.6 | 424.8 | 474.4 | 548.7 | 597.5 | 647.0 | 750.6 | 876.0 | 993.1 | 1115.4 |
| 60° | 353.5 | 361.0 | 394.8 | 444.4 | 523.2 | 574.2 | 621.5 | 737.1 | 873.0 | 1020.8 | 1188.2 |
| 62.5° | 319.8 | 330.3 | 361.0 | 412.8 | 492.4 | 543.4 | 598.2 | 732.6 | 907.5 | 1101.9 | 1277.5 |
| 65° | 290.5 | 301.7 | 335.5 | 387.3 | 465.4 | 528.4 | 594.5 | 771.6 | 976.5 | 1167.2 | 1298.6 |
| 67.5° | 262.7 | 274.7 | 309.3 | 362.5 | 461.6 | 540.4 | 630.5 | 835.4 | 1026.1 | 1192.7 | 1274.5 |
| 70° | 235.7 | 250.7 | 287.5 | 361.8 | 500.7 | 603.5 | 695.1 | 879.7 | 1051.6 | 1168.7 | 1218.2 |
| 72.5° | 211.7 | 229.7 | 282.2 | 388.1 | 564.5 | 662.8 | 745.4 | 896.2 | 1024.6 | 1108.7 | 1110.9 |
| 75° | 187.7 | 215.4 | 292.7 | 433.1 | 605.7 | 693.6 | 769.4 | 882.0 | 975.8 | 1016.3 | 990.8 |
| 77.5° | 167.4 | 208.7 | 309.3 | 454.1 | 623.0 | 705.6 | 764.1 | 847.4 | 897.7 | 898.5 | 860.2 |
| 80° | 141.9 | 193.7 | 304.7 | 454.1 | 614.0 | 690.6 | 740.9 | 785.9 | 799.4 | 788.9 | 761.1 |
| 82.5° | 111.1 | 168.9 | 285.2 | 430.9 | 584.7 | 652.3 | 690.6 | 710.1 | 701.1 | 689.8 | 659.0 |
| 85° | 77.3 | 135.9 | 252.2 | 400.1 | 537.4 | 593.7 | 625.3 | 625.3 | 602.0 | 569.0 | 553.2 |
| 87.5° | 45.0 | 99.1 | 216.9 | 352.8 | 477.4 | 527.7 | 550.2 | 514.2 | 478.1 | 460.9 | 448.9 |
| 90° | 21.8 | 66.1 | 174.9 | 310.8 | 411.3 | 439.9 | 440.6 | 393.3 | 368.6 | 371.6 | 372.3 |
| 92.5° | 18.0 | 39.0 | 137.4 | 232.7 | 305.5 | 319.8 | 319.8 | 300.2 | 295.0 | 301.0 | 316.8 |
| 95° | 15.0 | 16.5 | 72.1 | 154.6 | 208.7 | 222.2 | 229.7 | 234.2 | 248.5 | 265.7 | 279.2 |
| 97.5° | 12.8 | 12.8 | 22.5 | 83.3 | 139.6 | 161.4 | 176.4 | 187.7 | 201.2 | 208.7 | 218.4 |
| 100° | 10.5 | 10.5 | 12.0 | 27.8 | 78.1 | 98.3 | 109.6 | 117.1 | 129.1 | 141.9 | 156.1 |
| 102.5° | 9.0 | 9.0 | 9.0 | 14.3 | 29.3 | 38.3 | 48.0 | 64.6 | 78.1 | 94.6 | 107.3 |
| 105° | 7.5 | 7.5 | 7.5 | 9.0 | 18.0 | 23.3 | 30.8 | 44.3 | 56.3 | 70.6 | 81.1 |
| 107.5° | 6.0 | 6.0 | 6.0 | 6.0 | 12.0 | 17.3 | 21.8 | 33.0 | 45.8 | 57.0 | 65.3 |
| 110° | 4.5 | 4.5 | 4.5 | 5.3 | 7.5 | 11.3 | 15.0 | 24.8 | 34.5 | 44.3 | 53.3 |



TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 22.5° | 25° | 30° | 35° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-------|-----|------|------|------|------|
| 112.5° | 3.8 | 3.8 | 3.8 | 3.8 | 4.5 | 6.0 | 9.8 | 18.0 | 25.5 | 33.8 | 41.3 |
| 115° | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 4.5 | 11.3 | 18.0 | 24.0 | 32.3 |
| 117.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 6.0 | 12.8 | 18.8 | 24.0 |
| 120° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 2.3 | 7.5 | 13.5 | 18.8 |
| 122.5° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.8 | 3.0 | 8.3 | 13.5 |
| 125° | 1.5 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 3.8 | 8.3 |
| 127.5° | 0.8 | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 |
| 130° | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 | 782.9 |
| 2.5° | 794.2 | 796.4 | 797.9 | 805.4 | 800.9 | 809.2 | 801.7 | 800.9 | 804.7 | 806.9 |
| 5° | 839.2 | 850.4 | 859.5 | 870.0 | 867.0 | 872.2 | 871.5 | 871.5 | 888.0 | 882.7 |
| 7.5° | 912.7 | 924.0 | 940.5 | 957.0 | 953.3 | 972.8 | 975.0 | 978.1 | 977.3 | 985.6 |
| 10° | 988.6 | 1010.3 | 1026.8 | 1053.9 | 1051.6 | 1062.9 | 1077.9 | 1073.4 | 1085.4 | 1091.4 |
| 12.5° | 1056.9 | 1081.6 | 1107.9 | 1132.7 | 1131.2 | 1137.9 | 1144.7 | 1149.2 | 1155.9 | 1158.9 |
| 15° | 1107.9 | 1131.9 | 1154.4 | 1177.0 | 1174.7 | 1183.7 | 1187.5 | 1191.2 | 1200.2 | 1200.2 |
| 17.5° | 1139.4 | 1155.2 | 1176.2 | 1201.0 | 1210.0 | 1214.5 | 1210.0 | 1222.8 | 1231.8 | 1226.5 |
| 20° | 1146.2 | 1169.5 | 1202.5 | 1216.0 | 1231.0 | 1239.3 | 1243.8 | 1259.5 | 1258.8 | 1267.8 |
| 22.5° | 1159.7 | 1191.2 | 1222.0 | 1264.0 | 1267.8 | 1288.1 | 1301.6 | 1318.1 | 1327.8 | 1330.1 |
| 25° | 1182.2 | 1232.5 | 1277.5 | 1324.1 | 1340.6 | 1365.4 | 1393.9 | 1414.2 | 1430.7 | 1439.7 |
| 27.5° | 1228.8 | 1291.1 | 1359.4 | 1416.4 | 1426.2 | 1456.2 | 1497.5 | 1527.5 | 1543.3 | 1554.5 |
| 30° | 1288.1 | 1361.6 | 1432.2 | 1492.2 | 1520.0 | 1545.5 | 1583.8 | 1598.8 | 1624.3 | 1637.1 |
| 32.5° | 1330.8 | 1404.4 | 1479.5 | 1536.5 | 1562.8 | 1586.0 | 1607.8 | 1621.3 | 1626.6 | 1638.6 |
| 35° | 1351.1 | 1420.9 | 1498.2 | 1530.5 | 1549.3 | 1556.8 | 1566.5 | 1564.3 | 1565.0 | 1563.5 |
| 37.5° | 1340.6 | 1405.2 | 1452.4 | 1478.7 | 1482.5 | 1481.0 | 1469.7 | 1444.2 | 1425.4 | 1426.9 |
| 40° | 1312.8 | 1366.9 | 1396.9 | 1396.1 | 1387.1 | 1373.6 | 1348.1 | 1315.8 | 1303.8 | 1311.3 |
| 42.5° | 1278.3 | 1313.6 | 1318.1 | 1308.3 | 1286.6 | 1284.3 | 1248.3 | 1237.8 | 1225.8 | 1226.5 |
| 45° | 1234.8 | 1255.0 | 1261.8 | 1240.8 | 1228.0 | 1225.8 | 1209.2 | 1203.2 | 1205.5 | 1206.2 |
| 47.5° | 1195.0 | 1216.7 | 1220.5 | 1215.2 | 1212.2 | 1216.7 | 1222.8 | 1237.8 | 1239.3 | 1264.0 |
| 50° | 1170.2 | 1193.5 | 1219.0 | 1238.5 | 1246.0 | 1270.8 | 1304.6 | 1320.3 | 1339.1 | 1344.4 |
| 52.5° | 1165.0 | 1204.7 | 1266.3 | 1315.1 | 1351.1 | 1384.1 | 1424.7 | 1482.5 | 1501.2 | 1519.2 |
| 55° | 1180.0 | 1264.8 | 1363.1 | 1442.7 | 1502.0 | 1541.8 | 1597.3 | 1624.3 | 1643.8 | 1659.6 |
| 57.5° | 1249.8 | 1382.6 | 1502.0 | 1558.3 | 1576.3 | 1596.6 | 1607.1 | 1614.6 | 1620.6 | 1629.6 |
| 60° | 1362.4 | 1458.4 | 1522.2 | 1550.0 | 1556.8 | 1560.5 | 1553.8 | 1541.0 | 1529.0 | 1523.7 |
| 62.5° | 1396.9 | 1453.2 | 1478.7 | 1466.7 | 1454.7 | 1444.9 | 1387.9 | 1363.9 | 1340.6 | 1347.4 |
| 65° | 1375.1 | 1385.6 | 1356.4 | 1315.1 | 1279.8 | 1272.3 | 1221.2 | 1201.0 | 1171.0 | 1177.7 |
| 67.5° | 1289.6 | 1255.0 | 1213.7 | 1158.9 | 1141.7 | 1116.2 | 1072.6 | 1053.9 | 1038.9 | 1028.3 |
| 70° | 1204.0 | 1136.4 | 1081.6 | 1021.6 | 1002.8 | 983.3 | 929.3 | 903.7 | 896.2 | 892.5 |
| 72.5° | 1062.9 | 997.6 | 934.5 | 883.5 | 869.2 | 845.2 | 821.2 | 797.9 | 788.9 | 789.6 |
| 75° | 919.5 | 859.5 | 818.9 | 795.7 | 797.2 | 794.2 | 789.6 | 784.4 | 787.4 | 793.4 |
| 77.5° | 812.2 | 779.1 | 774.6 | 778.4 | 774.6 | 768.6 | 740.1 | 728.8 | 715.3 | 717.6 |
| 80° | 735.6 | 719.1 | 692.1 | 678.6 | 683.8 | 677.8 | 671.8 | 656.8 | 662.8 | 660.5 |
| 82.5° | 638.0 | 625.3 | 614.0 | 603.5 | 604.2 | 599.0 | 582.5 | 578.0 | 569.7 | 581.7 |
| 85° | 546.4 | 528.4 | 525.4 | 521.7 | 523.9 | 521.7 | 520.9 | 514.9 | 516.4 | 521.7 |
| 87.5° | 453.4 | 451.9 | 451.1 | 447.4 | 445.1 | 443.6 | 441.4 | 439.1 | 439.1 | 438.4 |
| 90° | 376.1 | 381.3 | 394.8 | 401.6 | 409.1 | 413.6 | 422.6 | 423.3 | 426.3 | 425.6 |
| 92.5° | 333.3 | 349.0 | 370.8 | 383.6 | 388.1 | 388.8 | 394.8 | 391.8 | 390.3 | 389.6 |
| 95° | 293.5 | 300.2 | 309.3 | 315.3 | 322.0 | 322.8 | 323.5 | 319.8 | 320.5 | 321.3 |
| 97.5° | 228.9 | 238.7 | 250.0 | 262.7 | 268.7 | 268.0 | 275.5 | 274.7 | 274.7 | 278.5 |
| 100° | 168.9 | 181.6 | 189.9 | 204.2 | 201.2 | 198.2 | 203.4 | 200.4 | 213.2 | 208.7 |
| 102.5° | 117.8 | 122.4 | 129.9 | 131.4 | 132.1 | 130.6 | 132.1 | 129.1 | 129.1 | 127.6 |
| 105° | 90.1 | 96.8 | 103.6 | 108.1 | 108.8 | 108.8 | 109.6 | 107.3 | 107.3 | 106.6 |
| 107.5° | 74.3 | 81.1 | 86.3 | 89.3 | 93.1 | 92.3 | 93.8 | 93.1 | 93.8 | 92.3 |
| 110° | 60.0 | 66.8 | 72.8 | 75.8 | 78.8 | 78.8 | 79.6 | 79.6 | 78.8 | 78.8 |



TEST NUMBER: P233278

CATALOG NUMBER: 4VT3-LD5-6-P-UNV-L840-CD1-U

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 67.5° | 70° | 75° | 80° | 85° | 90° |
|--------|------|------|------|------|-------|------|------|------|------|------|
| 112.5° | 48.8 | 54.8 | 59.3 | 63.8 | 66.1 | 66.8 | 66.8 | 67.6 | 67.6 | 67.6 |
| 115° | 38.3 | 44.3 | 50.3 | 54.0 | 56.3 | 57.0 | 57.8 | 57.0 | 56.3 | 56.3 |
| 117.5° | 30.0 | 35.3 | 40.5 | 45.0 | 47.3 | 48.0 | 49.5 | 48.8 | 48.8 | 48.0 |
| 120° | 24.0 | 28.5 | 33.8 | 37.5 | 39.0 | 40.5 | 42.0 | 41.3 | 40.5 | 41.3 |
| 122.5° | 18.8 | 22.5 | 27.0 | 30.8 | 32.3 | 33.0 | 33.8 | 33.0 | 33.8 | 33.0 |
| 125° | 13.5 | 17.3 | 21.0 | 24.0 | 25.5 | 27.0 | 27.8 | 27.0 | 27.0 | 27.0 |
| 127.5° | 7.5 | 11.3 | 15.0 | 18.0 | 19.5 | 20.3 | 21.8 | 21.0 | 20.3 | 20.3 |
| 130° | 2.3 | 6.8 | 10.5 | 12.8 | 14.3 | 15.8 | 15.8 | 15.8 | 15.0 | 14.3 |
| 132.5° | 0.0 | 1.5 | 5.3 | 8.3 | 9.8 | 10.5 | 10.5 | 10.5 | 9.8 | 9.8 |
| 135° | 0.0 | 0.0 | 0.8 | 3.0 | 4.5 | 5.3 | 6.0 | 5.3 | 5.3 | 4.5 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)