

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: STREETWORKS

Report Number: P148546

Luminaire Tested: **AVM-F01-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148546
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-F01-LED-E-U-5XQ-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2694 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 25.9
Input Voltage (V): NR
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: 28.75 FT

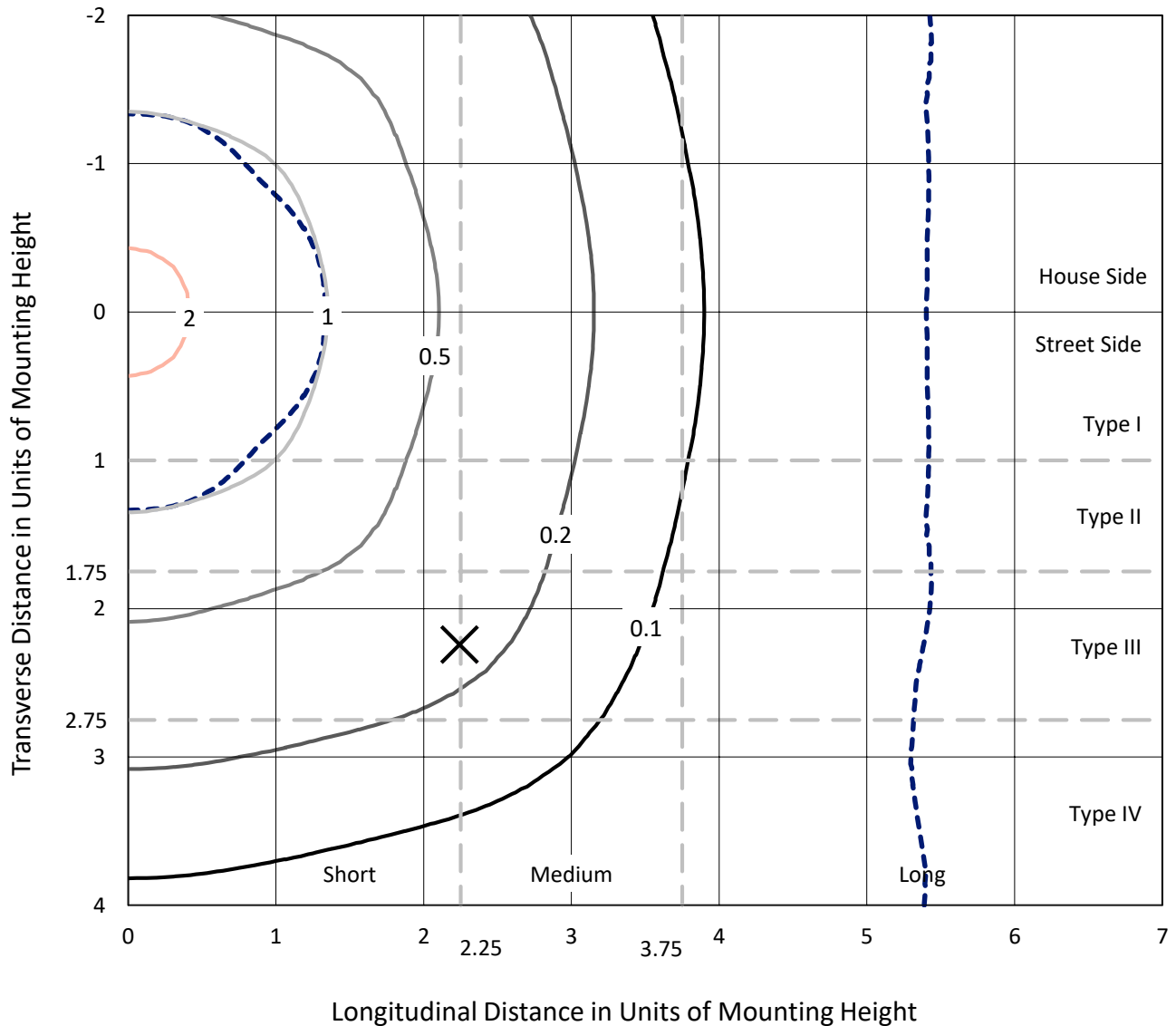




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Iso-Footcandle Lines of Horizontal Illumination

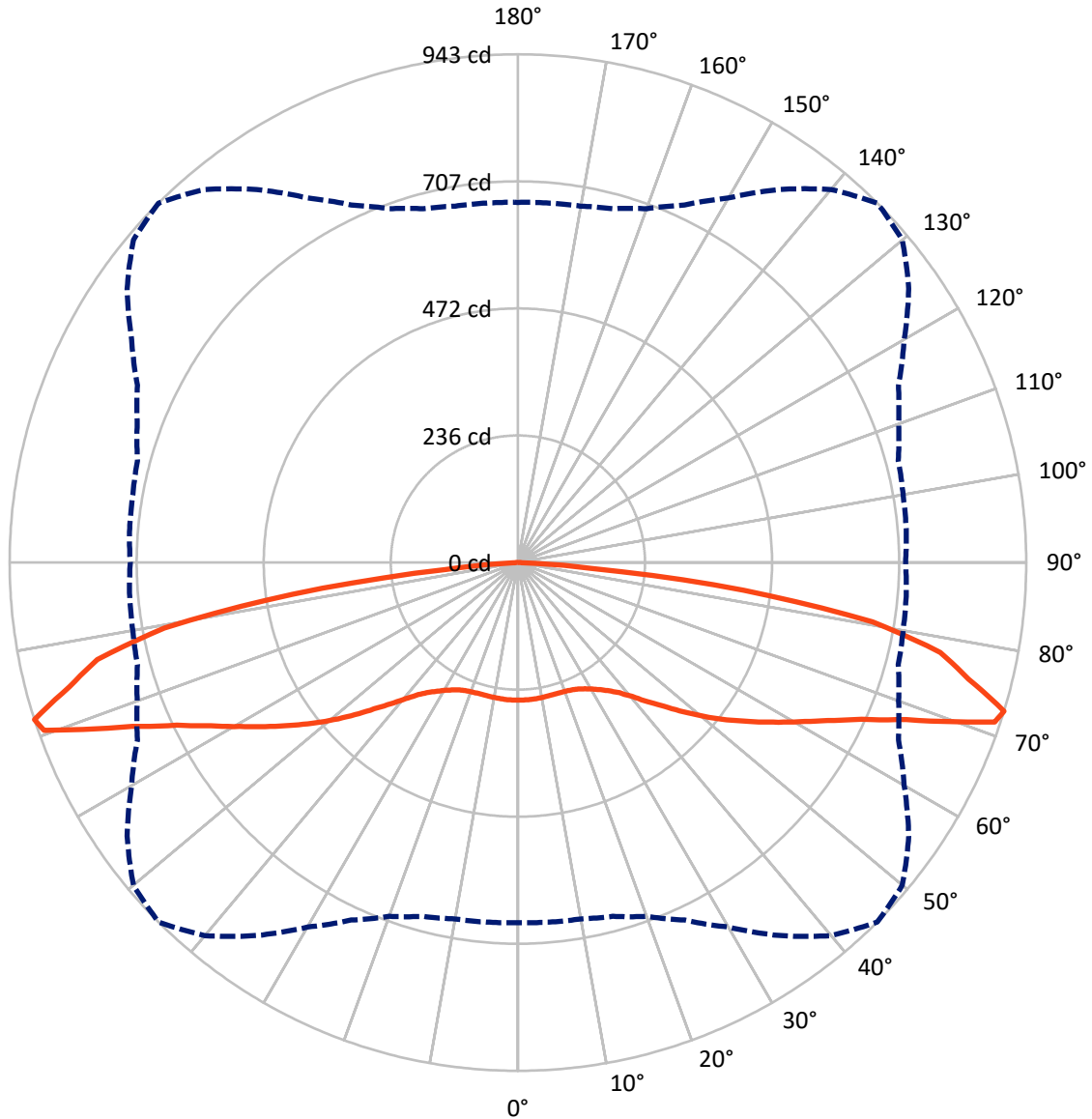
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1347.0 | 0.0 | 1347.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1347.0 | 0.0 | 1347.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2694.0 | 0.0 | 2694.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.3 | 0.9 |
| 10°-20° | 72.0 | 2.7 |
| 20°-30° | 120.5 | 4.5 |
| 30°-40° | 183.7 | 6.8 |
| 40°-50° | 293.3 | 10.9 |
| 50°-60° | 451.0 | 16.7 |
| 60°-70° | 656.7 | 24.4 |
| 70°-80° | 739.8 | 27.5 |
| 80°-90° | 152.7 | 5.7 |
| 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°-90° | 2694.0 | 100.0 |
| 0°-180° | 2694.0 | 100.0 |



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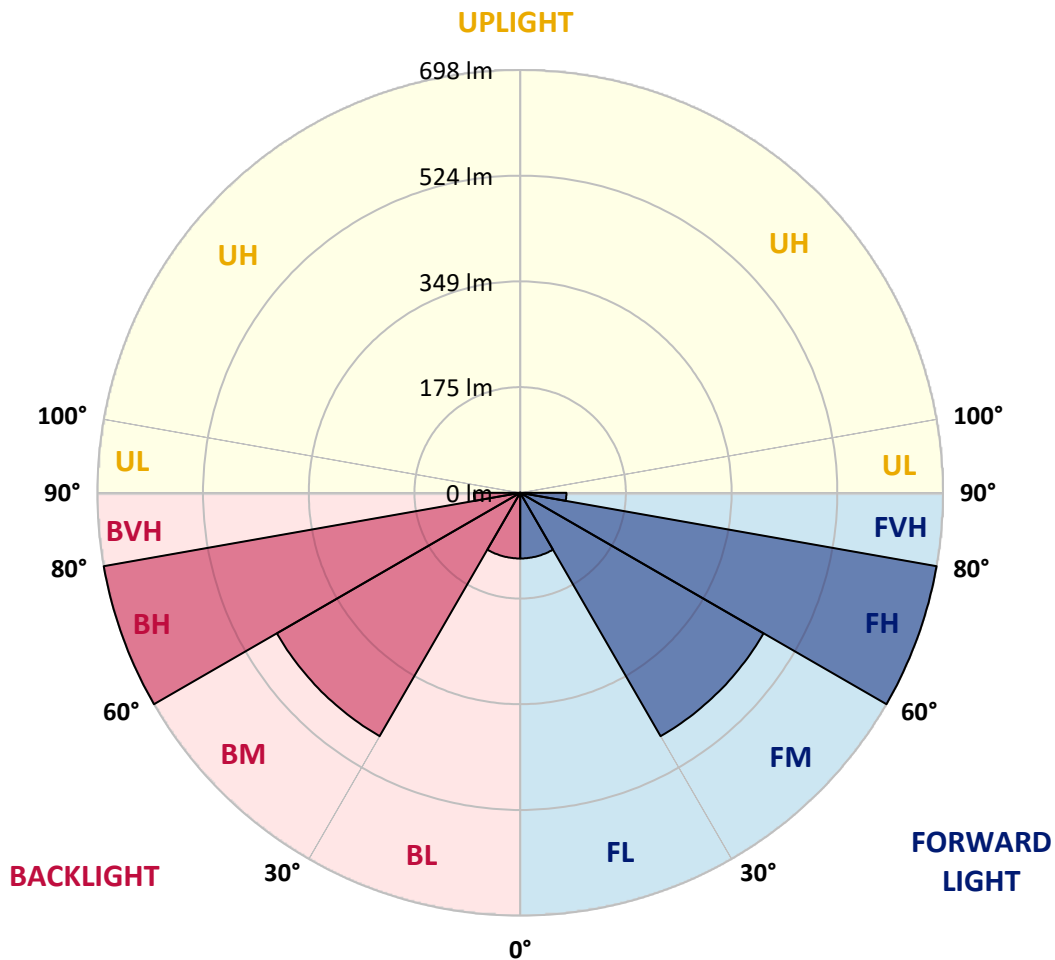
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 108.4 | 4.0 | | | |
| FM | (30°-60°) | 464.0 | 17.2 | | | |
| FH | (60°-80°) | 698.2 | 25.9 | | | G1/1800 |
| FVH | (80°-90°) | 76.4 | 2.8 | | | G1/100 |
| BL | (0°-30°) | 108.4 | 4.0 | B0/110 | | |
| BM | (30°-60°) | 464.0 | 17.2 | B1/1000 | | |
| BH | (60°-80°) | 698.2 | 25.9 | B2/1000 | | G1/1800 |
| BVH | (80°-90°) | 76.4 | 2.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 |
| 2.5° | 255.6 | 255.8 | 255.7 | 255.6 | 255.7 | 255.6 | 255.5 | 255.4 | 254.9 | 255.2 | 255.6 |
| 5° | 255.6 | 255.5 | 255.4 | 255.4 | 255.4 | 255.6 | 255.4 | 255.2 | 255.1 | 255.2 | 255.0 |
| 7.5° | 255.6 | 255.2 | 255.1 | 255.0 | 255.1 | 255.2 | 255.0 | 254.7 | 254.9 | 254.7 | 254.4 |
| 10° | 255.1 | 254.9 | 255.0 | 254.7 | 254.8 | 254.7 | 254.4 | 254.2 | 254.3 | 254.2 | 253.8 |
| 12.5° | 255.2 | 254.9 | 254.8 | 254.7 | 254.6 | 254.6 | 254.2 | 253.8 | 253.9 | 253.8 | 253.4 |
| 15° | 255.2 | 255.0 | 255.0 | 254.7 | 254.6 | 254.5 | 254.1 | 253.9 | 253.9 | 253.7 | 253.3 |
| 17.5° | 255.4 | 255.2 | 255.2 | 254.9 | 254.8 | 254.7 | 254.2 | 254.0 | 254.2 | 253.8 | 253.5 |
| 20° | 255.8 | 255.7 | 255.8 | 255.6 | 255.2 | 255.2 | 254.9 | 254.8 | 254.8 | 254.7 | 254.0 |
| 22.5° | 256.6 | 256.6 | 256.8 | 256.7 | 256.6 | 256.7 | 256.4 | 256.4 | 256.5 | 256.5 | 255.9 |
| 25° | 259.0 | 259.0 | 259.2 | 259.1 | 259.2 | 259.7 | 259.5 | 259.4 | 259.8 | 259.8 | 259.1 |
| 27.5° | 263.6 | 263.4 | 263.6 | 263.8 | 264.0 | 264.7 | 264.6 | 264.8 | 265.4 | 265.2 | 264.7 |
| 30° | 268.8 | 268.7 | 269.0 | 269.4 | 269.7 | 270.7 | 270.3 | 271.3 | 271.8 | 272.2 | 271.8 |
| 32.5° | 276.5 | 276.4 | 277.1 | 277.4 | 278.0 | 279.0 | 279.1 | 280.0 | 280.6 | 281.3 | 280.8 |
| 35° | 286.6 | 286.5 | 286.9 | 287.4 | 288.2 | 289.1 | 289.5 | 290.6 | 291.6 | 292.1 | 291.2 |
| 37.5° | 302.1 | 301.4 | 302.3 | 302.5 | 303.2 | 303.4 | 304.4 | 305.8 | 306.8 | 306.7 | 306.1 |
| 40° | 323.2 | 323.0 | 322.7 | 322.2 | 323.2 | 323.6 | 323.6 | 325.5 | 327.2 | 326.9 | 326.8 |
| 42.5° | 347.7 | 347.1 | 346.7 | 346.6 | 347.2 | 347.4 | 349.6 | 351.0 | 352.2 | 352.5 | 352.2 |
| 45° | 374.2 | 373.5 | 373.6 | 373.4 | 373.6 | 374.5 | 375.8 | 378.4 | 380.6 | 380.7 | 379.5 |
| 47.5° | 402.5 | 400.5 | 402.0 | 399.9 | 401.2 | 401.9 | 405.1 | 408.9 | 412.9 | 413.6 | 412.5 |
| 50° | 431.3 | 431.1 | 431.0 | 430.5 | 431.2 | 432.7 | 436.6 | 442.6 | 446.4 | 449.0 | 447.2 |
| 52.5° | 462.8 | 461.8 | 461.2 | 460.5 | 461.1 | 464.2 | 469.6 | 474.8 | 481.7 | 484.6 | 482.3 |
| 55° | 493.4 | 493.0 | 491.2 | 491.2 | 492.5 | 497.2 | 503.2 | 509.6 | 517.0 | 520.2 | 519.4 |
| 57.5° | 524.9 | 522.9 | 522.3 | 521.4 | 524.1 | 528.6 | 535.8 | 547.4 | 555.1 | 558.8 | 556.6 |
| 60° | 555.7 | 554.1 | 552.9 | 552.6 | 554.5 | 560.7 | 571.2 | 585.1 | 594.6 | 599.4 | 596.0 |
| 62.5° | 588.7 | 587.7 | 586.3 | 584.7 | 588.6 | 596.6 | 609.6 | 625.0 | 639.0 | 644.9 | 639.8 |
| 65° | 629.8 | 627.8 | 626.2 | 624.2 | 627.3 | 637.4 | 653.6 | 675.3 | 694.2 | 701.1 | 697.4 |
| 67.5° | 673.2 | 671.2 | 671.4 | 670.1 | 675.8 | 689.6 | 710.7 | 740.1 | 765.4 | 777.2 | 770.3 |
| 70° | 711.0 | 712.0 | 712.3 | 717.5 | 727.2 | 748.4 | 783.4 | 829.5 | 867.8 | 885.8 | 878.4 |
| 71° | 699.8 | 702.2 | 705.8 | 711.1 | 727.9 | 753.0 | 800.8 | 856.6 | 902.3 | 932.8 | 922.6 |
| 72.5° | 668.2 | 669.6 | 671.4 | 679.6 | 698.6 | 731.8 | 781.0 | 844.8 | 903.6 | 943.1 | 931.2 |
| 75° | 622.4 | 623.8 | 624.4 | 630.2 | 647.4 | 676.4 | 721.4 | 778.0 | 829.9 | 863.5 | 860.2 |
| 77.5° | 553.4 | 553.7 | 558.6 | 567.4 | 586.8 | 619.9 | 667.4 | 726.1 | 774.9 | 801.0 | 784.4 |
| 80° | 397.4 | 394.8 | 399.8 | 411.2 | 435.2 | 473.2 | 521.7 | 588.8 | 642.9 | 667.3 | 641.7 |
| 82.5° | 151.2 | 159.4 | 172.3 | 191.1 | 199.2 | 241.4 | 286.8 | 326.1 | 371.7 | 422.7 | 409.9 |
| 85° | 16.2 | 18.3 | 22.9 | 28.4 | 35.9 | 49.7 | 68.7 | 93.7 | 115.6 | 135.8 | 120.6 |
| 87.5° | 6.1 | 6.2 | 6.9 | 8.0 | 8.2 | 8.5 | 9.0 | 10.5 | 9.8 | 8.5 | 6.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: AVM-F01-LED-E-U-5XQ-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 | 255.3 |
| 2.5° | 255.3 | 255.3 | 255.2 | 255.3 | 255.3 | 255.0 | 255.1 | 255.0 |
| 5° | 255.2 | 255.0 | 255.0 | 255.1 | 255.0 | 255.2 | 255.0 | 255.1 |
| 7.5° | 254.8 | 254.4 | 254.6 | 254.6 | 254.4 | 254.6 | 254.5 | 254.4 |
| 10° | 254.2 | 253.6 | 253.8 | 253.7 | 253.6 | 253.7 | 253.7 | 253.7 |
| 12.5° | 253.5 | 253.2 | 253.2 | 253.2 | 253.1 | 253.3 | 253.2 | 253.3 |
| 15° | 253.3 | 252.8 | 252.7 | 252.6 | 252.6 | 252.8 | 252.8 | 253.0 |
| 17.5° | 253.2 | 252.5 | 252.4 | 252.3 | 252.4 | 252.6 | 252.7 | 252.6 |
| 20° | 253.6 | 253.1 | 253.0 | 252.8 | 252.7 | 253.1 | 253.0 | 253.0 |
| 22.5° | 255.6 | 254.9 | 254.8 | 254.3 | 254.0 | 254.2 | 254.1 | 254.1 |
| 25° | 258.8 | 257.9 | 257.7 | 256.8 | 256.3 | 256.3 | 256.1 | 256.0 |
| 27.5° | 264.5 | 263.2 | 262.9 | 262.3 | 261.5 | 261.7 | 261.2 | 261.2 |
| 30° | 271.2 | 270.0 | 269.0 | 268.1 | 267.2 | 266.8 | 266.4 | 266.3 |
| 32.5° | 279.8 | 278.6 | 277.4 | 276.2 | 274.9 | 274.5 | 273.6 | 273.2 |
| 35° | 290.5 | 288.8 | 287.4 | 286.6 | 285.3 | 284.7 | 284.1 | 284.8 |
| 37.5° | 305.3 | 303.4 | 302.6 | 301.7 | 300.8 | 299.9 | 300.1 | 299.8 |
| 40° | 326.0 | 324.2 | 323.4 | 321.8 | 321.6 | 320.5 | 321.2 | 320.4 |
| 42.5° | 351.5 | 348.1 | 347.6 | 346.3 | 345.9 | 345.3 | 345.6 | 345.0 |
| 45° | 379.2 | 376.2 | 375.6 | 373.5 | 373.6 | 372.2 | 372.7 | 372.7 |
| 47.5° | 410.4 | 407.2 | 404.6 | 403.1 | 402.6 | 401.6 | 402.2 | 402.1 |
| 50° | 442.6 | 438.3 | 435.4 | 432.5 | 431.2 | 431.6 | 430.6 | 432.3 |
| 52.5° | 477.2 | 470.8 | 466.7 | 463.9 | 461.5 | 462.0 | 462.2 | 462.6 |
| 55° | 513.0 | 504.8 | 498.8 | 495.2 | 493.0 | 493.2 | 493.9 | 494.4 |
| 57.5° | 549.0 | 538.7 | 530.7 | 525.3 | 524.0 | 524.6 | 524.6 | 524.5 |
| 60° | 586.3 | 574.0 | 563.7 | 557.6 | 556.3 | 556.0 | 558.7 | 557.8 |
| 62.5° | 626.4 | 611.7 | 600.9 | 593.2 | 591.3 | 592.6 | 595.1 | 594.5 |
| 65° | 679.6 | 659.2 | 645.3 | 637.6 | 634.6 | 635.8 | 639.1 | 639.0 |
| 67.5° | 748.1 | 719.6 | 701.3 | 691.4 | 689.2 | 690.7 | 692.6 | 694.3 |
| 70° | 850.6 | 809.8 | 783.8 | 762.4 | 753.2 | 751.4 | 753.2 | 753.4 |
| 71° | 886.7 | 839.9 | 798.3 | 772.2 | 757.1 | 750.8 | 751.3 | 748.1 |
| 72.5° | 885.2 | 827.6 | 778.9 | 751.6 | 730.7 | 725.6 | 723.1 | 719.3 |
| 75° | 825.6 | 773.6 | 731.4 | 701.6 | 681.4 | 675.4 | 671.1 | 670.8 |
| 77.5° | 748.7 | 710.3 | 663.8 | 632.3 | 607.8 | 597.8 | 593.4 | 593.2 |
| 80° | 601.8 | 544.4 | 510.4 | 491.4 | 461.9 | 453.3 | 444.3 | 440.9 |
| 82.5° | 364.0 | 284.4 | 231.2 | 205.5 | 191.2 | 157.5 | 141.3 | 133.7 |
| 85° | 84.8 | 60.2 | 41.5 | 27.3 | 19.6 | 15.6 | 12.0 | 10.6 |
| 87.5° | 5.7 | 4.5 | 4.0 | 3.2 | 2.5 | 2.4 | 1.5 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)