

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: P526835

Luminaire Tested: **GLAN-SA1D-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1D-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4617 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

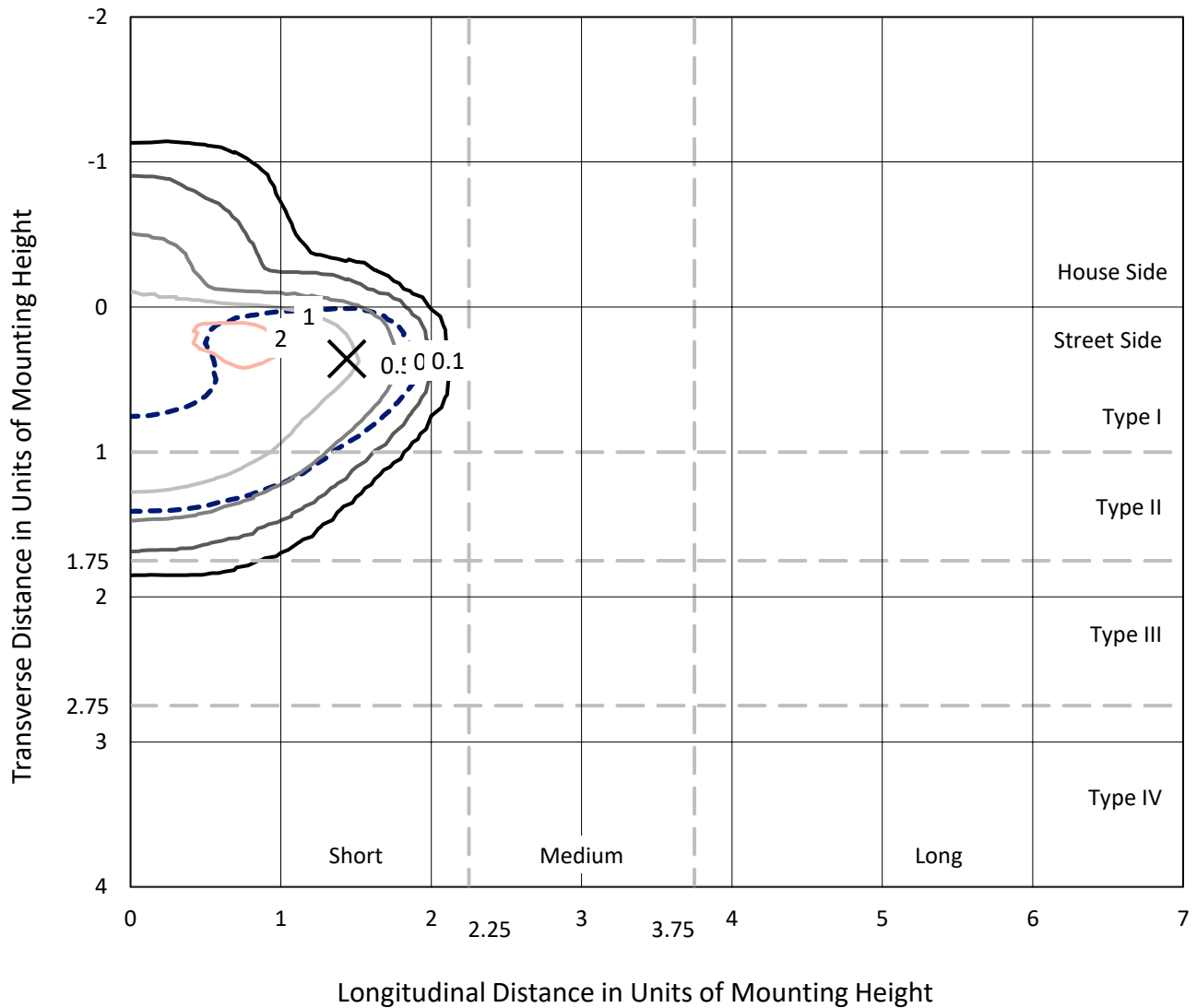
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

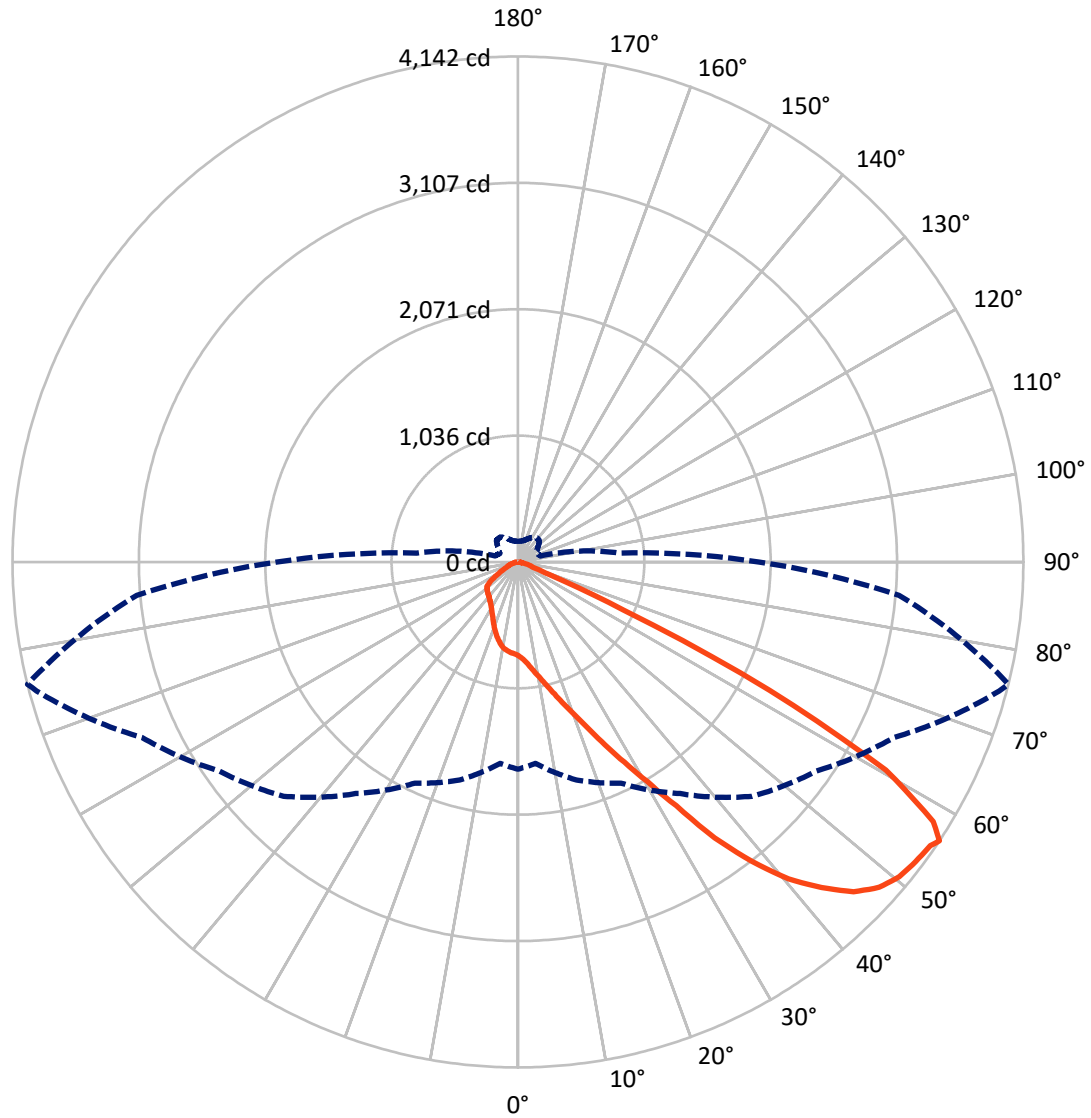
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 725.3 | 0.0 | 725.3 |
| | % Fixture | 15.7 | 0.0 | 15.7 |
| Street Side | Lumens | 3891.7 | 0.0 | 3891.7 |
| | % Fixture | 84.3 | 0.0 | 84.3 |
| Total | Lumens | 4617.0 | 0.0 | 4617.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.4 | 1.7 |
| 10°-20° | 248.7 | 5.4 |
| 20°-30° | 451.0 | 9.8 |
| 30°-40° | 777.7 | 16.8 |
| 40°-50° | 1263.5 | 27.4 |
| 50°-60° | 1331.7 | 28.8 |
| 60°-70° | 406.9 | 8.8 |
| 70°-80° | 52.2 | 1.1 |
| 80°-90° | 7.9 | 0.2 |
| 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° | 4617.0 | 100.0 |
| 0°-180° | 4617.0 | 100.0 |

Coefficient of Utilization

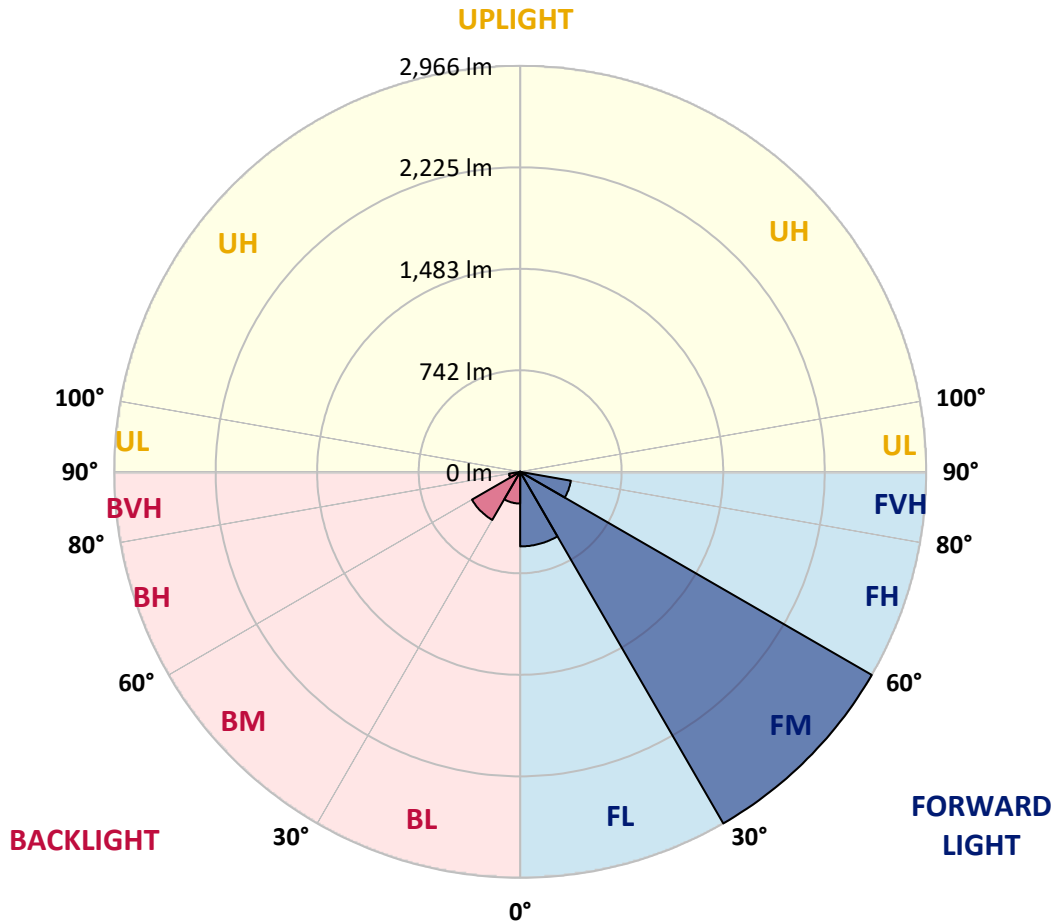


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 545.1 | 11.8 | | | |
| FM (30°-60°) | 2966.4 | 64.2 | | | |
| FH (60°-80°) | 376.3 | 8.2 | | | G0/660 |
| FVH (80°-90°) | 3.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 232.0 | 5.0 | B1/500 | | |
| BM (30°-60°) | 406.5 | 8.8 | B1/1000 | | |
| BH (60°-80°) | 82.7 | 1.8 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 |
| 2.5° | 885.1 | 864.7 | 865.5 | 863.8 | 861.3 | 851.9 | 823.8 | 819.6 | 800.8 | 795.7 | 778.7 |
| 5° | 991.5 | 973.6 | 983.8 | 968.5 | 954.0 | 945.5 | 899.6 | 878.3 | 848.5 | 837.4 | 813.6 |
| 7.5° | 1057.9 | 1049.4 | 1046.0 | 1046.8 | 1033.2 | 1011.9 | 991.5 | 944.7 | 904.7 | 896.2 | 846.0 |
| 10° | 1090.2 | 1085.1 | 1090.2 | 1087.7 | 1093.6 | 1096.2 | 1060.4 | 1032.3 | 973.6 | 959.1 | 880.8 |
| 12.5° | 1097.9 | 1108.1 | 1112.3 | 1123.4 | 1137.9 | 1162.5 | 1160.0 | 1121.7 | 1043.4 | 1034.0 | 934.5 |
| 15° | 1116.6 | 1125.1 | 1120.8 | 1138.7 | 1166.0 | 1207.7 | 1229.8 | 1223.8 | 1139.6 | 1122.5 | 996.6 |
| 17.5° | 1133.6 | 1118.3 | 1132.8 | 1168.5 | 1195.7 | 1259.6 | 1313.2 | 1337.9 | 1244.2 | 1224.7 | 1053.6 |
| 20° | 1156.6 | 1152.3 | 1149.8 | 1167.7 | 1216.2 | 1301.3 | 1407.7 | 1452.8 | 1361.7 | 1341.3 | 1135.3 |
| 22.5° | 1226.4 | 1227.2 | 1225.5 | 1199.1 | 1234.0 | 1330.2 | 1490.2 | 1601.7 | 1502.1 | 1485.1 | 1228.1 |
| 25° | 1318.3 | 1307.2 | 1298.7 | 1277.4 | 1273.2 | 1356.6 | 1573.6 | 1783.8 | 1670.6 | 1658.7 | 1328.5 |
| 27.5° | 1415.3 | 1415.3 | 1389.8 | 1370.2 | 1343.0 | 1422.1 | 1650.2 | 1960.8 | 1874.0 | 1857.9 | 1416.2 |
| 30° | 1520.8 | 1526.8 | 1523.4 | 1481.7 | 1464.7 | 1493.6 | 1728.5 | 2187.2 | 2107.2 | 2086.8 | 1560.8 |
| 32.5° | 1676.6 | 1663.8 | 1678.3 | 1643.4 | 1593.2 | 1618.7 | 1851.9 | 2389.8 | 2410.2 | 2381.3 | 1750.6 |
| 35° | 1882.5 | 1874.9 | 1865.5 | 1808.5 | 1748.9 | 1769.4 | 2026.4 | 2639.1 | 2790.6 | 2776.2 | 1942.1 |
| 37.5° | 2067.2 | 2063.0 | 2055.3 | 2016.2 | 1947.2 | 1971.9 | 2224.7 | 2898.7 | 3161.7 | 3114.0 | 2212.8 |
| 40° | 2261.3 | 2284.2 | 2259.6 | 2224.7 | 2161.7 | 2216.2 | 2457.9 | 3052.7 | 3474.0 | 3416.2 | 2419.6 |
| 42.5° | 2524.2 | 2506.4 | 2517.4 | 2453.6 | 2419.6 | 2479.1 | 2691.9 | 3206.8 | 3716.6 | 3647.6 | 2639.1 |
| 45° | 2804.2 | 2805.1 | 2775.3 | 2754.9 | 2666.4 | 2731.0 | 2835.7 | 3291.9 | 3909.8 | 3856.1 | 2805.1 |
| 47.5° | 2983.8 | 2983.0 | 3015.3 | 3047.6 | 2956.6 | 2892.8 | 2933.6 | 3372.7 | 4009.3 | 3984.7 | 2865.5 |
| 50° | 2955.7 | 2964.2 | 3005.9 | 3126.8 | 3174.5 | 3088.5 | 3025.5 | 3348.9 | 4054.4 | 4051.9 | 2917.4 |
| 52.5° | 2571.1 | 2599.1 | 2668.9 | 2843.4 | 3083.4 | 3189.8 | 3121.7 | 3393.2 | 4076.6 | 4080.8 | 2994.9 |
| 55° | 1957.4 | 1972.8 | 2105.5 | 2317.4 | 2583.0 | 2947.2 | 3083.4 | 3428.1 | 4093.6 | 4101.3 | 3088.5 |
| 56° | 1697.9 | 1657.0 | 1848.5 | 1999.1 | 2316.6 | 2714.9 | 2986.4 | 3400.8 | 4083.4 | 4142.1 | 3135.3 |
| 57.5° | 1281.7 | 1254.5 | 1409.4 | 1597.4 | 1903.0 | 2323.4 | 2685.1 | 3272.3 | 4014.4 | 4013.6 | 3068.1 |
| 60° | 779.6 | 752.3 | 871.5 | 982.1 | 1153.2 | 1430.6 | 1814.5 | 2605.9 | 3394.0 | 3465.5 | 2484.2 |
| 62.5° | 463.8 | 480.8 | 598.3 | 665.5 | 720.8 | 749.8 | 938.7 | 1548.9 | 2264.7 | 2315.7 | 1541.3 |
| 65° | 308.9 | 314.9 | 403.4 | 514.0 | 538.7 | 428.9 | 382.1 | 627.2 | 982.1 | 950.6 | 635.7 |
| 67.5° | 190.6 | 204.3 | 270.6 | 386.4 | 428.1 | 313.2 | 181.3 | 234.0 | 270.6 | 270.6 | 183.8 |
| 70° | 115.7 | 122.6 | 180.4 | 263.0 | 293.6 | 201.7 | 131.9 | 131.9 | 130.2 | 127.7 | 109.8 |
| 72.5° | 55.3 | 59.6 | 91.9 | 135.3 | 137.9 | 106.4 | 102.1 | 111.5 | 108.9 | 108.1 | 91.1 |
| 75° | 23.8 | 25.5 | 32.3 | 42.6 | 48.5 | 45.1 | 62.1 | 80.0 | 82.6 | 80.0 | 65.5 |
| 77.5° | 7.7 | 8.5 | 11.9 | 15.3 | 16.2 | 19.6 | 26.4 | 33.2 | 38.3 | 35.7 | 32.3 |
| 80° | 0.9 | 1.7 | 3.4 | 7.7 | 11.9 | 15.3 | 19.6 | 22.1 | 24.7 | 24.7 | 23.0 |
| 82.5° | 0.9 | 0.9 | 3.4 | 6.8 | 11.1 | 14.5 | 18.7 | 21.3 | 24.7 | 25.5 | 23.8 |
| 85° | 0.0 | 0.9 | 2.6 | 6.0 | 9.4 | 9.4 | 8.5 | 8.5 | 6.0 | 6.0 | 6.0 |
| 87.5° | 0.0 | 0.0 | 0.9 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 | 768.5 |
| 2.5° | 775.3 | 773.6 | 750.6 | 736.2 | 728.5 | 713.2 | 703.8 | 697.0 | 691.9 | 686.0 | 686.8 |
| 5° | 785.5 | 779.6 | 741.3 | 714.9 | 683.4 | 666.4 | 651.9 | 640.0 | 632.3 | 630.6 | 627.2 |
| 7.5° | 814.5 | 783.0 | 725.1 | 677.4 | 637.4 | 620.4 | 607.7 | 600.0 | 603.4 | 595.7 | 601.7 |
| 10° | 836.6 | 789.8 | 705.5 | 636.6 | 596.6 | 583.8 | 577.0 | 583.0 | 591.5 | 588.1 | 583.8 |
| 12.5° | 863.8 | 796.6 | 674.0 | 597.4 | 560.0 | 550.6 | 562.6 | 573.6 | 590.6 | 597.4 | 588.9 |
| 15° | 894.5 | 804.3 | 634.0 | 552.3 | 528.5 | 536.2 | 556.6 | 576.2 | 593.2 | 601.7 | 606.8 |
| 17.5° | 931.9 | 801.7 | 594.9 | 516.6 | 498.7 | 520.8 | 545.5 | 563.4 | 588.9 | 601.7 | 598.3 |
| 20° | 966.8 | 793.2 | 551.5 | 480.8 | 481.7 | 502.1 | 522.6 | 551.5 | 565.1 | 582.1 | 576.2 |
| 22.5° | 1000.0 | 777.9 | 506.4 | 456.2 | 456.2 | 487.7 | 497.9 | 516.6 | 528.5 | 537.0 | 536.2 |
| 25° | 1046.8 | 748.9 | 468.9 | 432.3 | 442.6 | 463.0 | 471.5 | 477.4 | 472.3 | 479.1 | 480.0 |
| 27.5° | 1080.0 | 719.1 | 438.3 | 411.1 | 429.8 | 445.1 | 442.6 | 439.1 | 427.2 | 417.9 | 423.8 |
| 30° | 1115.7 | 684.3 | 411.9 | 396.6 | 406.8 | 420.4 | 410.2 | 400.0 | 381.3 | 366.0 | 366.8 |
| 32.5° | 1166.8 | 668.1 | 388.9 | 379.6 | 393.2 | 394.9 | 383.8 | 368.5 | 349.8 | 335.3 | 334.5 |
| 35° | 1262.1 | 657.9 | 369.4 | 368.5 | 371.1 | 371.9 | 360.8 | 342.1 | 334.5 | 322.6 | 326.8 |
| 37.5° | 1357.4 | 652.8 | 355.7 | 352.3 | 351.5 | 352.3 | 339.6 | 321.7 | 336.2 | 335.3 | 337.0 |
| 40° | 1479.1 | 675.7 | 336.2 | 331.9 | 332.8 | 332.8 | 316.6 | 311.5 | 337.0 | 339.6 | 340.4 |
| 42.5° | 1602.5 | 704.7 | 323.4 | 309.8 | 313.2 | 313.2 | 304.7 | 298.7 | 316.6 | 299.6 | 297.0 |
| 45° | 1709.8 | 747.2 | 309.8 | 287.7 | 296.2 | 300.4 | 297.9 | 287.7 | 276.6 | 247.7 | 247.7 |
| 47.5° | 1744.7 | 784.7 | 293.6 | 266.4 | 273.2 | 291.9 | 284.3 | 263.0 | 243.4 | 219.6 | 217.9 |
| 50° | 1805.9 | 825.5 | 280.8 | 241.7 | 256.2 | 279.1 | 271.5 | 250.2 | 228.1 | 211.1 | 211.9 |
| 52.5° | 1868.9 | 872.3 | 257.0 | 212.8 | 230.6 | 268.9 | 268.9 | 245.1 | 211.1 | 199.1 | 197.4 |
| 55° | 1963.4 | 870.6 | 214.5 | 174.5 | 206.0 | 253.6 | 257.9 | 219.6 | 188.9 | 179.6 | 179.6 |
| 56° | 1977.0 | 831.5 | 193.2 | 163.4 | 194.9 | 249.4 | 250.2 | 212.8 | 180.4 | 170.2 | 170.2 |
| 57.5° | 1874.9 | 750.6 | 169.4 | 149.8 | 181.3 | 241.7 | 242.6 | 206.8 | 173.6 | 159.1 | 157.4 |
| 60° | 1442.5 | 508.1 | 141.3 | 133.6 | 164.3 | 217.9 | 222.1 | 188.1 | 152.3 | 141.3 | 140.4 |
| 62.5° | 814.5 | 281.7 | 124.3 | 120.9 | 141.3 | 185.5 | 198.3 | 164.3 | 129.4 | 123.4 | 125.1 |
| 65° | 371.9 | 154.9 | 104.7 | 97.9 | 114.0 | 143.0 | 160.0 | 135.3 | 106.4 | 99.6 | 99.6 |
| 67.5° | 136.2 | 105.5 | 89.4 | 77.4 | 80.0 | 92.8 | 103.8 | 87.7 | 70.6 | 60.4 | 63.0 |
| 70° | 97.0 | 88.5 | 78.3 | 67.2 | 62.1 | 60.4 | 59.6 | 49.4 | 34.9 | 27.2 | 28.9 |
| 72.5° | 78.3 | 73.2 | 65.5 | 57.0 | 48.5 | 40.9 | 34.9 | 25.5 | 16.2 | 11.1 | 10.2 |
| 75° | 56.2 | 53.6 | 47.7 | 40.9 | 34.0 | 28.9 | 23.8 | 16.2 | 8.5 | 4.3 | 4.3 |
| 77.5° | 28.9 | 28.9 | 28.1 | 25.5 | 21.3 | 17.0 | 13.6 | 9.4 | 5.1 | 1.7 | 1.7 |
| 80° | 22.1 | 23.8 | 24.7 | 22.1 | 19.6 | 15.3 | 11.1 | 6.8 | 3.4 | 0.9 | 0.9 |
| 82.5° | 21.3 | 24.7 | 26.4 | 23.0 | 19.6 | 14.5 | 11.1 | 6.8 | 3.4 | 0.9 | 0.9 |
| 85° | 5.1 | 5.1 | 7.7 | 8.5 | 11.1 | 11.9 | 9.4 | 6.0 | 2.6 | 0.9 | 0.9 |
| 87.5° | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)