

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621652

Luminaire Tested: VLT-FA-0U-050D-930-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-21)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FA-0U-050D-930-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - ASYMMETRIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

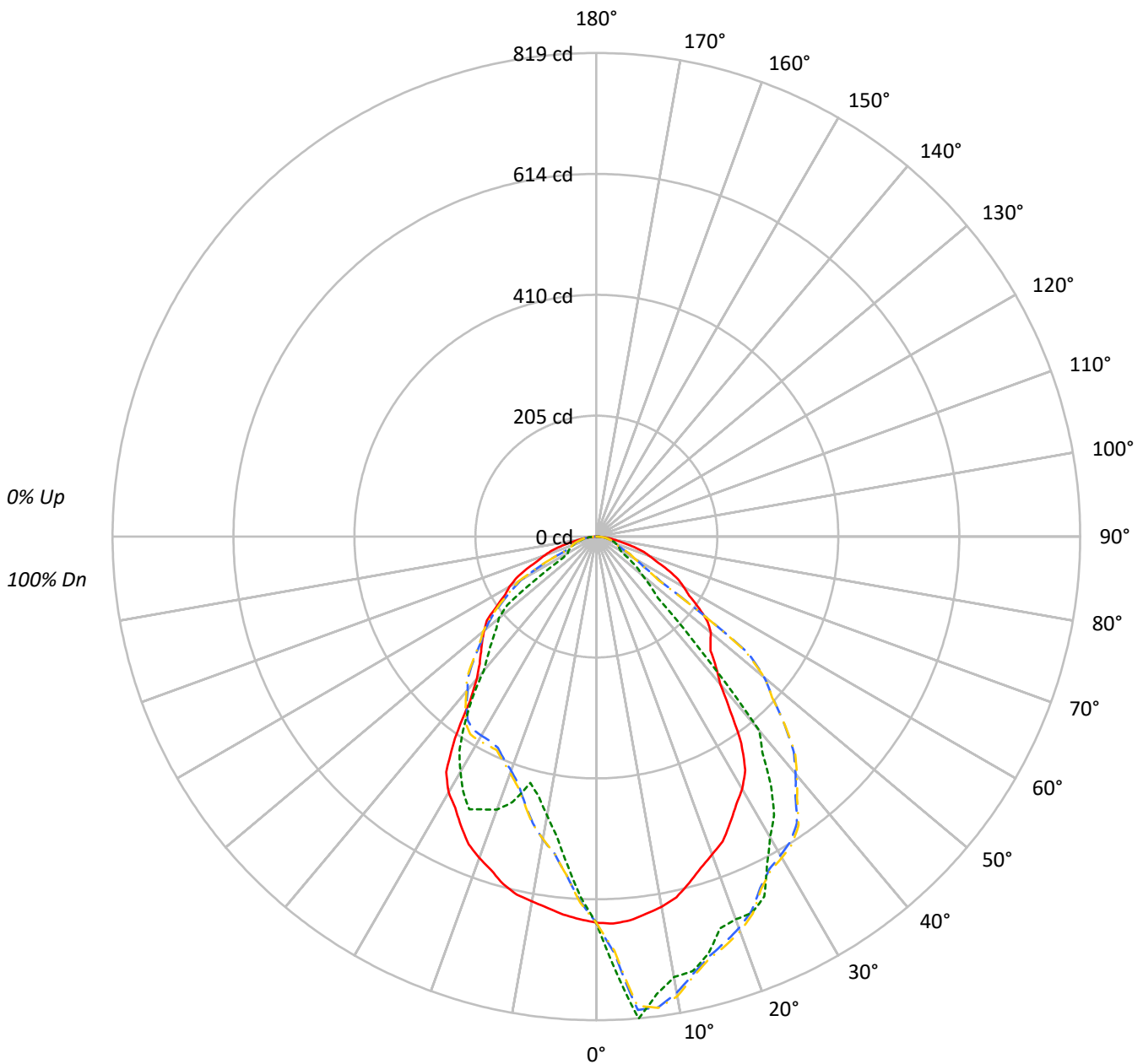
Lumens per Lamp: N/A
Luminaire Lumens: 1348.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.4
Input Voltage (V): 120
Input Current (A_{in}): 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: 24 FT



TEST NUMBER: P621652
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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 98 | 95 | 96 | 94 | 92 | 93 | 91 | 90 | | | | | 88 | | | | |
| 2 | 102 | 95 | 89 | 85 | 100 | 93 | 88 | 84 | 90 | 86 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | | | | | 76 | | | | |
| 3 | 94 | 85 | 78 | 73 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 68 | | | | | 66 | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | | | | | 58 | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | | | | | 52 | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | | | | | 46 | | | | |
| 7 | 70 | 58 | 50 | 44 | 68 | 57 | 49 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 53 | 47 | 43 | | | | | 41 | | | | |
| 8 | 66 | 53 | 45 | 40 | 64 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | | | | | 37 | | | | |
| 9 | 61 | 49 | 41 | 36 | 60 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | | | | | 34 | | | | |
| 10 | 58 | 45 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | | | | | 31 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° | 270° |
|-----|------|------|------|------|
| 0° | 4692 | 4692 | 4692 | 4692 |
| 5° | 4700 | 5902 | 4628 | 4025 |
| 10° | 4638 | 5520 | 4570 | 3494 |
| 15° | 4511 | 5435 | 4526 | 3206 |
| 20° | 4373 | 5267 | 4424 | 3759 |
| 25° | 4239 | 5324 | 4287 | 4034 |
| 30° | 4089 | 4871 | 4144 | 3808 |
| 35° | 3747 | 4515 | 3653 | 3414 |
| 40° | 3053 | 4019 | 2947 | 2778 |
| 45° | 2775 | 1492 | 2801 | 2531 |
| 50° | 2821 | 1136 | 2770 | 2406 |
| 55° | 2662 | 882 | 2571 | 1440 |
| 60° | 2453 | 677 | 2434 | 802 |
| 65° | 2258 | 700 | 2214 | 847 |
| 70° | 2010 | 739 | 1953 | 879 |
| 75° | 1716 | 774 | 1641 | 904 |
| 80° | 1293 | 798 | 1211 | 934 |
| 85° | 873 | 708 | 766 | 873 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5137 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.1 | 4.7 |
| 10°-20° | 172.8 | 12.8 |
| 20°-30° | 258.5 | 19.2 |
| 30°-40° | 294.0 | 21.8 |
| 40°-50° | 251.4 | 18.7 |
| 50°-60° | 169.6 | 12.6 |
| 60°-70° | 87.5 | 6.5 |
| 70°-80° | 39.5 | 2.9 |
| 80°-90° | 11.8 | 0.9 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 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° | 494.3 | 36.7 |
| 0°-40° | 788.3 | 58.5 |
| 0°-60° | 1209.3 | 89.7 |
| 0°-90° | 1348.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1348.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 90° | 180° | 270° | 360° | Flux |
|-----|-----|-----|------|------|------|------|
| 0° | 654 | 654 | 654 | 654 | 654 | |
| 5° | 652 | 819 | 642 | 559 | 652 | 62 |
| 15° | 607 | 732 | 609 | 432 | 607 | 171 |
| 25° | 535 | 672 | 541 | 510 | 535 | 246 |
| 35° | 428 | 515 | 417 | 390 | 428 | 261 |
| 45° | 273 | 147 | 276 | 249 | 273 | 217 |
| 55° | 213 | 70 | 206 | 115 | 213 | 190 |
| 65° | 133 | 41 | 130 | 50 | 133 | 131 |
| 75° | 62 | 28 | 59 | 33 | 62 | 66 |
| 85° | 11 | 9 | 9 | 11 | 11 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P621652

CATALOG NUMBER: VLT-FA-OU-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° | 202.5° | 225° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 |
| 2.5° | 655.9 | 678.3 | 706.5 | 725.8 | 734.1 | 725.8 | 701.7 | 678.1 | 648.5 | 639.6 | 618.7 |
| 5° | 652.5 | 721.4 | 804.8 | 814.8 | 819.4 | 814.8 | 797.4 | 717.3 | 642.5 | 610.6 | 576.0 |
| 7.5° | 644.5 | 765.0 | 803.8 | 781.3 | 781.5 | 785.6 | 805.0 | 761.3 | 634.1 | 584.0 | 541.5 |
| 10° | 636.5 | 789.3 | 784.1 | 751.7 | 757.5 | 754.9 | 790.1 | 784.6 | 627.2 | 569.3 | 520.8 |
| 12.5° | 625.8 | 796.9 | 758.1 | 747.4 | 753.8 | 750.2 | 761.9 | 792.7 | 621.3 | 558.8 | 496.8 |
| 15° | 607.2 | 786.1 | 736.3 | 731.6 | 731.6 | 734.8 | 739.6 | 789.4 | 609.2 | 539.6 | 467.6 |
| 17.5° | 588.1 | 764.4 | 721.1 | 698.0 | 695.5 | 699.8 | 726.5 | 770.0 | 592.1 | 518.4 | 439.2 |
| 20° | 572.6 | 749.5 | 705.7 | 678.6 | 689.7 | 679.9 | 711.6 | 753.6 | 579.3 | 505.2 | 421.7 |
| 22.5° | 558.8 | 731.0 | 686.0 | 674.5 | 689.2 | 674.7 | 691.4 | 735.0 | 564.4 | 490.3 | 408.4 |
| 25° | 535.4 | 699.9 | 656.4 | 667.2 | 672.4 | 667.2 | 659.1 | 702.7 | 541.4 | 471.1 | 394.4 |
| 27.5° | 512.1 | 667.2 | 634.4 | 641.6 | 625.7 | 637.9 | 638.0 | 667.3 | 517.7 | 448.9 | 390.1 |
| 30° | 493.5 | 644.4 | 623.2 | 612.6 | 587.9 | 607.4 | 627.8 | 644.5 | 500.1 | 434.5 | 389.1 |
| 32.5° | 469.0 | 623.5 | 612.0 | 575.6 | 559.7 | 573.0 | 617.2 | 623.1 | 473.0 | 421.4 | 388.0 |
| 35° | 427.7 | 594.1 | 591.9 | 531.7 | 515.4 | 527.8 | 596.6 | 592.6 | 417.0 | 400.8 | 379.8 |
| 37.5° | 372.2 | 567.9 | 553.5 | 487.3 | 461.4 | 484.1 | 557.9 | 565.1 | 350.8 | 381.9 | 360.5 |
| 40° | 325.9 | 550.2 | 524.8 | 454.3 | 429.0 | 451.1 | 528.1 | 548.7 | 314.6 | 368.6 | 339.2 |
| 42.5° | 299.8 | 534.6 | 494.4 | 419.4 | 262.4 | 414.1 | 497.8 | 532.6 | 292.2 | 351.4 | 320.6 |
| 45° | 273.4 | 506.2 | 450.3 | 232.2 | 147.0 | 221.1 | 450.9 | 499.1 | 276.0 | 325.4 | 292.0 |
| 47.5° | 261.8 | 471.2 | 404.1 | 139.8 | 124.1 | 135.8 | 403.7 | 463.5 | 261.9 | 299.4 | 264.7 |
| 50° | 252.7 | 449.1 | 371.1 | 123.2 | 101.8 | 118.7 | 371.8 | 441.9 | 248.1 | 281.9 | 246.1 |
| 52.5° | 237.8 | 422.8 | 323.8 | 102.1 | 87.9 | 99.6 | 315.9 | 414.5 | 233.7 | 262.8 | 222.7 |
| 55° | 212.8 | 372.2 | 135.0 | 80.3 | 70.5 | 77.0 | 128.4 | 359.6 | 205.5 | 232.8 | 195.5 |
| 57.5° | 186.4 | 316.8 | 94.7 | 62.5 | 54.7 | 61.8 | 94.0 | 304.1 | 182.9 | 197.2 | 170.5 |
| 60° | 170.9 | 279.5 | 77.2 | 52.4 | 47.2 | 51.8 | 76.5 | 268.4 | 169.6 | 173.5 | 147.6 |
| 62.5° | 155.5 | 241.7 | 63.8 | 46.1 | 44.6 | 45.5 | 63.7 | 229.6 | 153.1 | 153.4 | 104.0 |
| 65° | 133.0 | 183.1 | 47.2 | 41.9 | 41.2 | 41.2 | 45.9 | 176.5 | 130.4 | 126.5 | 59.9 |
| 67.5° | 110.1 | 131.5 | 37.9 | 38.6 | 37.9 | 37.9 | 37.2 | 127.8 | 107.5 | 100.8 | 45.2 |
| 70° | 95.8 | 101.0 | 35.2 | 35.9 | 35.2 | 35.2 | 34.6 | 98.3 | 93.1 | 78.2 | 42.6 |
| 72.5° | 81.9 | 68.9 | 32.6 | 32.7 | 32.6 | 32.6 | 31.9 | 64.7 | 79.3 | 55.0 | 38.8 |
| 75° | 61.9 | 34.5 | 27.9 | 27.9 | 27.9 | 27.9 | 27.3 | 33.2 | 59.2 | 35.8 | 33.3 |
| 77.5° | 43.0 | 22.8 | 23.1 | 23.0 | 23.0 | 22.5 | 22.5 | 22.6 | 40.4 | 24.7 | 26.9 |
| 80° | 31.3 | 18.9 | 20.0 | 19.3 | 19.3 | 19.3 | 19.3 | 18.2 | 29.3 | 20.8 | 22.6 |
| 82.5° | 22.2 | 15.1 | 16.2 | 15.6 | 15.6 | 15.6 | 15.6 | 14.9 | 20.2 | 17.0 | 18.4 |
| 85° | 10.6 | 10.0 | 10.6 | 9.3 | 8.6 | 9.3 | 10.0 | 10.0 | 9.3 | 11.3 | 12.0 |
| 87.5° | 3.2 | 4.8 | 4.3 | 3.2 | 3.2 | 3.2 | 3.7 | 4.2 | 2.7 | 5.3 | 4.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P621652

CATALOG NUMBER: VLT-FA-OU-050D-930-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 247.5° | 270° | 292.5° | 315° | 337.5° | 360° |
|-------|--------|-------|--------|-------|--------|-------|
| 0° | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 | 653.8 |
| 2.5° | 611.2 | 610.7 | 611.7 | 620.8 | 639.3 | 655.9 |
| 5° | 556.7 | 558.7 | 560.6 | 576.0 | 608.2 | 652.5 |
| 7.5° | 514.8 | 512.0 | 516.4 | 541.4 | 581.0 | 644.5 |
| 10° | 486.0 | 479.5 | 486.0 | 520.1 | 566.3 | 636.5 |
| 12.5° | 458.9 | 450.8 | 460.9 | 498.3 | 554.1 | 625.8 |
| 15° | 423.8 | 431.6 | 427.1 | 468.9 | 535.7 | 607.2 |
| 17.5° | 432.1 | 471.4 | 440.5 | 443.3 | 517.4 | 588.1 |
| 20° | 451.8 | 492.2 | 464.9 | 426.3 | 505.7 | 572.6 |
| 22.5° | 469.7 | 500.1 | 475.4 | 412.0 | 493.9 | 558.8 |
| 25° | 483.4 | 509.5 | 482.1 | 399.1 | 476.9 | 535.4 |
| 27.5° | 484.1 | 487.8 | 484.4 | 398.0 | 455.8 | 512.1 |
| 30° | 475.2 | 459.6 | 473.9 | 399.1 | 440.8 | 493.5 |
| 32.5° | 449.6 | 431.9 | 444.1 | 396.9 | 425.7 | 469.0 |
| 35° | 413.2 | 389.7 | 406.6 | 385.8 | 402.3 | 427.7 |
| 37.5° | 374.7 | 345.0 | 368.5 | 363.7 | 382.3 | 372.2 |
| 40° | 348.7 | 296.6 | 343.5 | 341.9 | 371.4 | 325.9 |
| 42.5° | 315.3 | 271.1 | 310.6 | 324.3 | 359.4 | 299.8 |
| 45° | 254.6 | 249.4 | 252.0 | 294.6 | 333.8 | 273.4 |
| 47.5° | 232.8 | 229.3 | 231.5 | 267.6 | 305.0 | 261.8 |
| 50° | 220.0 | 215.5 | 218.7 | 250.1 | 286.5 | 252.7 |
| 52.5° | 202.3 | 189.9 | 201.0 | 226.1 | 267.5 | 237.8 |
| 55° | 152.1 | 115.1 | 151.5 | 198.9 | 238.8 | 212.8 |
| 57.5° | 89.3 | 66.5 | 87.3 | 173.1 | 202.4 | 186.4 |
| 60° | 60.4 | 55.9 | 61.1 | 152.3 | 178.1 | 170.9 |
| 62.5° | 55.2 | 53.7 | 55.3 | 106.0 | 156.4 | 155.5 |
| 65° | 50.5 | 49.9 | 50.5 | 61.2 | 129.1 | 133.0 |
| 67.5° | 45.7 | 45.1 | 46.3 | 47.0 | 101.9 | 110.1 |
| 70° | 42.6 | 41.9 | 42.6 | 43.2 | 78.2 | 95.8 |
| 72.5° | 38.8 | 38.2 | 38.8 | 39.5 | 55.0 | 81.9 |
| 75° | 33.2 | 32.6 | 33.2 | 33.9 | 36.5 | 61.9 |
| 77.5° | 26.9 | 26.9 | 27.5 | 27.5 | 25.5 | 43.0 |
| 80° | 22.6 | 22.6 | 23.3 | 23.3 | 22.2 | 31.3 |
| 82.5° | 18.3 | 17.8 | 19.0 | 19.6 | 18.3 | 22.2 |
| 85° | 11.3 | 10.6 | 11.9 | 12.6 | 11.9 | 10.6 |
| 87.5° | 4.2 | 3.7 | 4.8 | 5.9 | 5.8 | 3.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)