

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: P161554

Luminaire Tested: **OVF-F01-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161554
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-F01-LED-E-U-5MQ-7060
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2632.4 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

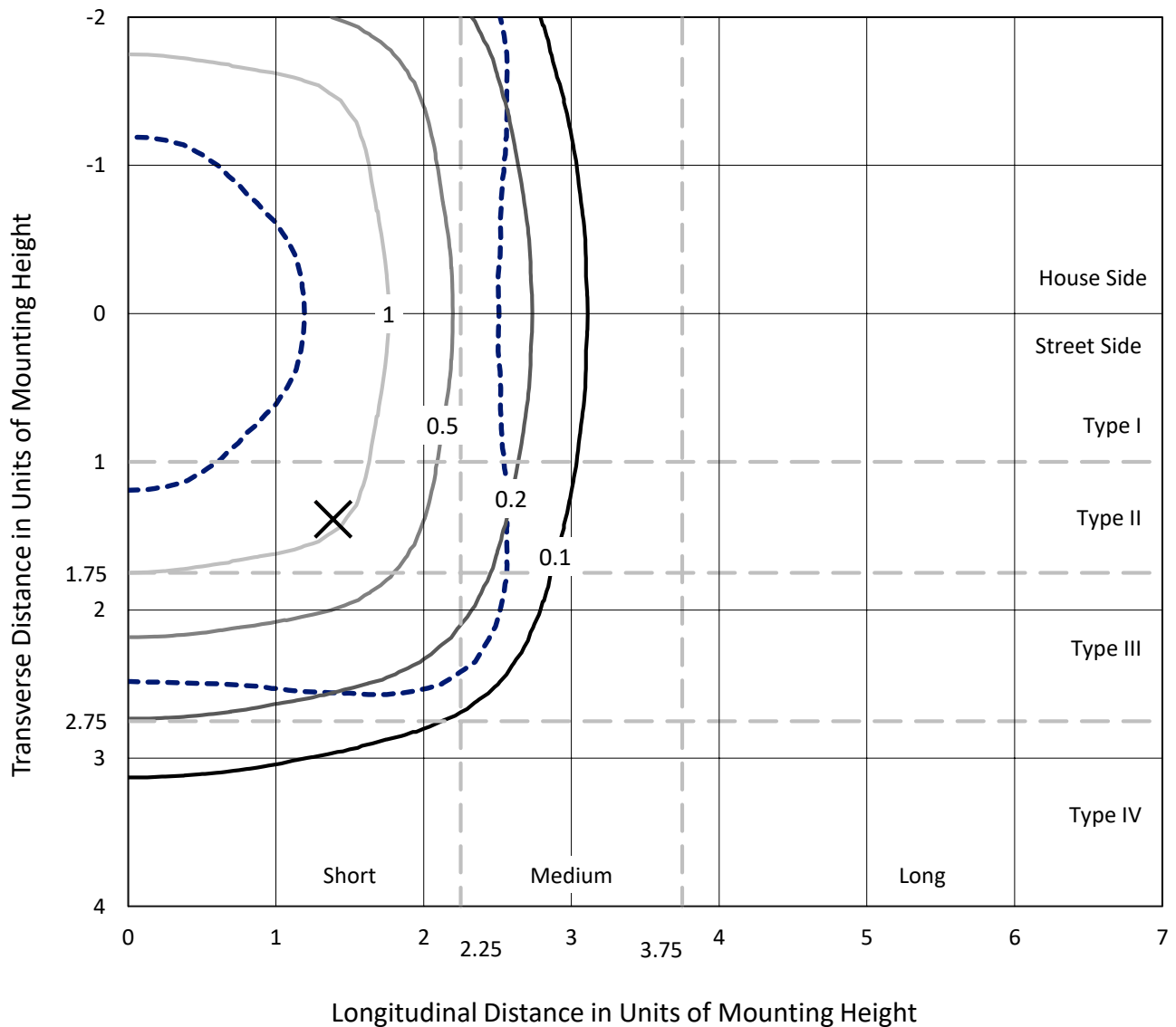
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

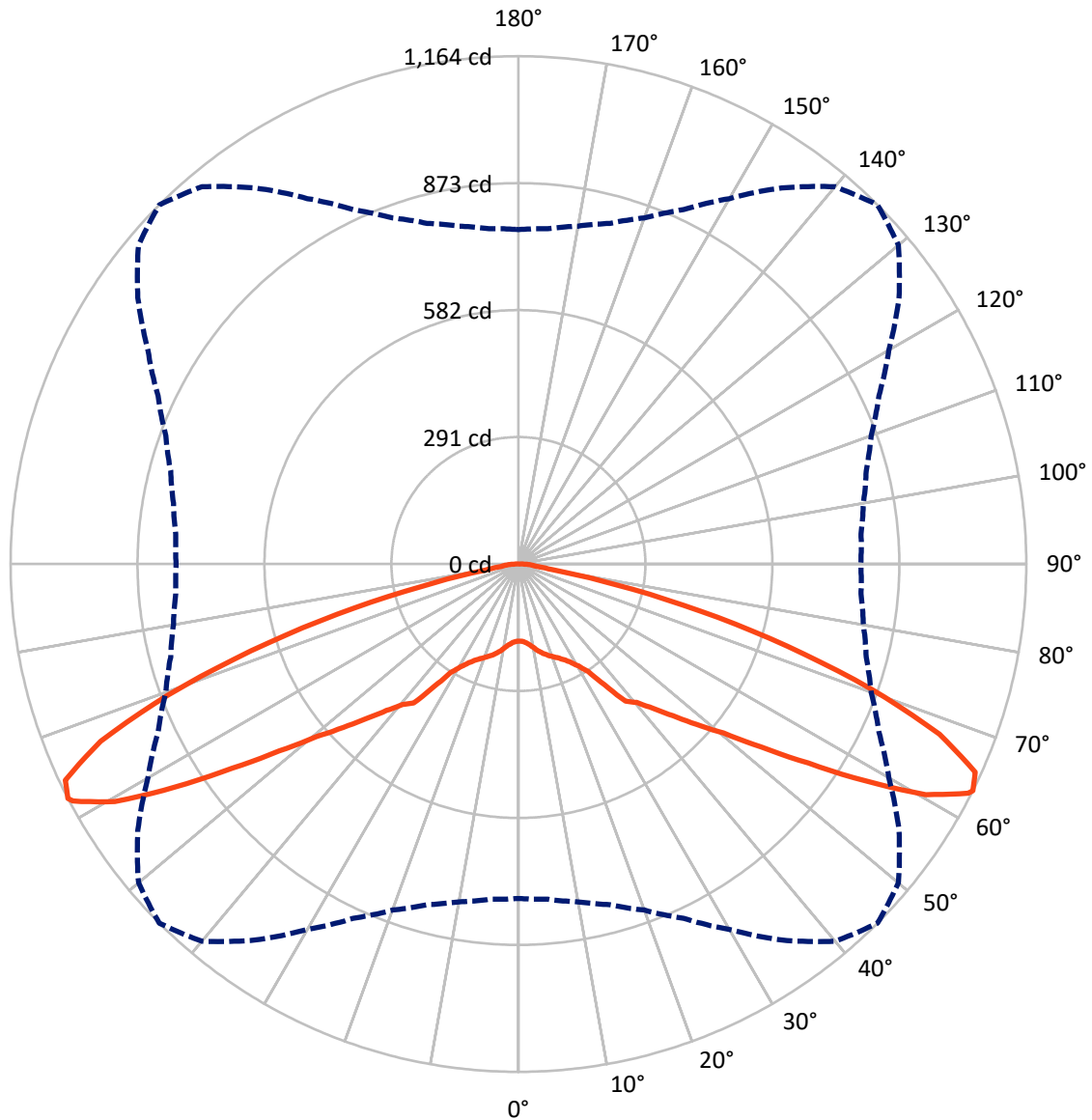
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1316.2 | 0.0 | 1316.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1316.2 | 0.0 | 1316.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 2632.4 | 0.0 | 2632.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 17.8 | 0.7 |
| 10°-20° | 60.8 | 2.3 |
| 20°-30° | 116.1 | 4.4 |
| 30°-40° | 221.1 | 8.4 |
| 40°-50° | 380.8 | 14.5 |
| 50°-60° | 680.5 | 25.8 |
| 60°-70° | 828.8 | 31.5 |
| 70°-80° | 295.2 | 11.2 |
| 80°-90° | 31.3 | 1.2 |
| 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° | 2632.4 | 100.0 |
| 0°-180° | 2632.4 | 100.0 |



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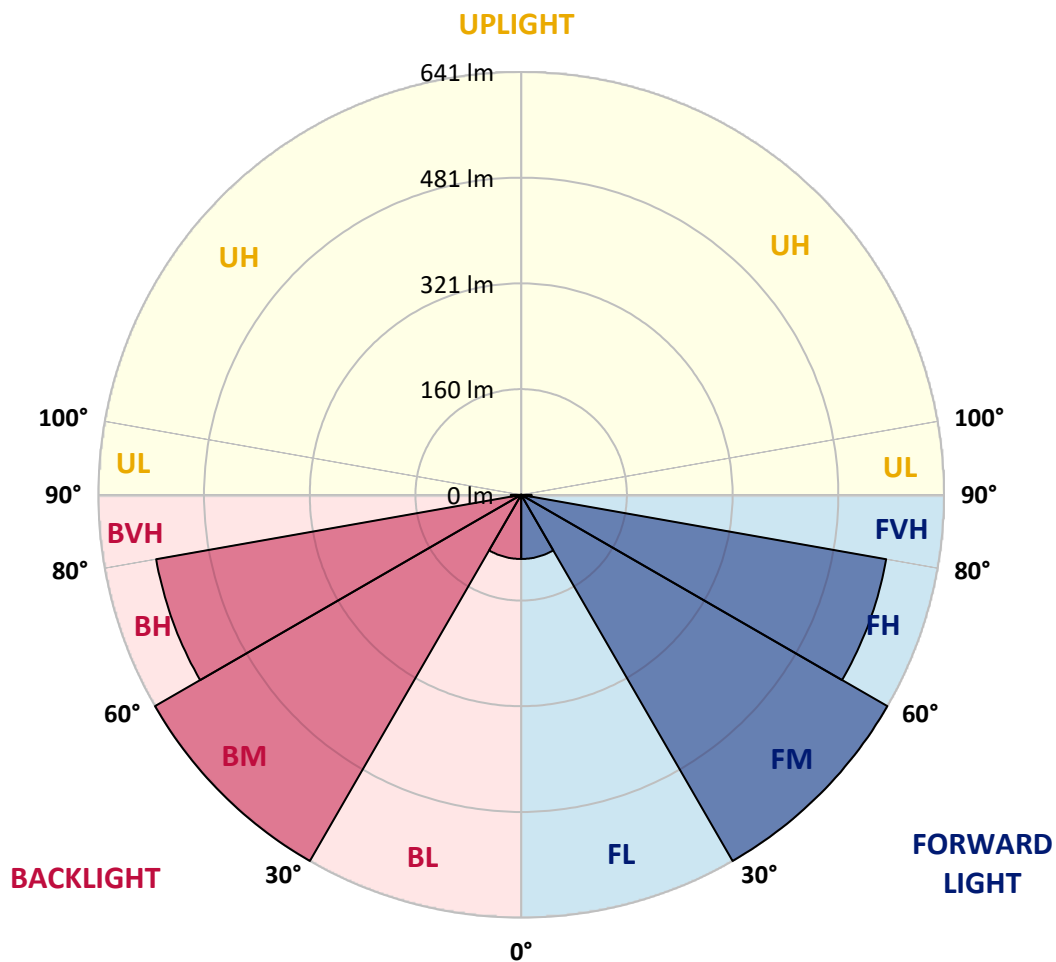
CATALOG NUMBER: OVF-F01-LED-E-U-5MQ-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 97.3 | 3.7 | | | |
| FM (30°-60°) | 641.2 | 24.4 | | | |
| FH (60°-80°) | 562.0 | 21.4 | | | G0/660 |
| FVH (80°-90°) | 15.6 | 0.6 | | | G1/100 |
| BL (0°-30°) | 97.3 | 3.7 | B0/110 | | |
| BM (30°-60°) | 641.2 | 24.4 | B1/1000 | | |
| BH (60°-80°) | 562.0 | 21.4 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 15.6 | 0.6 | | | 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° | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 |
| 2.5° | 178.1 | 177.9 | 178.1 | 177.7 | 177.7 | 177.5 | 177.5 | 177.5 | 177.2 | 177.5 | 177.2 |
| 5° | 181.8 | 181.6 | 181.8 | 181.4 | 181.4 | 181.1 | 181.1 | 181.1 | 180.8 | 181.1 | 180.9 |
| 7.5° | 188.2 | 188.6 | 188.2 | 187.9 | 187.9 | 187.5 | 187.4 | 187.4 | 187.2 | 187.0 | 187.4 |
| 10° | 197.2 | 197.5 | 197.0 | 196.7 | 196.5 | 196.4 | 196.0 | 195.8 | 195.8 | 195.2 | 195.3 |
| 12.5° | 206.7 | 206.7 | 206.2 | 206.0 | 206.0 | 205.7 | 205.0 | 204.8 | 204.8 | 204.5 | 204.1 |
| 15° | 215.2 | 215.2 | 214.8 | 214.1 | 214.3 | 213.8 | 213.3 | 213.0 | 213.0 | 212.6 | 212.3 |
| 17.5° | 223.0 | 223.0 | 222.4 | 221.8 | 221.4 | 221.3 | 220.6 | 220.2 | 220.2 | 219.9 | 219.6 |
| 20° | 230.7 | 231.1 | 230.2 | 229.6 | 228.9 | 228.2 | 227.5 | 227.2 | 226.7 | 226.8 | 226.7 |
| 22.5° | 240.1 | 240.2 | 238.9 | 238.0 | 236.7 | 235.8 | 234.8 | 234.5 | 233.8 | 233.8 | 234.1 |
| 25° | 251.9 | 251.8 | 250.2 | 248.7 | 247.2 | 245.5 | 244.0 | 243.6 | 242.9 | 242.8 | 242.9 |
| 27.5° | 267.5 | 267.3 | 265.5 | 263.4 | 261.4 | 258.9 | 257.0 | 256.0 | 255.5 | 254.8 | 255.1 |
| 30° | 286.7 | 287.0 | 284.8 | 282.4 | 279.9 | 276.8 | 274.5 | 273.1 | 272.1 | 271.4 | 271.7 |
| 32.5° | 325.6 | 325.3 | 321.9 | 316.8 | 311.4 | 304.3 | 298.5 | 296.1 | 294.3 | 293.6 | 294.1 |
| 35° | 364.8 | 364.4 | 363.1 | 361.5 | 360.2 | 355.6 | 351.4 | 346.5 | 342.4 | 339.8 | 340.5 |
| 37.5° | 383.2 | 383.2 | 382.2 | 381.9 | 381.9 | 384.6 | 388.0 | 394.1 | 398.8 | 399.1 | 397.6 |
| 40° | 412.0 | 412.0 | 410.3 | 409.5 | 409.0 | 409.8 | 412.0 | 414.2 | 416.6 | 417.1 | 415.4 |
| 42.5° | 445.9 | 444.4 | 443.2 | 441.5 | 441.3 | 442.2 | 444.5 | 447.3 | 449.6 | 451.7 | 448.1 |
| 45° | 482.5 | 481.1 | 480.0 | 478.9 | 479.6 | 481.8 | 485.0 | 489.8 | 493.2 | 496.2 | 493.3 |
| 47.5° | 523.3 | 520.4 | 521.6 | 520.6 | 522.3 | 526.7 | 532.5 | 539.6 | 543.1 | 548.6 | 544.0 |
| 50° | 574.1 | 574.8 | 574.1 | 574.1 | 576.2 | 581.9 | 590.4 | 600.1 | 606.2 | 609.2 | 606.5 |
| 52.5° | 649.7 | 647.7 | 643.1 | 644.5 | 647.2 | 656.3 | 667.3 | 680.9 | 688.7 | 696.0 | 687.5 |
| 55° | 732.4 | 732.7 | 732.0 | 733.9 | 739.2 | 748.5 | 762.4 | 782.9 | 792.7 | 805.4 | 795.2 |
| 57.5° | 800.8 | 803.2 | 807.3 | 812.9 | 824.2 | 839.8 | 867.1 | 898.4 | 924.5 | 938.2 | 922.3 |
| 60° | 823.0 | 825.4 | 835.2 | 850.8 | 872.1 | 904.0 | 948.2 | 1001.9 | 1048.8 | 1073.2 | 1052.4 |
| 62.5° | 780.3 | 784.7 | 799.3 | 820.8 | 856.1 | 905.9 | 971.6 | 1051.1 | 1123.4 | 1156.8 | 1131.5 |
| 63° | 766.4 | 771.3 | 786.3 | 808.1 | 844.0 | 896.0 | 967.0 | 1052.1 | 1128.6 | 1163.9 | 1136.6 |
| 65° | 704.8 | 708.0 | 723.7 | 748.6 | 788.6 | 842.8 | 921.8 | 1022.4 | 1109.7 | 1150.5 | 1121.5 |
| 67.5° | 607.7 | 611.9 | 626.3 | 647.8 | 686.6 | 744.1 | 821.7 | 922.0 | 1007.9 | 1040.5 | 1015.8 |
| 70° | 487.4 | 492.2 | 504.0 | 524.0 | 554.5 | 607.7 | 674.1 | 767.8 | 832.3 | 857.9 | 831.5 |
| 72.5° | 342.6 | 344.6 | 353.2 | 374.2 | 397.1 | 439.5 | 492.2 | 565.0 | 627.0 | 643.8 | 618.4 |
| 75° | 145.0 | 145.2 | 156.5 | 169.9 | 198.6 | 240.7 | 286.7 | 349.3 | 405.1 | 431.2 | 399.0 |
| 77.5° | 46.4 | 46.9 | 50.1 | 55.1 | 64.5 | 83.4 | 117.2 | 151.6 | 202.8 | 227.5 | 197.4 |
| 80° | 38.8 | 39.5 | 40.8 | 41.8 | 42.5 | 43.5 | 47.4 | 52.9 | 66.6 | 77.4 | 62.5 |
| 82.5° | 33.4 | 34.6 | 37.6 | 38.8 | 39.5 | 39.8 | 40.3 | 40.2 | 39.3 | 39.0 | 39.1 |
| 85° | 25.4 | 28.3 | 31.7 | 34.4 | 34.7 | 34.9 | 35.9 | 36.3 | 33.5 | 30.8 | 33.5 |
| 87.5° | 11.0 | 14.2 | 21.9 | 24.2 | 23.7 | 22.0 | 23.5 | 24.9 | 22.7 | 16.6 | 22.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 | 176.7 |
| 2.5° | 177.4 | 177.7 | 177.7 | 177.7 | 177.7 | 177.9 | 178.1 | 177.9 |
| 5° | 181.1 | 181.4 | 181.3 | 181.4 | 181.4 | 181.6 | 181.8 | 181.6 |
| 7.5° | 187.5 | 187.5 | 187.5 | 187.9 | 187.9 | 188.2 | 188.2 | 188.2 |
| 10° | 195.5 | 195.3 | 195.3 | 195.7 | 196.0 | 196.2 | 196.5 | 196.4 |
| 12.5° | 204.1 | 203.8 | 204.0 | 204.3 | 204.7 | 204.8 | 205.2 | 205.0 |
| 15° | 211.9 | 211.8 | 211.8 | 212.3 | 212.4 | 212.6 | 213.3 | 213.3 |
| 17.5° | 219.4 | 219.4 | 219.4 | 220.1 | 220.2 | 220.9 | 221.4 | 221.4 |
| 20° | 226.8 | 226.8 | 226.8 | 227.5 | 228.0 | 229.0 | 230.1 | 229.9 |
| 22.5° | 234.5 | 234.6 | 235.0 | 235.7 | 236.8 | 238.4 | 239.2 | 239.2 |
| 25° | 244.0 | 244.6 | 245.3 | 246.3 | 248.0 | 250.1 | 251.4 | 251.9 |
| 27.5° | 256.2 | 257.7 | 259.4 | 260.9 | 262.8 | 265.3 | 267.2 | 267.5 |
| 30° | 272.8 | 275.0 | 277.7 | 279.7 | 282.1 | 285.0 | 287.2 | 288.3 |
| 32.5° | 296.3 | 301.7 | 305.3 | 312.6 | 317.0 | 321.9 | 326.0 | 327.6 |
| 35° | 344.8 | 350.2 | 354.9 | 359.8 | 360.9 | 362.5 | 364.8 | 365.3 |
| 37.5° | 392.7 | 388.3 | 384.1 | 383.9 | 382.7 | 383.0 | 383.7 | 384.6 |
| 40° | 413.5 | 412.2 | 410.0 | 410.8 | 411.0 | 411.0 | 412.4 | 412.5 |
| 42.5° | 447.1 | 443.9 | 441.3 | 443.4 | 443.7 | 444.0 | 445.4 | 446.9 |
| 45° | 489.8 | 484.9 | 481.6 | 480.5 | 481.6 | 481.3 | 483.2 | 483.5 |
| 47.5° | 538.6 | 532.1 | 524.8 | 522.5 | 521.8 | 520.3 | 523.5 | 523.2 |
| 50° | 598.4 | 588.0 | 579.2 | 575.8 | 574.1 | 573.3 | 574.1 | 574.1 |
| 52.5° | 674.1 | 663.8 | 651.7 | 647.8 | 646.5 | 648.4 | 645.6 | 648.5 |
| 55° | 778.3 | 761.5 | 745.1 | 739.8 | 739.0 | 738.1 | 738.5 | 739.7 |
| 57.5° | 895.5 | 865.7 | 843.7 | 830.8 | 822.5 | 818.4 | 814.0 | 813.4 |
| 60° | 1008.7 | 954.5 | 912.6 | 884.2 | 864.0 | 848.8 | 841.0 | 838.3 |
| 62.5° | 1063.2 | 984.0 | 918.9 | 870.5 | 840.5 | 815.6 | 801.8 | 798.3 |
| 63° | 1064.8 | 980.2 | 911.3 | 860.1 | 825.2 | 802.9 | 788.3 | 784.6 |
| 65° | 1036.5 | 940.3 | 859.4 | 803.2 | 766.3 | 742.9 | 724.9 | 721.0 |
| 67.5° | 933.5 | 840.1 | 757.5 | 700.4 | 660.4 | 641.6 | 621.8 | 621.2 |
| 70° | 766.1 | 682.7 | 613.1 | 560.6 | 527.2 | 508.6 | 488.4 | 488.9 |
| 72.5° | 560.1 | 486.1 | 438.1 | 397.1 | 361.9 | 344.3 | 325.3 | 327.1 |
| 75° | 337.1 | 271.1 | 227.9 | 192.3 | 156.0 | 134.3 | 119.8 | 111.5 |
| 77.5° | 144.2 | 98.6 | 70.8 | 56.2 | 47.4 | 43.9 | 42.2 | 41.7 |
| 80° | 50.1 | 44.4 | 41.8 | 41.2 | 40.7 | 40.0 | 38.8 | 37.6 |
| 82.5° | 40.7 | 40.7 | 39.3 | 39.1 | 37.6 | 36.4 | 33.4 | 31.9 |
| 85° | 36.1 | 35.4 | 34.2 | 33.7 | 33.4 | 30.8 | 26.9 | 24.9 |
| 87.5° | 23.9 | 22.2 | 21.2 | 21.7 | 21.0 | 18.8 | 11.5 | 9.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)