

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: P148480

Luminaire Tested: **TMU-E01-LED-E-U-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148480
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: TMU-E01-LED-E-U-5XQ
Description: TALON MEDIUM LED AREA LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3180.4 lumens
Efficiency: N/A
Efficacy: 128.8 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): 24.7
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: 28.75 FT

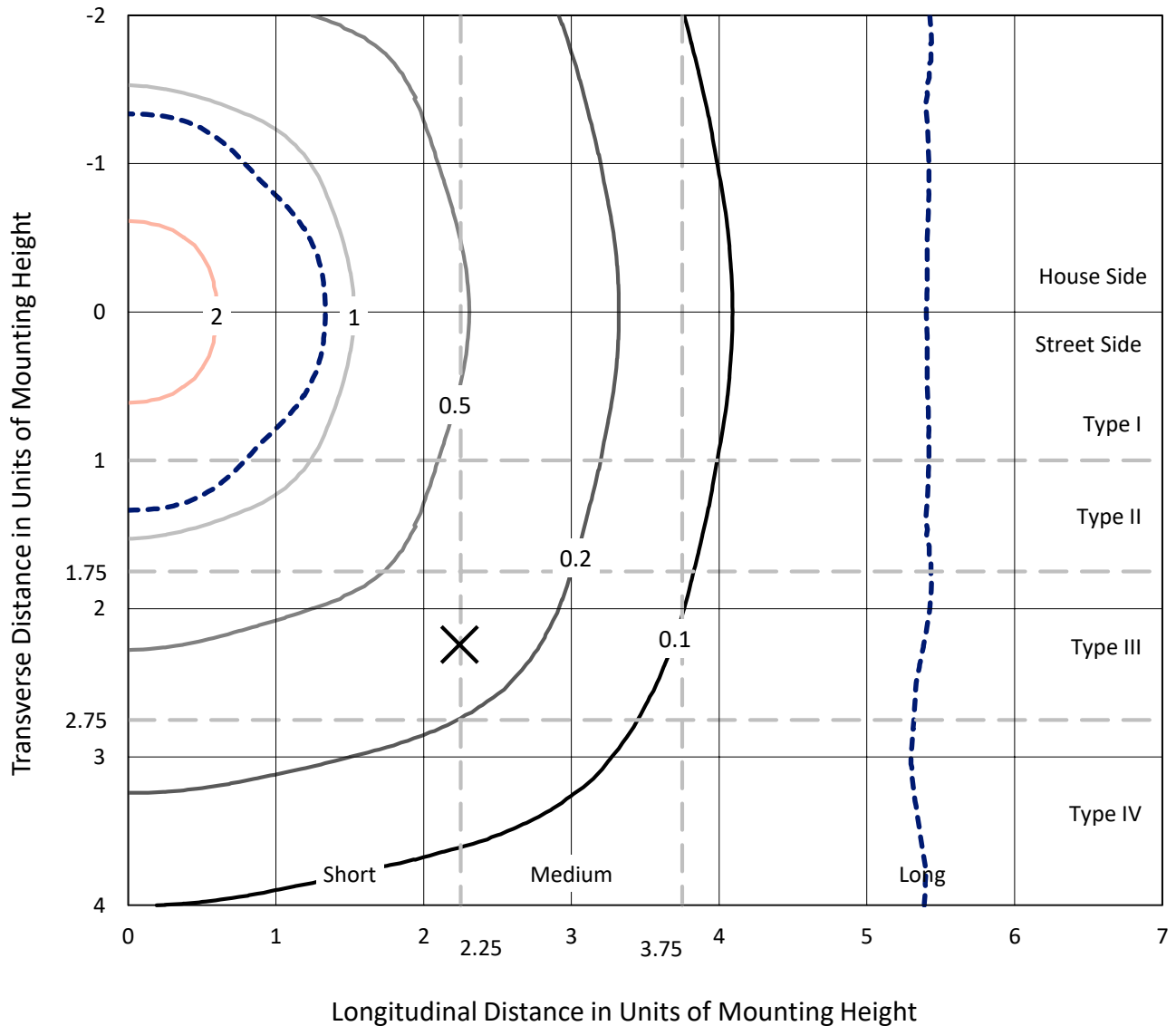


REPORT NUMBER: P148480

CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

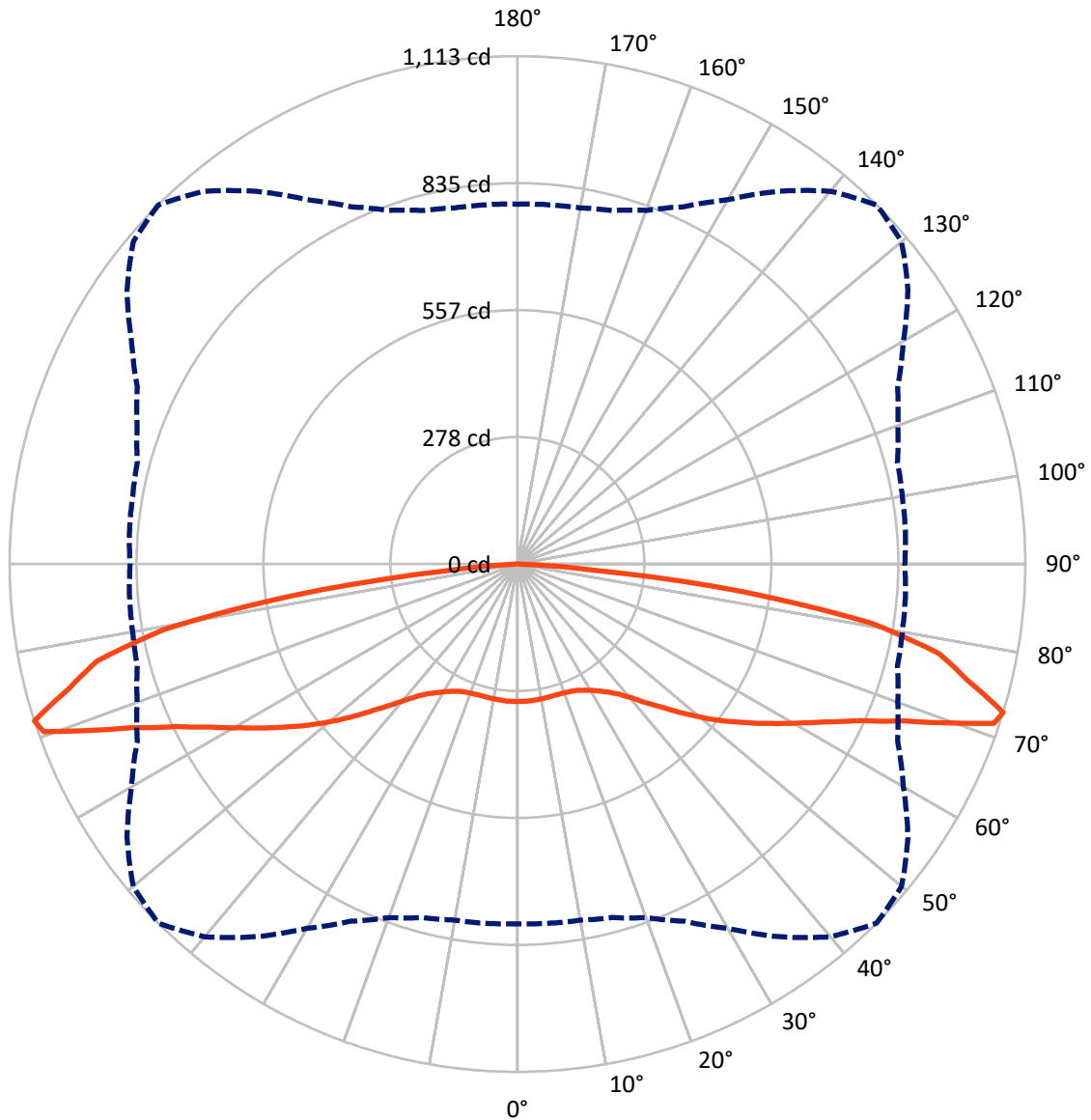


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P148480

CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P148480

CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1590.2 | 0.0 | 1590.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1590.2 | 0.0 | 1590.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3180.4 | 0.0 | 3180.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.7 | 0.9 |
| 10°-20° | 85.0 | 2.7 |
| 20°-30° | 142.3 | 4.5 |
| 30°-40° | 216.9 | 6.8 |
| 40°-50° | 346.3 | 10.9 |
| 50°-60° | 532.4 | 16.7 |
| 60°-70° | 775.2 | 24.4 |
| 70°-80° | 873.3 | 27.5 |
| 80°-90° | 180.3 | 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° | 3180.4 | 100.0 |
| 0°-180° | 3180.4 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P148480

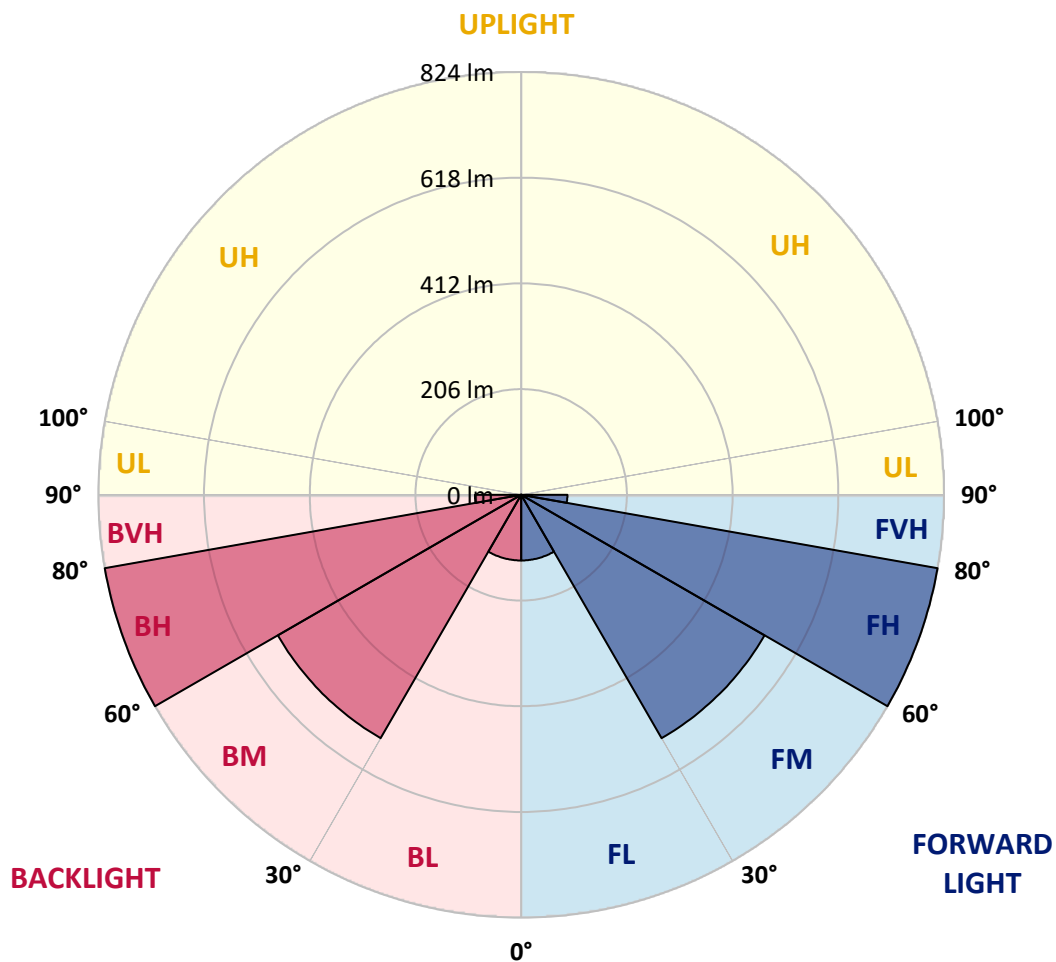
CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 128.0 | 4.0 | | | |
| FM (30°-60°) | 547.8 | 17.2 | | | |
| FH (60°-80°) | 824.3 | 25.9 | | | G1/1800 |
| FVH (80°-90°) | 90.1 | 2.8 | | | G1/100 |
| BL (0°-30°) | 128.0 | 4.0 | B1/500 | | |
| BM (30°-60°) | 547.8 | 17.2 | B1/1000 | | |
| BH (60°-80°) | 824.3 | 25.9 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 90.1 | 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





REPORT NUMBER: P148480

CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 |
| 2.5° | 301.8 | 302.0 | 301.9 | 301.8 | 301.8 | 301.8 | 301.6 | 301.5 | 301.0 | 301.2 | 301.7 |
| 5° | 301.8 | 301.7 | 301.6 | 301.5 | 301.5 | 301.8 | 301.5 | 301.3 | 301.2 | 301.3 | 301.1 |
| 7.5° | 301.6 | 301.4 | 301.2 | 301.1 | 301.2 | 301.2 | 301.0 | 300.6 | 300.9 | 300.6 | 300.3 |
| 10° | 301.2 | 300.9 | 301.0 | 300.6 | 300.8 | 300.6 | 300.3 | 300.1 | 300.3 | 300.0 | 299.6 |
| 12.5° | 301.4 | 300.9 | 300.8 | 300.6 | 300.6 | 300.5 | 300.1 | 299.7 | 299.8 | 299.6 | 299.2 |
| 15° | 301.4 | 301.1 | 301.0 | 300.7 | 300.6 | 300.4 | 299.9 | 299.8 | 299.8 | 299.5 | 299.0 |
| 17.5° | 301.5 | 301.3 | 301.3 | 300.9 | 300.8 | 300.7 | 300.1 | 299.8 | 300.0 | 299.6 | 299.2 |
| 20° | 302.0 | 301.8 | 301.9 | 301.6 | 301.3 | 301.4 | 300.9 | 300.8 | 300.8 | 300.8 | 299.8 |
| 22.5° | 303.0 | 303.0 | 303.2 | 303.1 | 303.0 | 303.1 | 302.8 | 302.8 | 302.8 | 302.8 | 302.1 |
| 25° | 305.8 | 305.8 | 305.9 | 305.9 | 306.0 | 306.6 | 306.4 | 306.2 | 306.7 | 306.6 | 305.9 |
| 27.5° | 311.2 | 311.0 | 311.2 | 311.3 | 311.8 | 312.5 | 312.3 | 312.6 | 313.2 | 313.1 | 312.4 |
| 30° | 317.4 | 317.2 | 317.6 | 318.1 | 318.4 | 319.6 | 319.1 | 320.3 | 320.9 | 321.4 | 320.9 |
| 32.5° | 326.4 | 326.3 | 327.1 | 327.4 | 328.2 | 329.3 | 329.5 | 330.5 | 331.2 | 332.1 | 331.5 |
| 35° | 338.4 | 338.2 | 338.8 | 339.3 | 340.2 | 341.4 | 341.8 | 343.1 | 344.2 | 344.8 | 343.8 |
| 37.5° | 356.6 | 355.8 | 356.8 | 357.2 | 357.9 | 358.2 | 359.4 | 361.0 | 362.2 | 362.0 | 361.3 |
| 40° | 381.5 | 381.4 | 380.9 | 380.4 | 381.6 | 382.0 | 382.0 | 384.2 | 386.2 | 385.9 | 385.8 |
| 42.5° | 410.5 | 409.8 | 409.3 | 409.3 | 409.9 | 410.1 | 412.6 | 414.3 | 415.8 | 416.1 | 415.8 |
| 45° | 441.6 | 440.9 | 441.1 | 440.8 | 441.0 | 442.1 | 443.6 | 446.7 | 449.3 | 449.4 | 448.0 |
| 47.5° | 475.2 | 472.8 | 474.6 | 472.1 | 473.7 | 474.5 | 478.2 | 482.8 | 487.4 | 488.3 | 487.0 |
| 50° | 509.2 | 508.9 | 508.8 | 508.2 | 509.0 | 510.8 | 515.4 | 522.5 | 527.0 | 530.0 | 528.0 |
| 52.5° | 546.4 | 545.1 | 544.5 | 543.7 | 544.4 | 548.0 | 554.4 | 560.6 | 568.6 | 572.1 | 569.3 |
| 55° | 582.5 | 582.1 | 579.9 | 579.8 | 581.4 | 587.0 | 594.0 | 601.6 | 610.4 | 614.2 | 613.2 |
| 57.5° | 619.7 | 617.2 | 616.6 | 615.6 | 618.8 | 624.0 | 632.6 | 646.2 | 655.3 | 659.7 | 657.2 |
| 60° | 656.0 | 654.2 | 652.8 | 652.4 | 654.6 | 661.9 | 674.2 | 690.6 | 701.9 | 707.6 | 703.6 |
| 62.5° | 695.0 | 693.8 | 692.2 | 690.2 | 694.8 | 704.3 | 719.6 | 737.8 | 754.3 | 761.3 | 755.2 |
| 65° | 743.5 | 741.1 | 739.2 | 736.8 | 740.6 | 752.4 | 771.7 | 797.2 | 819.5 | 827.7 | 823.4 |
| 67.5° | 794.7 | 792.4 | 792.6 | 791.1 | 797.8 | 814.2 | 839.0 | 873.8 | 903.6 | 917.5 | 909.3 |
| 70° | 839.3 | 840.6 | 840.9 | 847.0 | 858.5 | 883.5 | 924.8 | 979.2 | 1024.5 | 1045.8 | 1037.0 |
| 71° | 826.2 | 828.9 | 833.2 | 839.5 | 859.4 | 888.9 | 945.4 | 1011.2 | 1065.3 | 1101.3 | 1089.2 |
| 72.5° | 788.8 | 790.5 | 792.7 | 802.3 | 824.8 | 863.9 | 922.0 | 997.3 | 1066.8 | 1113.3 | 1099.3 |
| 75° | 734.8 | 736.4 | 737.2 | 743.9 | 764.3 | 798.5 | 851.7 | 918.5 | 979.7 | 1019.4 | 1015.5 |
| 77.5° | 653.4 | 653.6 | 659.4 | 669.8 | 692.8 | 731.8 | 787.8 | 857.2 | 914.8 | 945.6 | 926.0 |
| 80° | 469.2 | 466.0 | 472.0 | 485.4 | 513.8 | 558.6 | 615.9 | 695.1 | 759.0 | 787.8 | 757.5 |
| 82.5° | 178.5 | 188.2 | 203.4 | 225.6 | 235.2 | 285.0 | 338.5 | 385.0 | 438.8 | 499.0 | 484.0 |
| 85° | 19.2 | 21.6 | 27.1 | 33.6 | 42.4 | 58.7 | 81.1 | 110.7 | 136.4 | 160.4 | 142.3 |
| 87.5° | 7.2 | 7.3 | 8.2 | 9.4 | 9.6 | 10.0 | 10.7 | 12.4 | 11.6 | 10.0 | 8.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P148480

CATALOG NUMBER: TMU-E01-LED-E-U-5XQ

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 | 301.3 |
| 2.5° | 301.3 | 301.4 | 301.3 | 301.4 | 301.4 | 301.1 | 301.2 | 301.0 |
| 5° | 301.3 | 301.0 | 301.1 | 301.2 | 301.1 | 301.2 | 301.0 | 301.2 |
| 7.5° | 300.8 | 300.3 | 300.5 | 300.5 | 300.3 | 300.6 | 300.4 | 300.4 |
| 10° | 300.0 | 299.4 | 299.7 | 299.5 | 299.4 | 299.5 | 299.5 | 299.5 |
| 12.5° | 299.2 | 298.8 | 298.9 | 298.8 | 298.8 | 299.0 | 298.9 | 299.0 |
| 15° | 299.1 | 298.4 | 298.3 | 298.2 | 298.2 | 298.4 | 298.4 | 298.6 |
| 17.5° | 299.0 | 298.1 | 298.0 | 297.8 | 297.9 | 298.2 | 298.3 | 298.2 |
| 20° | 299.4 | 298.8 | 298.6 | 298.4 | 298.3 | 298.8 | 298.7 | 298.6 |
| 22.5° | 301.8 | 300.9 | 300.8 | 300.2 | 299.9 | 300.2 | 300.0 | 300.0 |
| 25° | 305.5 | 304.5 | 304.2 | 303.2 | 302.6 | 302.6 | 302.3 | 302.2 |
| 27.5° | 312.2 | 310.8 | 310.4 | 309.7 | 308.8 | 308.9 | 308.4 | 308.4 |
| 30° | 320.1 | 318.8 | 317.6 | 316.5 | 315.4 | 315.0 | 314.4 | 314.4 |
| 32.5° | 330.3 | 328.8 | 327.4 | 326.1 | 324.6 | 324.0 | 323.0 | 322.5 |
| 35° | 342.9 | 340.9 | 339.2 | 338.4 | 336.8 | 336.1 | 335.4 | 336.2 |
| 37.5° | 360.5 | 358.1 | 357.3 | 356.2 | 355.2 | 354.0 | 354.2 | 354.0 |
| 40° | 384.8 | 382.7 | 381.8 | 379.9 | 379.7 | 378.3 | 379.2 | 378.3 |
| 42.5° | 414.9 | 410.9 | 410.4 | 408.8 | 408.3 | 407.6 | 407.9 | 407.3 |
| 45° | 447.6 | 444.1 | 443.4 | 441.0 | 441.1 | 439.4 | 440.0 | 440.0 |
| 47.5° | 484.5 | 480.8 | 477.7 | 475.9 | 475.2 | 474.2 | 474.8 | 474.6 |
| 50° | 522.5 | 517.4 | 514.0 | 510.6 | 509.1 | 509.5 | 508.3 | 510.4 |
| 52.5° | 563.3 | 555.8 | 550.9 | 547.7 | 544.8 | 545.4 | 545.6 | 546.2 |
| 55° | 605.6 | 595.9 | 588.9 | 584.7 | 582.1 | 582.2 | 583.0 | 583.6 |
| 57.5° | 648.1 | 636.0 | 626.5 | 620.2 | 618.5 | 619.2 | 619.2 | 619.2 |
| 60° | 692.2 | 677.7 | 665.4 | 658.2 | 656.8 | 656.3 | 659.6 | 658.5 |
| 62.5° | 739.5 | 722.1 | 709.4 | 700.2 | 698.1 | 699.6 | 702.5 | 701.8 |
| 65° | 802.2 | 778.2 | 761.8 | 752.8 | 749.1 | 750.6 | 754.5 | 754.3 |
| 67.5° | 883.1 | 849.5 | 827.9 | 816.2 | 813.6 | 815.4 | 817.6 | 819.6 |
| 70° | 1004.2 | 956.1 | 925.2 | 900.0 | 889.2 | 887.1 | 889.2 | 889.3 |
| 71° | 1046.8 | 991.5 | 942.4 | 911.6 | 893.8 | 886.3 | 886.9 | 883.2 |
| 72.5° | 1045.0 | 976.9 | 919.5 | 887.2 | 862.6 | 856.6 | 853.6 | 849.2 |
| 75° | 974.6 | 913.2 | 863.4 | 828.3 | 804.5 | 797.4 | 792.2 | 792.0 |
| 77.5° | 883.9 | 838.6 | 783.7 | 746.4 | 717.5 | 705.8 | 700.5 | 700.3 |
| 80° | 710.5 | 642.8 | 602.6 | 580.2 | 545.2 | 535.2 | 524.5 | 520.5 |
| 82.5° | 429.7 | 335.8 | 273.0 | 242.6 | 225.8 | 185.9 | 166.8 | 157.8 |
| 85° | 100.1 | 71.1 | 49.0 | 32.2 | 23.2 | 18.4 | 14.2 | 12.5 |
| 87.5° | 6.8 | 5.3 | 4.7 | 3.8 | 2.9 | 2.8 | 1.8 | 1.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)