

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: P269766

Luminaire Tested: **GAW-AF-01-LED-U-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-01-LED-U-5NQ-7027-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3754.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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

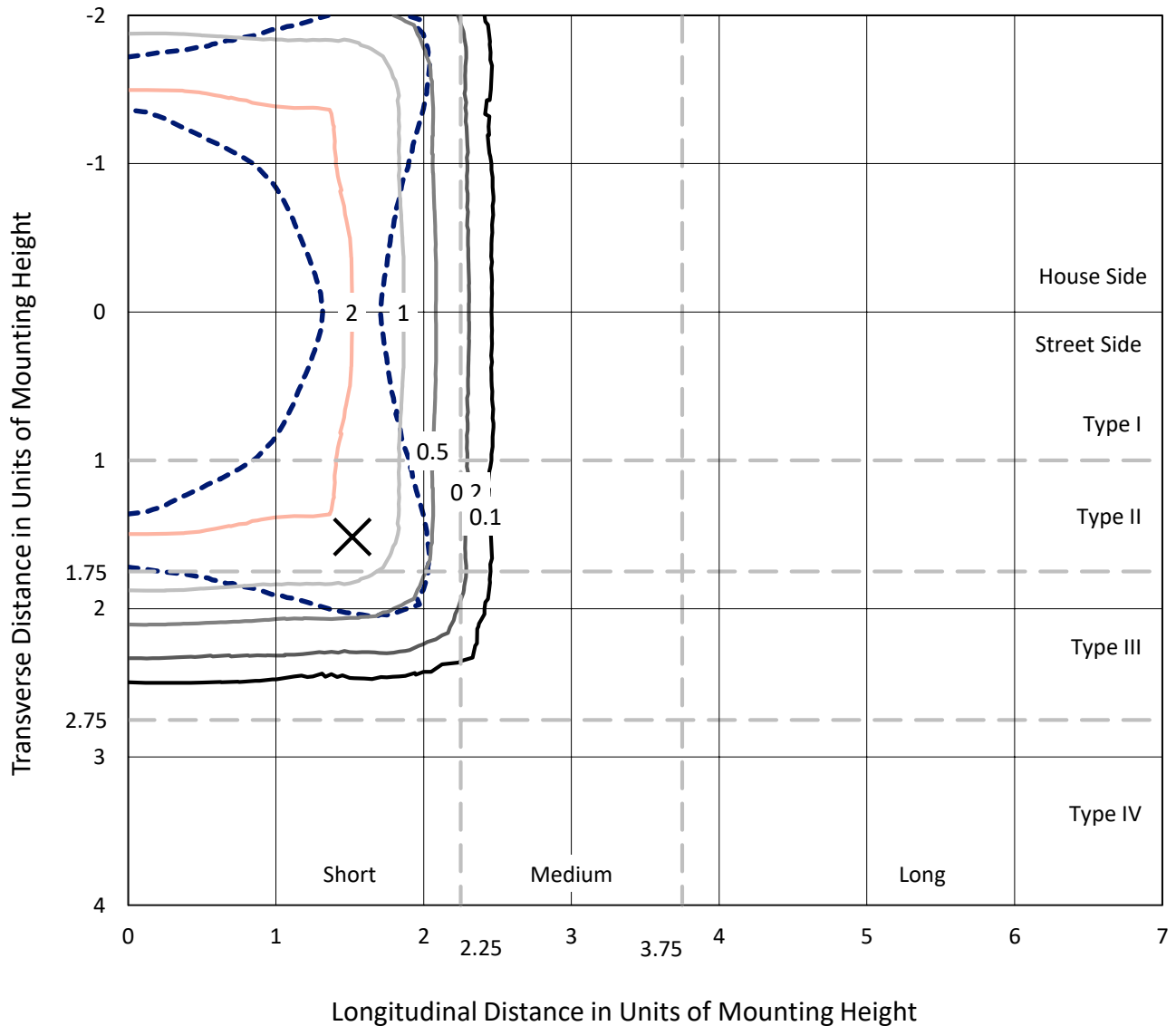


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

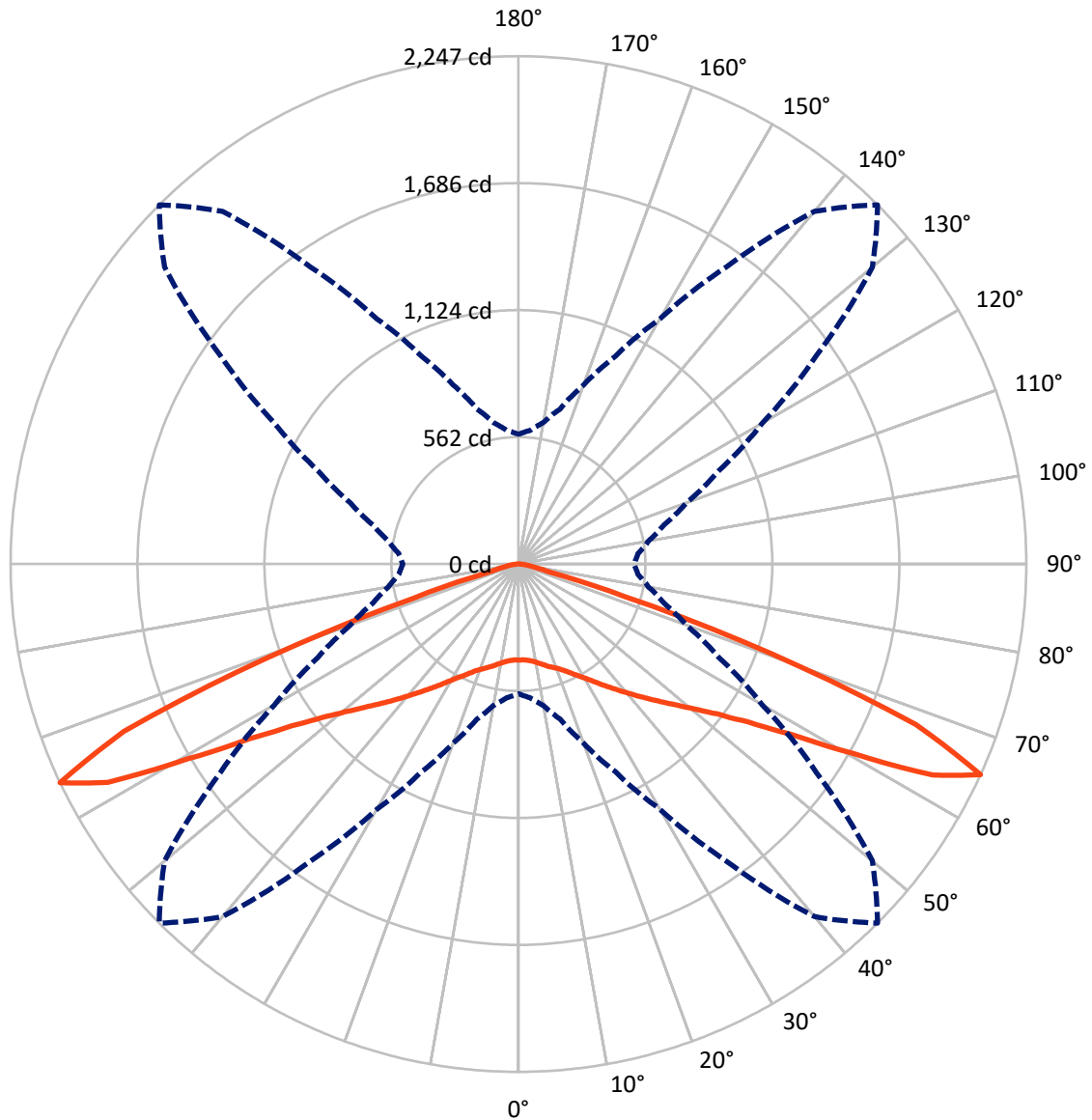


Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1877.1 | 0.0 | 1877.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1877.1 | 0.0 | 1877.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3754.1 | 0.0 | 3754.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.4 | 1.1 |
| 10°-20° | 132.8 | 3.5 |
| 20°-30° | 248.3 | 6.6 |
| 30°-40° | 419.9 | 11.2 |
| 40°-50° | 686.6 | 18.3 |
| 50°-60° | 1091.8 | 29.1 |
| 60°-70° | 986.9 | 26.3 |
| 70°-80° | 124.9 | 3.3 |
| 80°-90° | 21.5 | 0.6 |
| 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° | 3754.1 | 100.0 |
| 0°-180° | 3754.1 | 100.0 |



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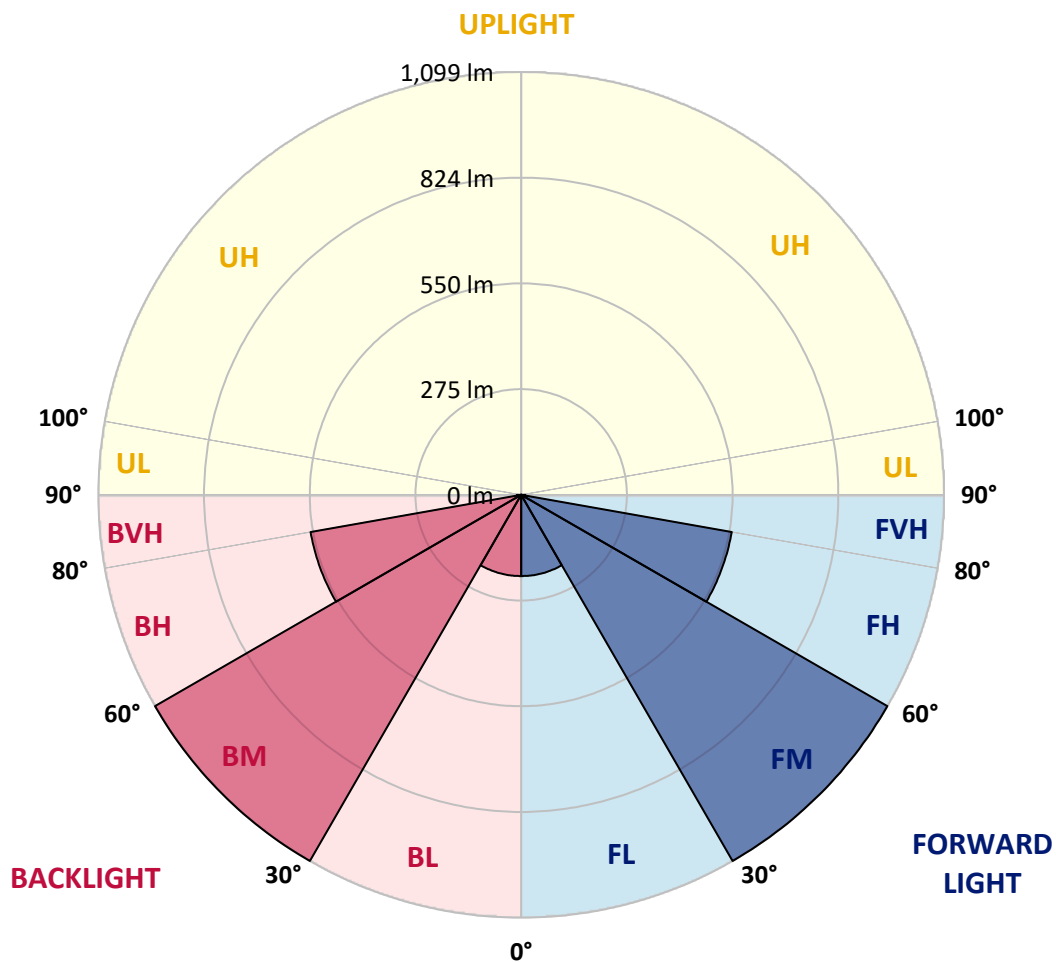
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 211.2 | 5.6 | | | |
| FM (30°-60°) | 1099.2 | 29.3 | | | |
| FH (60°-80°) | 555.9 | 14.8 | | | G0/660 |
| FVH (80°-90°) | 10.7 | 0.3 | | | G1/100 |
| BL (0°-30°) | 211.2 | 5.6 | B1/500 | | |
| BM (30°-60°) | 1099.2 | 29.3 | B2/2500 | | |
| BH (60°-80°) | 555.9 | 14.8 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 10.7 | 0.3 | | | 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° | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 |
| 2.5° | 425.2 | 425.4 | 425.8 | 425.4 | 425.8 | 425.3 | 425.0 | 425.4 | 425.0 | 424.4 | 424.8 |
| 5° | 428.9 | 429.0 | 429.0 | 428.5 | 429.0 | 428.6 | 428.1 | 428.9 | 428.3 | 427.8 | 428.1 |
| 7.5° | 435.0 | 435.7 | 435.1 | 434.6 | 435.0 | 434.6 | 434.3 | 434.5 | 434.3 | 433.7 | 433.9 |
| 10° | 443.3 | 443.8 | 443.5 | 443.3 | 443.7 | 443.5 | 443.0 | 443.0 | 443.0 | 442.5 | 442.5 |
| 12.5° | 453.3 | 453.0 | 452.9 | 453.0 | 453.6 | 453.6 | 453.5 | 453.6 | 454.0 | 454.2 | 453.9 |
| 15° | 463.2 | 463.4 | 463.4 | 463.4 | 464.6 | 465.4 | 466.0 | 466.3 | 466.9 | 467.2 | 466.5 |
| 17.5° | 475.5 | 475.5 | 475.3 | 475.5 | 476.6 | 477.9 | 478.3 | 479.2 | 479.9 | 480.4 | 479.4 |
| 20° | 489.1 | 489.4 | 489.4 | 489.8 | 491.3 | 492.8 | 492.8 | 493.2 | 492.8 | 493.2 | 492.6 |
| 22.5° | 505.8 | 507.0 | 507.0 | 507.1 | 508.5 | 510.3 | 509.9 | 510.3 | 509.5 | 510.2 | 509.5 |
| 25° | 527.7 | 529.2 | 528.9 | 528.9 | 529.9 | 531.2 | 531.3 | 532.3 | 532.2 | 533.1 | 532.5 |
| 27.5° | 552.3 | 554.8 | 555.4 | 555.2 | 556.0 | 557.2 | 557.6 | 558.7 | 558.0 | 558.7 | 558.3 |
| 30° | 581.8 | 582.8 | 584.3 | 584.7 | 585.6 | 587.0 | 587.0 | 587.0 | 586.2 | 587.2 | 587.9 |
| 32.5° | 612.4 | 614.4 | 615.7 | 618.9 | 620.5 | 621.4 | 621.2 | 621.5 | 620.6 | 622.0 | 623.2 |
| 35° | 652.8 | 654.2 | 656.5 | 658.9 | 661.2 | 661.0 | 660.3 | 660.6 | 660.6 | 661.8 | 662.9 |
| 37.5° | 701.5 | 701.8 | 704.9 | 708.5 | 709.4 | 708.5 | 705.2 | 704.5 | 703.0 | 704.5 | 706.2 |
| 40° | 753.0 | 754.2 | 760.2 | 762.5 | 763.1 | 761.1 | 756.6 | 753.9 | 750.4 | 752.3 | 754.8 |
| 42.5° | 806.9 | 809.6 | 814.9 | 819.0 | 820.7 | 819.6 | 813.1 | 809.2 | 804.5 | 805.6 | 808.0 |
| 45° | 866.9 | 869.7 | 877.6 | 881.3 | 884.7 | 882.9 | 876.7 | 870.5 | 863.4 | 863.8 | 867.8 |
| 47.5° | 933.6 | 936.7 | 946.6 | 953.1 | 954.9 | 954.4 | 947.7 | 939.3 | 929.3 | 929.0 | 932.4 |
| 50° | 1008.4 | 1011.5 | 1024.0 | 1033.9 | 1039.1 | 1038.6 | 1030.4 | 1018.6 | 1006.6 | 1006.8 | 1011.0 |
| 52.5° | 1081.6 | 1085.3 | 1098.4 | 1115.5 | 1125.7 | 1132.9 | 1127.9 | 1116.7 | 1102.0 | 1102.4 | 1106.3 |
| 55° | 1150.2 | 1156.4 | 1171.3 | 1194.7 | 1213.3 | 1233.6 | 1239.4 | 1239.0 | 1230.1 | 1232.7 | 1236.5 |
| 57.5° | 1183.4 | 1192.6 | 1215.6 | 1252.5 | 1290.5 | 1331.6 | 1366.5 | 1392.6 | 1403.6 | 1420.3 | 1416.4 |
| 60° | 1120.5 | 1135.1 | 1169.1 | 1223.4 | 1298.4 | 1384.3 | 1476.3 | 1566.0 | 1642.7 | 1700.5 | 1667.3 |
| 62.5° | 917.3 | 936.5 | 977.5 | 1047.2 | 1160.8 | 1298.1 | 1474.1 | 1686.5 | 1917.9 | 2057.5 | 1957.8 |
| 65° | 574.0 | 593.8 | 635.6 | 710.1 | 843.1 | 1013.7 | 1252.5 | 1604.6 | 2036.8 | 2247.4 | 2044.5 |
| 67.5° | 223.8 | 234.5 | 257.3 | 304.9 | 404.7 | 556.7 | 796.3 | 1195.7 | 1712.9 | 1897.3 | 1681.1 |
| 70° | 112.2 | 113.2 | 117.5 | 126.2 | 147.7 | 191.8 | 291.9 | 554.3 | 982.3 | 1186.4 | 947.0 |
| 72.5° | 81.0 | 81.2 | 83.4 | 87.2 | 94.1 | 103.9 | 122.9 | 169.7 | 319.4 | 488.3 | 299.4 |
| 75° | 62.1 | 62.8 | 64.0 | 66.1 | 69.8 | 74.6 | 81.6 | 97.7 | 121.1 | 140.4 | 118.1 |
| 77.5° | 47.8 | 49.2 | 50.1 | 52.0 | 54.3 | 57.8 | 59.6 | 65.8 | 76.4 | 80.5 | 79.3 |
| 80° | 36.4 | 37.5 | 39.5 | 41.1 | 42.7 | 44.2 | 43.6 | 46.4 | 52.0 | 55.3 | 53.5 |
| 82.5° | 23.1 | 24.7 | 30.3 | 31.6 | 32.3 | 33.3 | 32.2 | 32.3 | 34.9 | 36.9 | 34.9 |
| 85° | 14.9 | 15.8 | 19.1 | 20.9 | 21.1 | 21.7 | 21.3 | 20.0 | 20.0 | 18.2 | 20.7 |
| 87.5° | 6.8 | 7.0 | 8.7 | 10.2 | 10.5 | 9.5 | 9.3 | 9.0 | 7.1 | 6.8 | 7.4 |
| 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° | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 | 424.8 |
| 2.5° | 424.5 | 425.0 | 425.2 | 425.6 | 425.8 | 425.8 | 426.1 | 426.3 |
| 5° | 428.0 | 428.5 | 428.6 | 429.4 | 429.5 | 429.4 | 429.7 | 429.8 |
| 7.5° | 433.9 | 434.8 | 435.1 | 435.9 | 435.3 | 436.0 | 436.1 | 436.1 |
| 10° | 442.8 | 443.7 | 443.8 | 444.5 | 444.1 | 444.5 | 444.5 | 444.1 |
| 12.5° | 454.4 | 454.5 | 454.0 | 454.5 | 453.9 | 454.2 | 453.6 | 453.3 |
| 15° | 467.2 | 466.6 | 465.4 | 465.4 | 464.3 | 464.6 | 464.3 | 464.2 |
| 17.5° | 479.6 | 478.5 | 477.7 | 477.4 | 476.6 | 476.3 | 475.8 | 475.8 |
| 20° | 493.3 | 492.8 | 492.4 | 491.6 | 490.7 | 489.8 | 489.7 | 490.0 |
| 22.5° | 509.9 | 509.7 | 509.7 | 509.3 | 508.1 | 507.3 | 506.7 | 506.7 |
| 25° | 532.1 | 530.4 | 530.4 | 530.3 | 529.7 | 529.2 | 528.2 | 528.7 |
| 27.5° | 556.9 | 556.1 | 556.8 | 556.7 | 556.1 | 556.1 | 555.4 | 555.4 |
| 30° | 587.9 | 587.4 | 588.5 | 587.6 | 585.9 | 585.6 | 584.9 | 584.1 |
| 32.5° | 623.2 | 623.0 | 624.5 | 623.5 | 620.6 | 619.0 | 617.7 | 617.0 |
| 35° | 662.9 | 662.9 | 664.9 | 664.2 | 661.2 | 660.1 | 657.6 | 657.2 |
| 37.5° | 706.1 | 708.9 | 712.3 | 713.0 | 710.3 | 709.7 | 707.0 | 705.6 |
| 40° | 756.9 | 760.7 | 765.7 | 767.0 | 764.1 | 763.6 | 759.8 | 758.0 |
| 42.5° | 811.1 | 817.4 | 823.7 | 824.7 | 821.9 | 819.2 | 815.7 | 814.3 |
| 45° | 871.5 | 879.1 | 887.3 | 889.5 | 885.3 | 882.0 | 877.4 | 877.4 |
| 47.5° | 939.4 | 948.9 | 958.2 | 964.1 | 960.2 | 956.7 | 951.1 | 947.7 |
| 50° | 1019.5 | 1032.6 | 1044.6 | 1050.7 | 1044.5 | 1037.9 | 1028.4 | 1025.2 |
| 52.5° | 1120.1 | 1134.2 | 1144.8 | 1141.7 | 1132.1 | 1122.8 | 1112.5 | 1108.1 |
| 55° | 1248.6 | 1253.2 | 1253.2 | 1241.3 | 1222.4 | 1206.7 | 1190.3 | 1184.9 |
| 57.5° | 1409.0 | 1390.8 | 1362.5 | 1326.9 | 1282.2 | 1243.1 | 1216.7 | 1204.2 |
| 60° | 1597.6 | 1509.8 | 1410.5 | 1312.9 | 1232.7 | 1166.5 | 1127.4 | 1109.4 |
| 62.5° | 1723.4 | 1493.4 | 1294.4 | 1137.8 | 1022.5 | 942.7 | 888.7 | 867.6 |
| 65° | 1610.8 | 1245.5 | 979.0 | 791.5 | 665.9 | 584.7 | 531.2 | 511.5 |
| 67.5° | 1179.7 | 780.4 | 521.2 | 373.6 | 273.8 | 218.4 | 196.4 | 187.2 |
| 70° | 529.6 | 274.8 | 168.4 | 131.5 | 113.4 | 104.2 | 100.0 | 98.6 |
| 72.5° | 159.7 | 115.5 | 97.3 | 87.9 | 80.7 | 76.1 | 72.9 | 72.5 |
| 75° | 96.4 | 80.2 | 71.2 | 65.5 | 61.1 | 57.3 | 55.5 | 55.1 |
| 77.5° | 67.4 | 58.8 | 54.6 | 50.7 | 47.2 | 44.2 | 42.7 | 41.5 |
| 80° | 47.3 | 43.3 | 41.3 | 39.0 | 36.7 | 34.1 | 31.8 | 30.7 |
| 82.5° | 31.6 | 30.7 | 30.7 | 29.4 | 27.4 | 25.0 | 20.4 | 19.4 |
| 85° | 20.4 | 20.2 | 20.7 | 20.0 | 18.7 | 16.0 | 13.1 | 12.4 |
| 87.5° | 9.5 | 9.7 | 10.7 | 10.5 | 10.2 | 8.4 | 6.6 | 6.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)