

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: P144141

Luminaire Tested: **OVH-E01-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144141
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33698)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVH-E01-LED-E-U-5WQ-7050
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3145.6 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G1

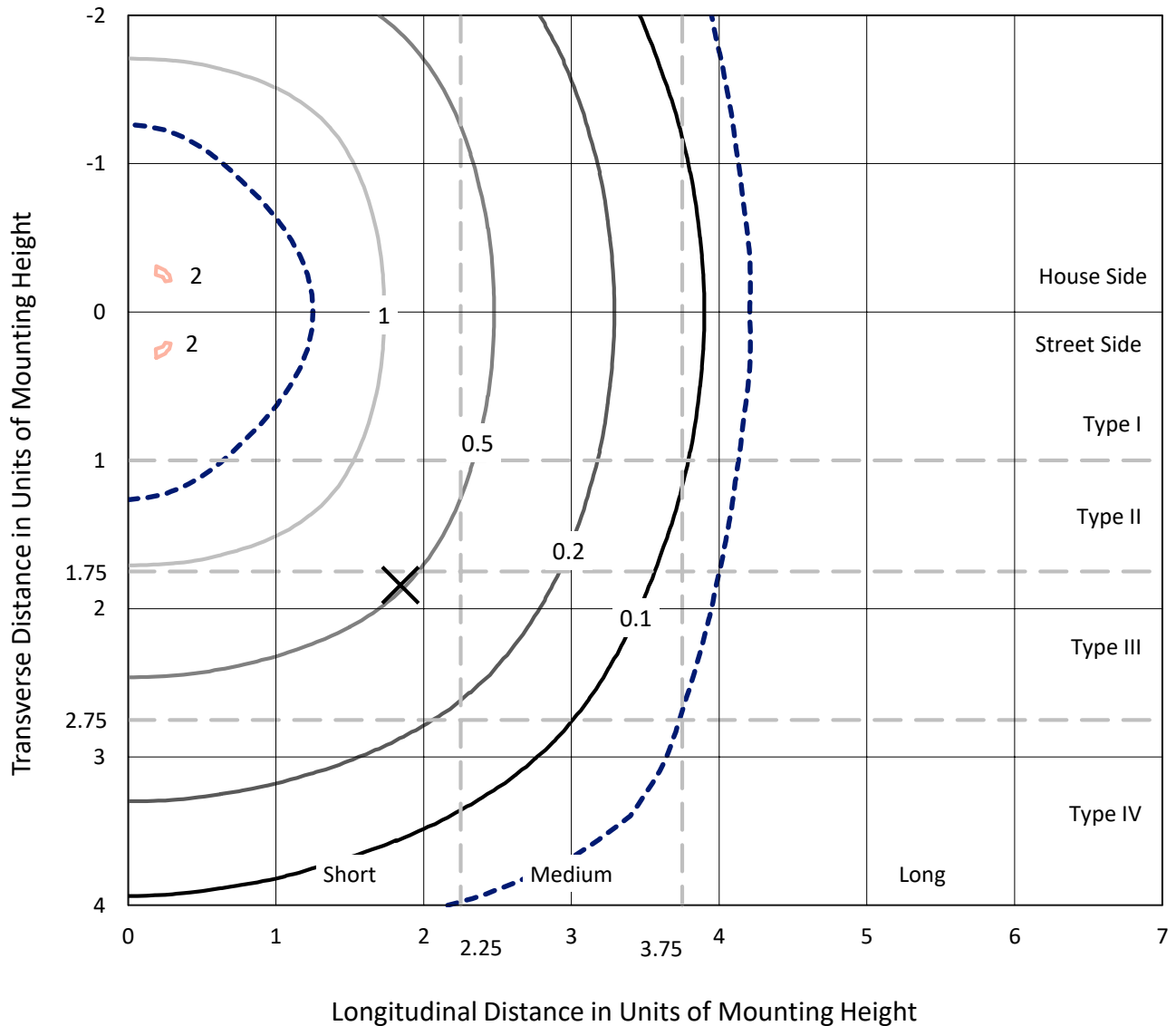
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

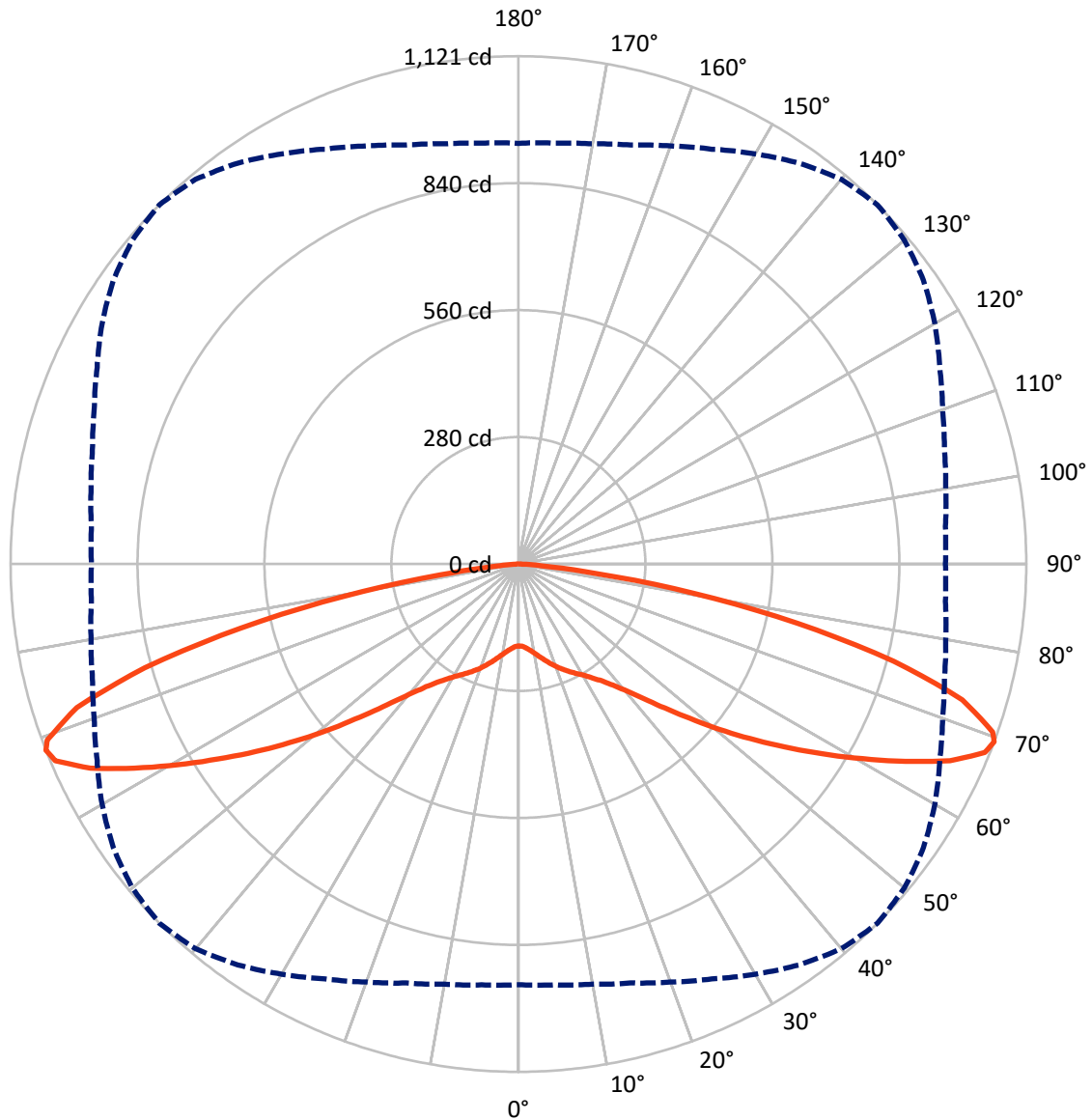
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1572.8 | 0.0 | 1572.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1572.8 | 0.0 | 1572.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3145.6 | 0.0 | 3145.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 18.2 | 0.6 |
| 10°-20° | 62.9 | 2.0 |
| 20°-30° | 121.2 | 3.9 |
| 30°-40° | 198.6 | 6.3 |
| 40°-50° | 345.2 | 11.0 |
| 50°-60° | 613.3 | 19.5 |
| 60°-70° | 952.2 | 30.3 |
| 70°-80° | 758.6 | 24.1 |
| 80°-90° | 75.4 | 2.4 |
| 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° | 3145.6 | 100.0 |
| 0°-180° | 3145.6 | 100.0 |



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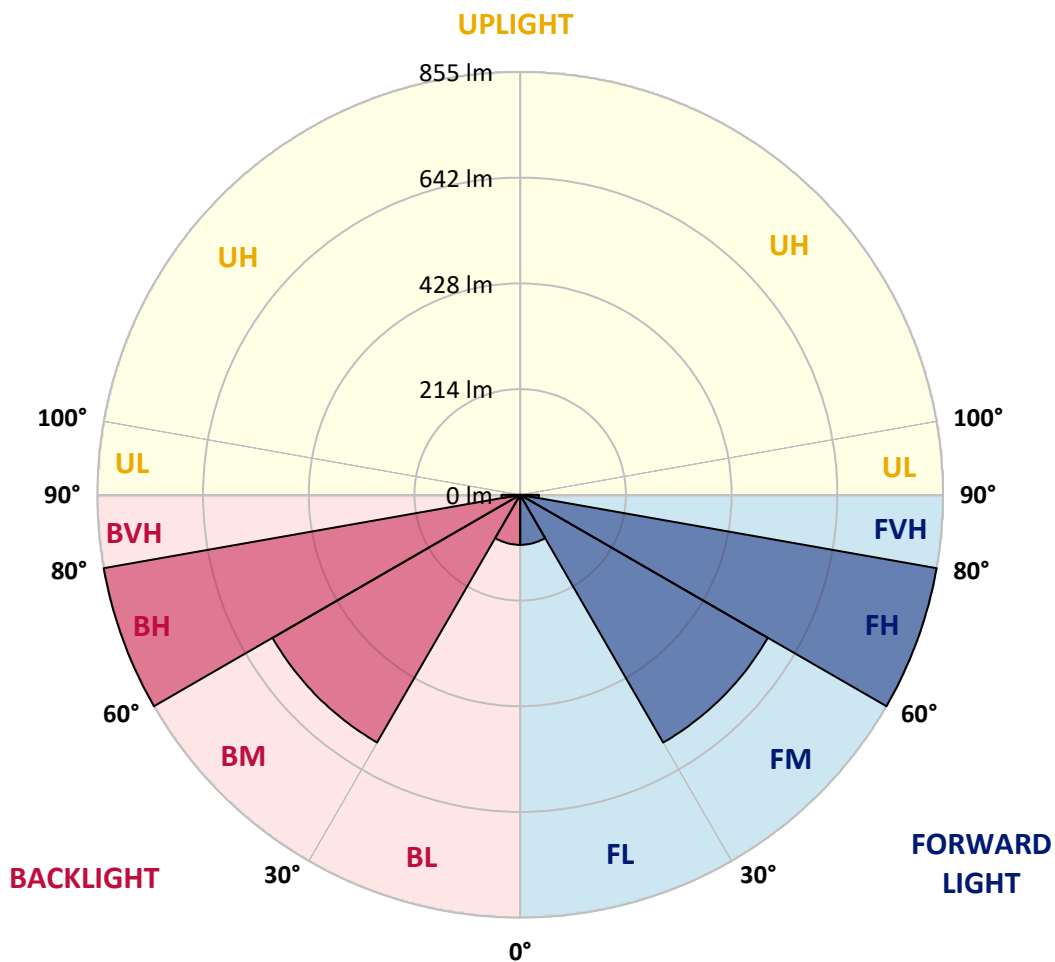
CATALOG NUMBER: OVH-E01-LED-E-U-5WQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 101.1 | 3.2 | | | |
| FM (30°-60°) | 578.5 | 18.4 | | | |
| FH (60°-80°) | 855.4 | 27.2 | | | G1/1800 |
| FVH (80°-90°) | 37.7 | 1.2 | | | G1/100 |
| BL (0°-30°) | 101.1 | 3.2 | B0/110 | | |
| BM (30°-60°) | 578.5 | 18.4 | B1/1000 | | |
| BH (60°-80°) | 855.4 | 27.2 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 37.7 | 1.2 | | | 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° | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2.5° | 182.2 | 182.2 | 182.2 | 182.0 | 182.0 | 181.8 | 182.0 | 181.8 | 181.8 | 181.8 | 181.8 |
| 5° | 187.0 | 186.5 | 186.5 | 186.3 | 186.8 | 186.8 | 186.3 | 186.5 | 186.3 | 186.5 | 186.5 |
| 7.5° | 192.9 | 192.9 | 192.9 | 192.7 | 193.1 | 192.9 | 192.7 | 192.9 | 192.9 | 192.7 | 192.7 |
| 10° | 200.3 | 200.5 | 200.3 | 200.3 | 200.9 | 200.7 | 200.9 | 200.9 | 201.1 | 200.9 | 200.9 |
| 12.5° | 208.9 | 208.9 | 209.1 | 209.3 | 209.5 | 209.7 | 210.4 | 210.1 | 210.6 | 210.1 | 210.1 |
| 15° | 219.0 | 219.4 | 219.0 | 219.0 | 219.6 | 220.0 | 220.2 | 220.2 | 220.6 | 220.4 | 220.0 |
| 17.5° | 229.6 | 229.8 | 229.6 | 229.4 | 230.1 | 230.7 | 230.9 | 230.9 | 231.5 | 231.1 | 231.1 |
| 20° | 240.5 | 240.7 | 240.3 | 240.1 | 240.9 | 240.9 | 241.3 | 241.5 | 242.2 | 242.4 | 241.8 |
| 22.5° | 250.6 | 250.8 | 250.6 | 250.4 | 251.2 | 251.2 | 251.8 | 252.0 | 252.8 | 252.6 | 252.6 |
| 25° | 260.4 | 260.4 | 260.2 | 260.2 | 261.0 | 261.2 | 261.9 | 262.3 | 263.1 | 263.1 | 263.1 |
| 27.5° | 269.5 | 269.7 | 269.3 | 269.0 | 270.7 | 271.3 | 271.7 | 272.5 | 273.1 | 273.6 | 273.4 |
| 30° | 279.7 | 279.7 | 279.5 | 280.1 | 281.2 | 282.0 | 282.8 | 284.0 | 285.3 | 284.8 | 284.8 |
| 32.5° | 291.8 | 292.2 | 292.0 | 292.9 | 294.1 | 295.3 | 296.3 | 297.8 | 298.4 | 299.4 | 298.6 |
| 35° | 308.0 | 308.9 | 308.4 | 309.3 | 310.3 | 311.1 | 313.4 | 314.8 | 315.8 | 316.5 | 316.0 |
| 37.5° | 328.4 | 327.9 | 328.8 | 329.0 | 331.0 | 332.0 | 334.7 | 336.8 | 338.4 | 339.0 | 338.6 |
| 40° | 353.6 | 353.0 | 354.0 | 355.0 | 357.7 | 358.7 | 361.8 | 364.9 | 367.1 | 368.0 | 367.6 |
| 42.5° | 383.8 | 384.6 | 386.2 | 387.7 | 391.4 | 394.2 | 397.7 | 402.2 | 404.7 | 405.7 | 404.3 |
| 45° | 423.4 | 421.9 | 425.0 | 428.7 | 430.8 | 437.1 | 442.9 | 447.6 | 451.7 | 453.3 | 451.7 |
| 47.5° | 468.5 | 468.3 | 472.0 | 476.5 | 481.9 | 487.8 | 494.6 | 500.7 | 507.9 | 508.3 | 506.3 |
| 50° | 518.4 | 522.5 | 524.5 | 529.1 | 538.9 | 546.3 | 554.9 | 564.2 | 570.7 | 572.8 | 569.1 |
| 52.5° | 578.5 | 581.6 | 582.8 | 590.4 | 599.5 | 608.5 | 620.6 | 631.7 | 639.3 | 640.1 | 638.2 |
| 55° | 643.8 | 646.2 | 648.5 | 657.7 | 667.6 | 675.6 | 691.0 | 701.9 | 709.4 | 712.3 | 711.1 |
| 57.5° | 711.3 | 713.6 | 716.4 | 726.5 | 736.5 | 747.8 | 762.4 | 775.1 | 783.9 | 789.3 | 787.8 |
| 60° | 786.2 | 786.2 | 792.8 | 802.8 | 811.0 | 824.4 | 839.6 | 854.3 | 864.0 | 872.4 | 870.1 |
| 62.5° | 865.0 | 867.3 | 873.6 | 881.8 | 890.5 | 902.8 | 920.0 | 937.7 | 952.4 | 958.8 | 958.6 |
| 65° | 924.7 | 928.8 | 937.2 | 946.7 | 961.1 | 975.6 | 997.4 | 1019.3 | 1037.2 | 1046.4 | 1046.4 |
| 67.5° | 942.2 | 944.8 | 955.3 | 969.7 | 990.4 | 1013.6 | 1043.1 | 1073.7 | 1098.1 | 1110.2 | 1102.7 |
| 69° | 928.2 | 932.1 | 941.3 | 956.9 | 981.6 | 1009.9 | 1045.0 | 1079.7 | 1108.0 | 1120.5 | 1111.7 |
| 70° | 912.0 | 916.3 | 925.5 | 940.9 | 966.4 | 996.6 | 1031.6 | 1069.0 | 1099.4 | 1110.0 | 1100.0 |
| 72.5° | 845.9 | 851.3 | 857.8 | 871.2 | 894.1 | 922.5 | 954.1 | 986.9 | 1016.0 | 1024.5 | 1011.9 |
| 75° | 733.3 | 734.3 | 737.6 | 747.4 | 755.6 | 775.7 | 802.6 | 828.7 | 850.6 | 855.6 | 842.2 |
| 77.5° | 519.0 | 513.5 | 507.9 | 516.3 | 522.9 | 548.8 | 577.9 | 599.2 | 622.2 | 629.2 | 615.7 |
| 80° | 227.6 | 225.5 | 233.3 | 244.4 | 273.4 | 290.6 | 319.1 | 349.7 | 369.2 | 392.0 | 367.6 |
| 82.5° | 44.9 | 47.4 | 54.8 | 67.7 | 83.5 | 105.1 | 123.7 | 144.9 | 164.0 | 172.6 | 163.8 |
| 85° | 18.3 | 19.9 | 22.6 | 25.2 | 27.1 | 30.4 | 35.7 | 44.3 | 48.8 | 49.5 | 47.0 |
| 87.5° | 7.6 | 8.8 | 11.9 | 14.2 | 14.4 | 13.7 | 14.2 | 14.6 | 11.9 | 9.6 | 12.1 |
| 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° | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 | 180.8 |
| 2.5° | 181.8 | 182.0 | 181.8 | 182.0 | 181.8 | 181.8 | 182.0 | 181.8 |
| 5° | 186.3 | 186.5 | 186.3 | 186.1 | 185.9 | 186.1 | 186.1 | 186.1 |
| 7.5° | 192.7 | 192.5 | 192.3 | 192.3 | 192.1 | 191.9 | 192.3 | 192.3 |
| 10° | 200.5 | 200.3 | 199.9 | 199.9 | 199.7 | 199.7 | 199.7 | 199.7 |
| 12.5° | 209.9 | 209.3 | 209.1 | 208.5 | 208.3 | 208.1 | 208.1 | 208.3 |
| 15° | 219.8 | 219.2 | 219.0 | 217.9 | 217.9 | 217.7 | 217.7 | 217.7 |
| 17.5° | 230.3 | 229.6 | 228.8 | 228.8 | 228.2 | 227.8 | 228.0 | 227.6 |
| 20° | 240.9 | 240.1 | 239.7 | 239.5 | 238.7 | 238.7 | 238.7 | 238.5 |
| 22.5° | 251.4 | 250.8 | 250.2 | 249.3 | 248.5 | 248.3 | 248.3 | 248.1 |
| 25° | 262.1 | 261.0 | 259.8 | 259.0 | 258.2 | 257.6 | 257.6 | 257.6 |
| 27.5° | 272.7 | 271.5 | 269.7 | 268.6 | 267.4 | 266.8 | 266.8 | 266.6 |
| 30° | 284.0 | 282.6 | 280.9 | 279.5 | 277.9 | 277.3 | 277.0 | 276.6 |
| 32.5° | 297.6 | 296.1 | 294.5 | 292.4 | 290.8 | 289.8 | 289.8 | 289.2 |
| 35° | 314.8 | 313.2 | 311.9 | 309.3 | 307.2 | 305.6 | 305.8 | 306.2 |
| 37.5° | 337.4 | 335.3 | 334.3 | 331.0 | 328.4 | 326.7 | 326.7 | 326.5 |
| 40° | 366.1 | 364.1 | 361.8 | 358.7 | 355.4 | 353.2 | 352.6 | 352.6 |
| 42.5° | 402.6 | 400.8 | 397.7 | 393.4 | 389.5 | 387.0 | 385.0 | 385.2 |
| 45° | 448.4 | 446.2 | 441.8 | 436.5 | 431.8 | 428.3 | 425.4 | 425.4 |
| 47.5° | 504.0 | 499.3 | 493.4 | 488.6 | 480.6 | 475.3 | 473.2 | 472.8 |
| 50° | 567.4 | 558.6 | 551.2 | 544.5 | 536.0 | 530.5 | 527.4 | 526.6 |
| 52.5° | 633.9 | 624.7 | 615.5 | 606.6 | 596.4 | 590.6 | 585.7 | 585.3 |
| 55° | 706.2 | 694.5 | 682.8 | 674.2 | 662.0 | 656.1 | 651.2 | 648.3 |
| 57.5° | 779.8 | 766.7 | 758.3 | 746.0 | 733.3 | 728.9 | 724.2 | 720.7 |
| 60° | 862.7 | 848.4 | 837.3 | 824.4 | 816.2 | 806.9 | 802.4 | 799.7 |
| 62.5° | 947.5 | 934.2 | 920.0 | 907.7 | 896.2 | 889.8 | 883.7 | 880.6 |
| 65° | 1033.7 | 1011.7 | 994.9 | 977.9 | 964.3 | 952.8 | 943.2 | 942.0 |
| 67.5° | 1086.6 | 1058.9 | 1030.8 | 1006.0 | 986.1 | 969.9 | 960.0 | 956.5 |
| 69° | 1091.0 | 1060.8 | 1025.7 | 995.9 | 973.0 | 957.4 | 945.7 | 942.0 |
| 70° | 1079.1 | 1048.7 | 1011.7 | 979.7 | 955.9 | 938.9 | 929.2 | 923.1 |
| 72.5° | 992.0 | 965.4 | 929.9 | 898.3 | 876.7 | 856.8 | 847.2 | 844.7 |
| 75° | 818.4 | 790.1 | 757.5 | 742.3 | 727.3 | 714.8 | 708.2 | 707.6 |
| 77.5° | 581.2 | 552.2 | 527.4 | 507.5 | 491.3 | 483.3 | 485.1 | 478.4 |
| 80° | 332.7 | 294.9 | 264.9 | 247.3 | 223.3 | 208.9 | 192.7 | 204.4 |
| 82.5° | 143.0 | 115.5 | 88.0 | 71.6 | 54.6 | 43.3 | 35.7 | 33.2 |
| 85° | 40.0 | 32.6 | 27.3 | 25.0 | 22.6 | 20.1 | 17.0 | 15.8 |
| 87.5° | 13.5 | 12.9 | 11.5 | 11.5 | 10.5 | 8.8 | 6.2 | 5.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)