

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631118

Luminaire Tested: GWS-SA1F-722-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-722-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3686.2 lumens
Efficiency: N/A
Efficacy: 54.9 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

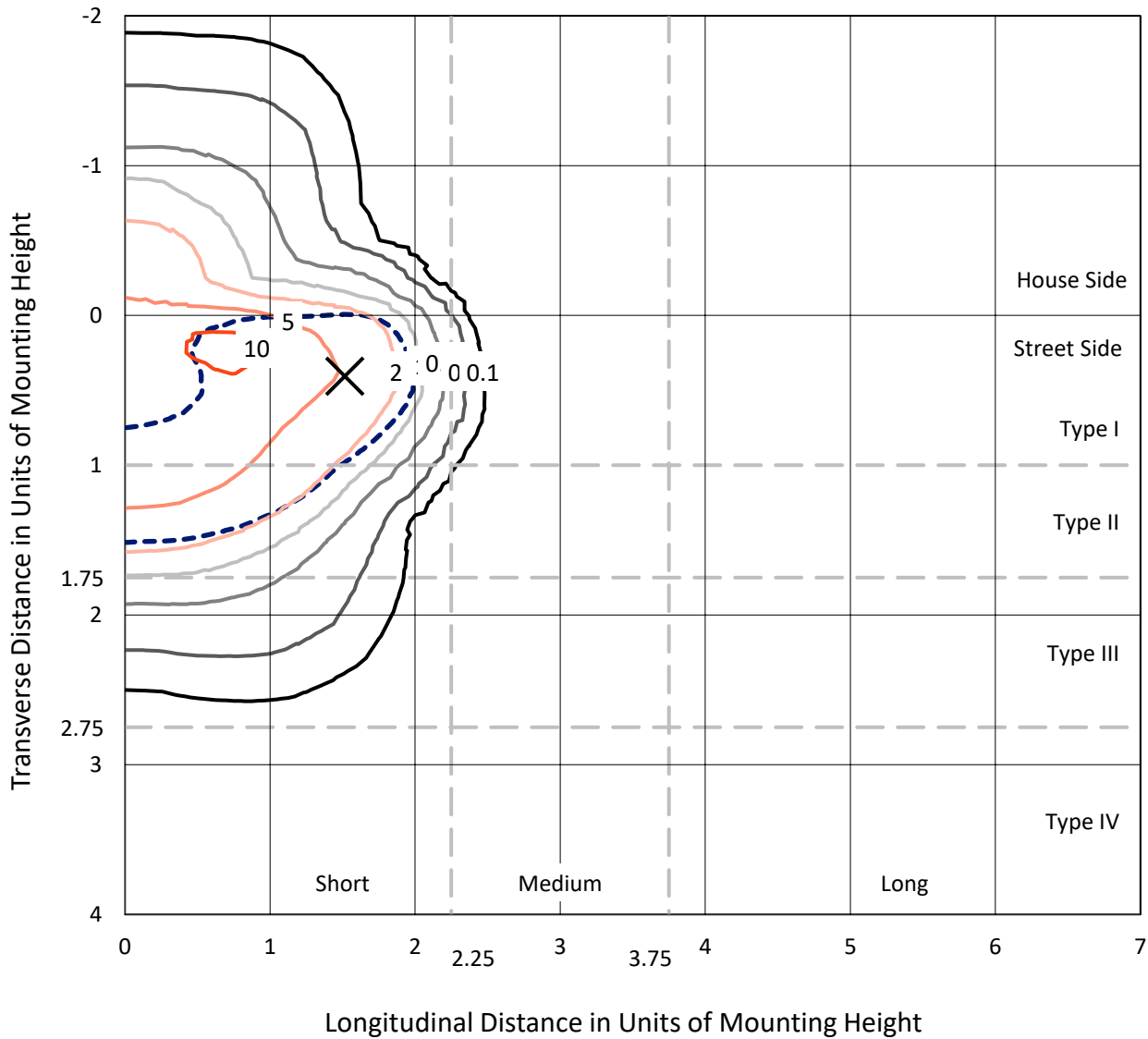
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

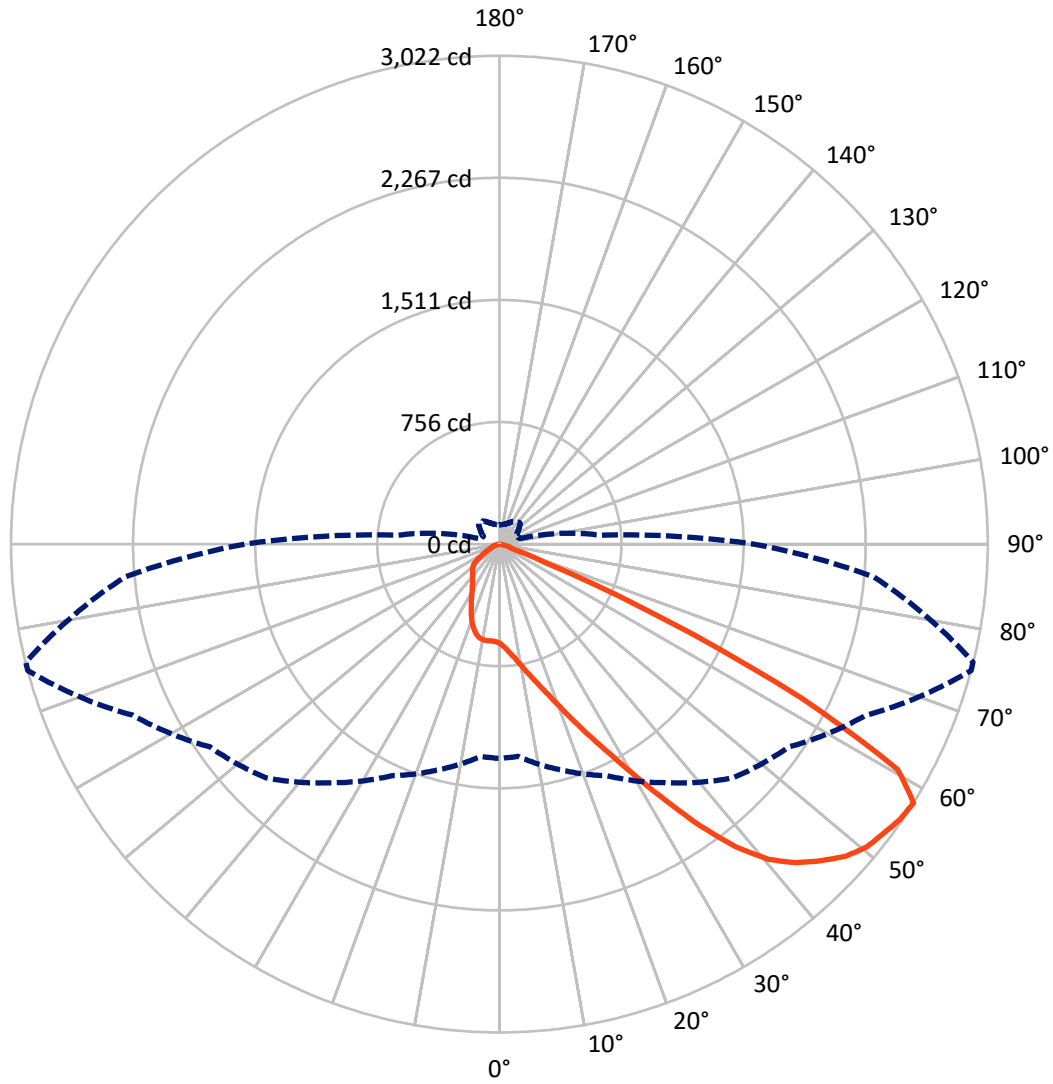
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 602.1 | 0.0 | 602.1 |
| | % Fixture | 16.3 | 0.0 | 16.3 |
| Street Side | Lumens | 3084.1 | 0.0 | 3084.1 |
| | % Fixture | 83.7 | 0.0 | 83.7 |
| Total | Lumens | 3686.2 | 0.0 | 3686.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.6 | 1.7 |
| 10°-20° | 203.2 | 5.5 |
| 20°-30° | 372.2 | 10.1 |
| 30°-40° | 617.4 | 16.8 |
| 40°-50° | 943.0 | 25.6 |
| 50°-60° | 1059.6 | 28.7 |
| 60°-70° | 390.8 | 10.6 |
| 70°-80° | 37.4 | 1.0 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 3686.2 | 100.0 |
| 0°-180° | 3686.2 | 100.0 |

Coefficient of Utilization



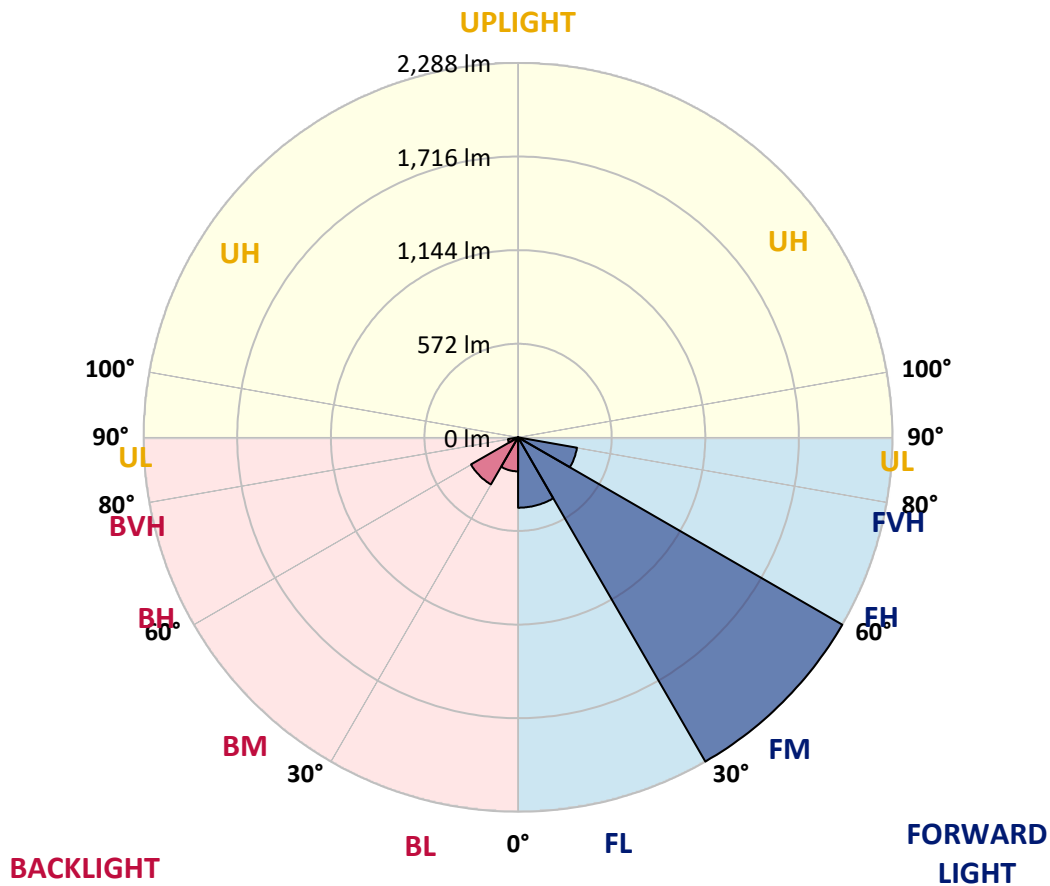
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 430.2 | 11.7 | | | |
| FM (30°-60°) | 2288.2 | 62.1 | | | |
| FH (60°-80°) | 365.7 | 9.9 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 207.8 | 5.6 | B1/500 | | |
| BM (30°-60°) | 331.8 | 9.0 | B1/1000 | | |
| BH (60°-80°) | 62.5 | 1.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | 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° | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 |
| 2.5° | 686.9 | 694.0 | 691.8 | 687.3 | 684.7 | 675.3 | 669.5 | 652.6 | 640.6 | 639.3 | 628.2 |
| 5° | 773.6 | 772.3 | 770.5 | 765.2 | 760.7 | 746.0 | 728.7 | 700.2 | 674.9 | 671.7 | 648.2 |
| 7.5° | 821.2 | 822.1 | 823.0 | 822.1 | 819.0 | 807.9 | 788.8 | 755.4 | 716.7 | 714.0 | 676.6 |
| 10° | 840.8 | 842.6 | 847.0 | 855.5 | 863.0 | 862.2 | 851.0 | 816.8 | 769.2 | 764.7 | 714.5 |
| 12.5° | 850.1 | 852.4 | 859.5 | 875.5 | 896.0 | 912.0 | 913.8 | 883.1 | 830.6 | 823.4 | 759.4 |
| 15° | 863.0 | 865.3 | 874.2 | 895.1 | 924.9 | 956.5 | 976.9 | 957.4 | 898.6 | 891.1 | 808.8 |
| 17.5° | 868.8 | 871.9 | 884.8 | 912.4 | 951.1 | 999.6 | 1045.9 | 1044.1 | 979.2 | 973.4 | 866.2 |
| 20° | 879.9 | 882.2 | 893.7 | 923.5 | 970.3 | 1040.1 | 1118.0 | 1146.0 | 1077.5 | 1069.0 | 935.6 |
| 22.5° | 915.1 | 916.0 | 921.3 | 940.0 | 983.6 | 1069.5 | 1191.4 | 1264.8 | 1193.6 | 1182.5 | 1013.4 |
| 25° | 972.5 | 972.0 | 974.3 | 977.4 | 1009.4 | 1099.3 | 1262.1 | 1398.7 | 1326.6 | 1314.6 | 1101.5 |
| 27.5° | 1045.4 | 1045.4 | 1050.8 | 1041.9 | 1054.8 | 1136.2 | 1331.9 | 1552.6 | 1481.4 | 1464.5 | 1198.0 |
| 30° | 1131.3 | 1130.9 | 1143.3 | 1129.1 | 1133.1 | 1194.5 | 1407.1 | 1720.3 | 1668.3 | 1647.3 | 1309.2 |
| 32.5° | 1247.9 | 1245.2 | 1259.4 | 1239.8 | 1226.5 | 1282.6 | 1498.8 | 1895.6 | 1892.0 | 1860.0 | 1448.9 |
| 35° | 1395.1 | 1390.7 | 1395.1 | 1376.0 | 1352.0 | 1405.8 | 1618.9 | 2070.4 | 2140.3 | 2106.4 | 1615.3 |
| 37.5° | 1541.5 | 1555.7 | 1560.6 | 1527.7 | 1508.1 | 1561.9 | 1763.5 | 2227.0 | 2377.4 | 2342.2 | 1788.4 |
| 40° | 1714.1 | 1709.6 | 1726.5 | 1689.6 | 1677.2 | 1736.8 | 1904.9 | 2343.6 | 2565.1 | 2531.7 | 1942.3 |
| 42.5° | 1841.3 | 1849.3 | 1870.2 | 1849.8 | 1840.0 | 1896.0 | 2023.7 | 2411.6 | 2695.5 | 2662.5 | 2052.2 |
| 45° | 1993.9 | 1999.7 | 2007.7 | 1990.8 | 1980.5 | 2035.7 | 2109.6 | 2441.4 | 2794.7 | 2759.1 | 2126.0 |
| 47.5° | 2158.9 | 2163.4 | 2163.4 | 2128.7 | 2095.8 | 2118.5 | 2166.9 | 2458.3 | 2885.9 | 2851.6 | 2180.7 |
| 50° | 2277.3 | 2279.5 | 2299.1 | 2274.6 | 2203.0 | 2167.8 | 2193.2 | 2474.8 | 2946.4 | 2914.3 | 2198.5 |
| 52.5° | 2172.3 | 2169.6 | 2234.1 | 2284.8 | 2304.0 | 2234.1 | 2238.6 | 2498.8 | 2975.7 | 2948.1 | 2212.8 |
| 55° | 1829.3 | 1824.8 | 1915.6 | 2038.8 | 2207.4 | 2296.9 | 2293.3 | 2513.1 | 3008.2 | 2991.3 | 2264.4 |
| 57.5° | 1326.1 | 1318.6 | 1444.9 | 1581.9 | 1803.0 | 2045.5 | 2187.9 | 2505.0 | 3022.4 | 3021.1 | 2324.4 |
| 60° | 797.2 | 791.0 | 910.2 | 1054.3 | 1225.2 | 1469.0 | 1705.2 | 2243.9 | 2832.0 | 2834.7 | 2168.3 |
| 62.5° | 490.7 | 496.5 | 604.1 | 677.5 | 741.1 | 814.6 | 951.1 | 1509.4 | 2098.0 | 2115.3 | 1523.7 |
| 65° | 330.1 | 334.5 | 434.2 | 526.7 | 526.7 | 430.6 | 369.7 | 721.6 | 1119.3 | 1089.9 | 720.7 |
| 67.5° | 221.5 | 226.4 | 305.2 | 413.3 | 428.9 | 300.3 | 149.9 | 215.3 | 311.9 | 302.5 | 178.4 |
| 70° | 130.3 | 135.7 | 203.3 | 283.4 | 312.3 | 209.1 | 100.1 | 91.2 | 88.5 | 85.9 | 69.4 |
| 72.5° | 58.3 | 60.5 | 103.7 | 144.1 | 131.7 | 88.1 | 70.7 | 73.0 | 69.0 | 67.6 | 56.5 |
| 75° | 17.8 | 18.7 | 26.7 | 31.1 | 31.6 | 31.6 | 42.7 | 57.4 | 54.3 | 54.7 | 43.6 |
| 77.5° | 4.4 | 4.4 | 7.1 | 6.7 | 3.6 | 3.1 | 8.0 | 12.9 | 13.3 | 12.0 | 8.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 | 614.8 |
| 2.5° | 623.3 | 611.7 | 604.1 | 593.5 | 585.9 | 577.9 | 570.8 | 565.0 | 561.9 | 561.0 | 561.4 |
| 5° | 637.5 | 619.3 | 601.5 | 581.0 | 566.8 | 553.4 | 542.7 | 534.3 | 530.3 | 528.9 | 528.9 |
| 7.5° | 659.3 | 633.9 | 602.4 | 570.3 | 546.3 | 525.4 | 512.9 | 503.6 | 500.0 | 499.1 | 496.5 |
| 10° | 687.8 | 653.1 | 601.0 | 551.2 | 517.4 | 495.6 | 486.7 | 484.0 | 485.4 | 485.8 | 485.4 |
| 12.5° | 722.0 | 673.1 | 592.6 | 523.2 | 486.7 | 473.3 | 474.2 | 481.3 | 489.4 | 493.4 | 494.2 |
| 15° | 758.5 | 691.3 | 573.4 | 489.8 | 460.4 | 460.0 | 472.9 | 489.4 | 504.9 | 511.6 | 513.4 |
| 17.5° | 799.4 | 706.0 | 544.1 | 454.2 | 437.7 | 450.7 | 473.8 | 499.1 | 520.1 | 531.2 | 533.4 |
| 20° | 844.4 | 718.0 | 506.7 | 420.8 | 417.7 | 440.9 | 472.9 | 504.0 | 529.8 | 542.3 | 544.5 |
| 22.5° | 891.1 | 726.5 | 463.6 | 390.1 | 399.5 | 429.7 | 464.4 | 494.7 | 519.2 | 533.4 | 535.2 |
| 25° | 944.5 | 727.4 | 419.5 | 364.3 | 382.6 | 414.6 | 444.0 | 468.9 | 489.4 | 501.8 | 503.1 |
| 27.5° | 991.2 | 716.7 | 380.4 | 343.4 | 367.0 | 395.9 | 415.5 | 429.3 | 443.5 | 450.7 | 451.1 |
| 30° | 1045.0 | 698.0 | 343.4 | 326.5 | 351.0 | 372.8 | 382.6 | 385.7 | 387.0 | 388.4 | 386.6 |
| 32.5° | 1109.1 | 675.3 | 315.9 | 310.1 | 332.8 | 347.4 | 350.1 | 343.9 | 336.3 | 325.6 | 323.0 |
| 35° | 1187.8 | 654.8 | 293.2 | 294.1 | 312.7 | 321.6 | 319.4 | 306.1 | 291.4 | 278.5 | 276.3 |
| 37.5° | 1273.2 | 637.5 | 275.8 | 278.5 | 290.9 | 297.2 | 290.5 | 275.8 | 269.1 | 258.0 | 258.5 |
| 40° | 1348.8 | 623.3 | 260.2 | 262.9 | 268.7 | 274.5 | 263.8 | 254.0 | 266.5 | 265.6 | 266.5 |
| 42.5° | 1402.7 | 611.2 | 246.9 | 245.6 | 249.6 | 253.6 | 245.6 | 240.7 | 261.6 | 255.8 | 258.9 |
| 45° | 1434.3 | 600.1 | 235.8 | 227.8 | 234.0 | 241.1 | 235.8 | 229.6 | 236.7 | 210.0 | 207.8 |
| 47.5° | 1455.6 | 593.9 | 226.0 | 210.4 | 221.5 | 234.0 | 222.9 | 207.8 | 197.5 | 174.4 | 172.6 |
| 50° | 1457.8 | 590.8 | 214.4 | 192.6 | 206.9 | 220.2 | 207.3 | 186.4 | 171.7 | 161.5 | 160.2 |
| 52.5° | 1469.4 | 597.0 | 198.4 | 169.9 | 185.5 | 206.9 | 198.0 | 177.1 | 157.0 | 148.1 | 146.4 |
| 55° | 1521.0 | 623.3 | 171.7 | 138.8 | 161.5 | 196.6 | 190.4 | 157.9 | 138.8 | 133.5 | 132.1 |
| 57.5° | 1574.4 | 628.6 | 135.2 | 109.9 | 140.6 | 182.0 | 173.9 | 145.5 | 126.8 | 120.6 | 119.2 |
| 60° | 1439.6 | 517.8 | 101.4 | 90.8 | 124.1 | 168.2 | 161.0 | 137.9 | 116.1 | 108.5 | 107.2 |
| 62.5° | 945.8 | 279.8 | 80.5 | 77.0 | 104.5 | 142.4 | 146.8 | 124.6 | 103.7 | 95.6 | 95.2 |
| 65° | 436.0 | 129.9 | 61.8 | 60.9 | 81.9 | 113.4 | 126.3 | 109.0 | 87.6 | 80.5 | 80.5 |
| 67.5° | 118.8 | 64.5 | 48.5 | 44.9 | 55.6 | 76.1 | 92.1 | 81.4 | 62.3 | 53.8 | 53.4 |
| 70° | 59.2 | 52.0 | 43.6 | 38.7 | 40.0 | 47.2 | 54.3 | 45.4 | 31.6 | 25.8 | 25.4 |
| 72.5° | 48.5 | 42.7 | 36.9 | 32.9 | 30.3 | 28.9 | 28.0 | 22.7 | 14.7 | 11.1 | 10.7 |
| 75° | 36.0 | 30.7 | 26.2 | 21.4 | 18.2 | 16.9 | 15.1 | 11.1 | 6.2 | 3.6 | 3.1 |
| 77.5° | 8.0 | 7.6 | 7.1 | 5.3 | 4.9 | 4.0 | 3.1 | 2.2 | 0.9 | 0.0 | 0.0 |
| 80° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)