

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: P632606

Luminaire Tested: GWS-SA2D-722-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8533.1 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

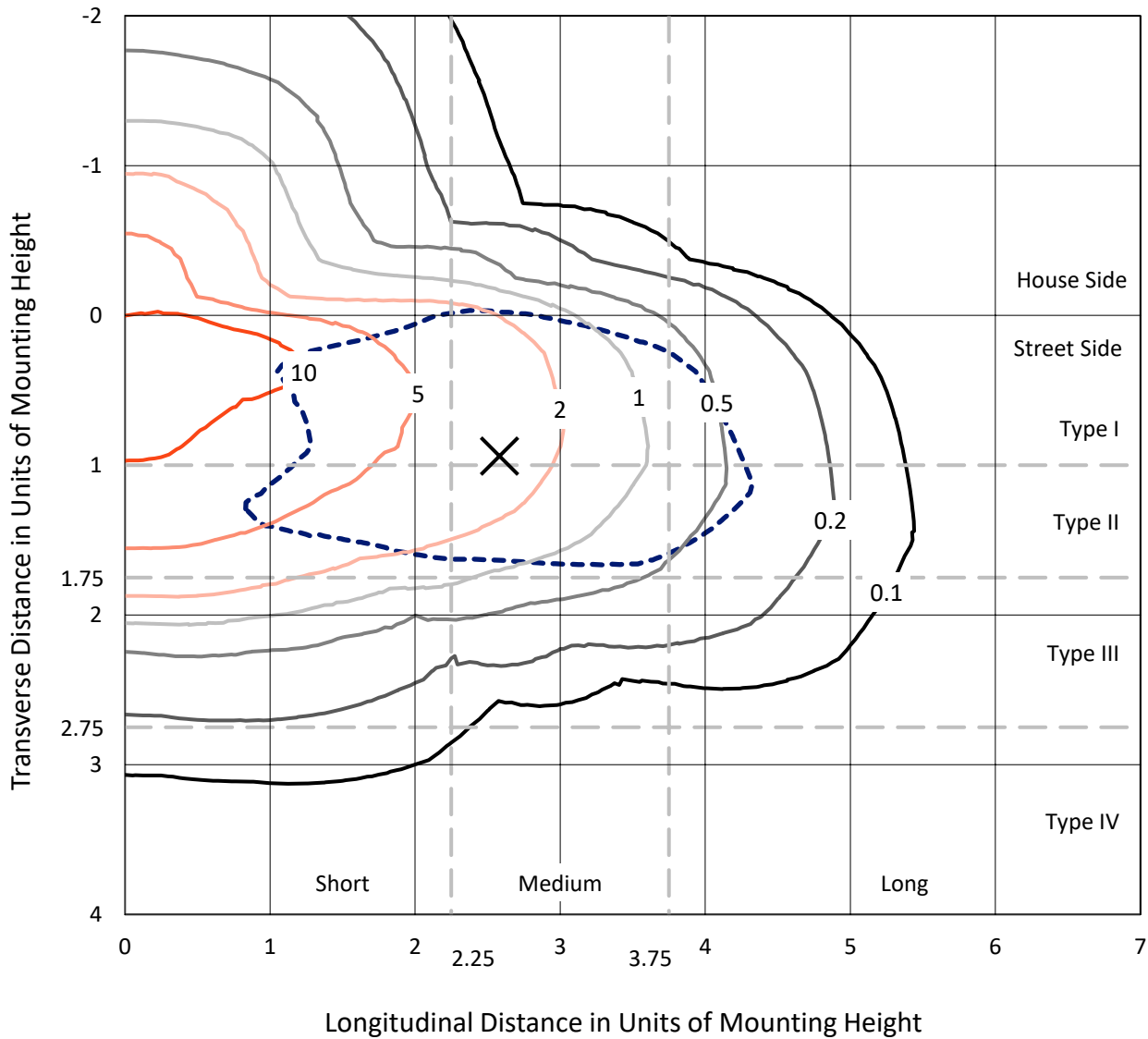
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

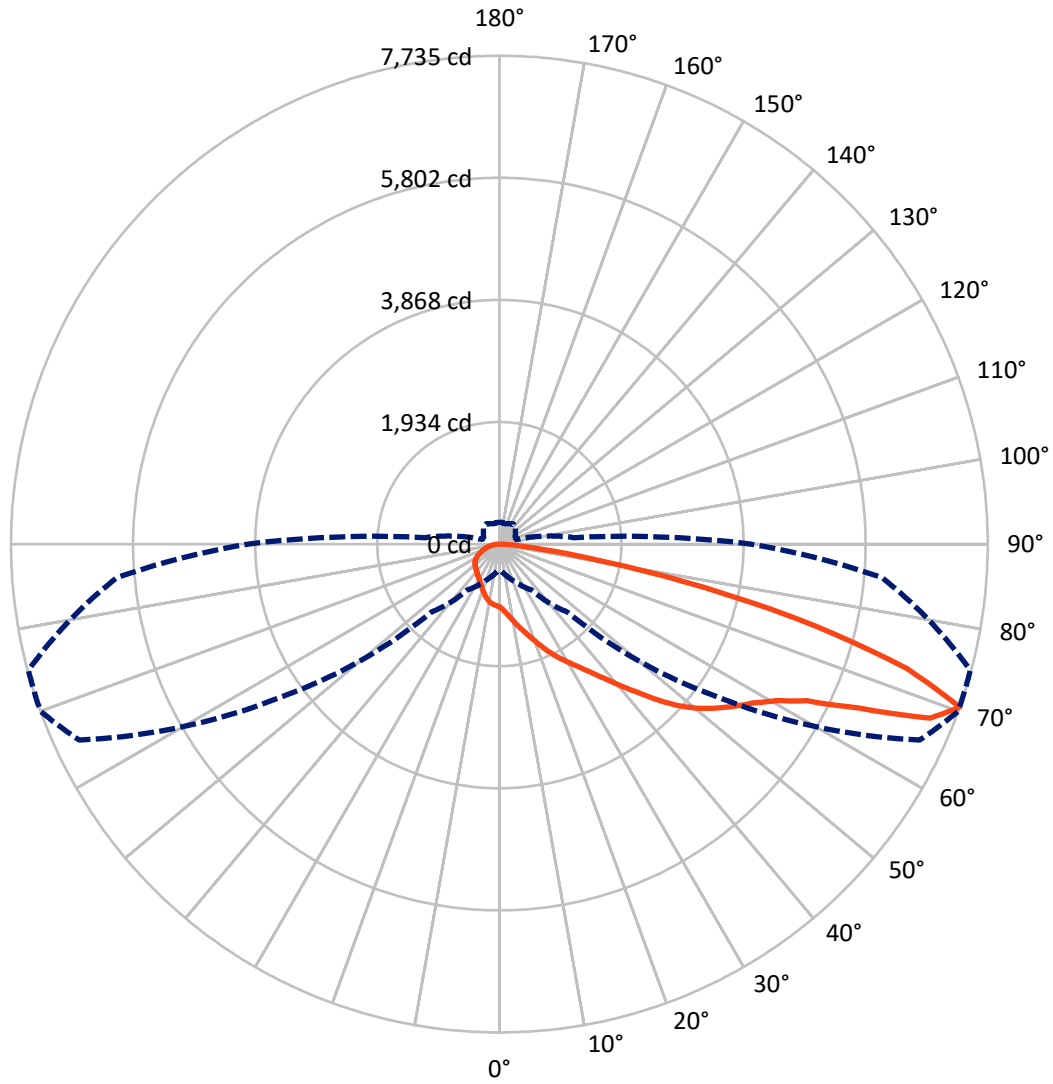
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1529.2 | 0.0 | 1529.2 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 7003.9 | 0.0 | 7003.9 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 8533.1 | 0.0 | 8533.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.1 | 1.2 |
| 10°-20° | 329.0 | 3.9 |
| 20°-30° | 582.9 | 6.8 |
| 30°-40° | 877.2 | 10.3 |
| 40°-50° | 1327.2 | 15.6 |
| 50°-60° | 1901.2 | 22.3 |
| 60°-70° | 2101.6 | 24.6 |
| 70°-80° | 1186.0 | 13.9 |
| 80°-90° | 126.9 | 1.5 |
| 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° | 8533.1 | 100.0 |
| 0°-180° | 8533.1 | 100.0 |

Coefficient of Utilization



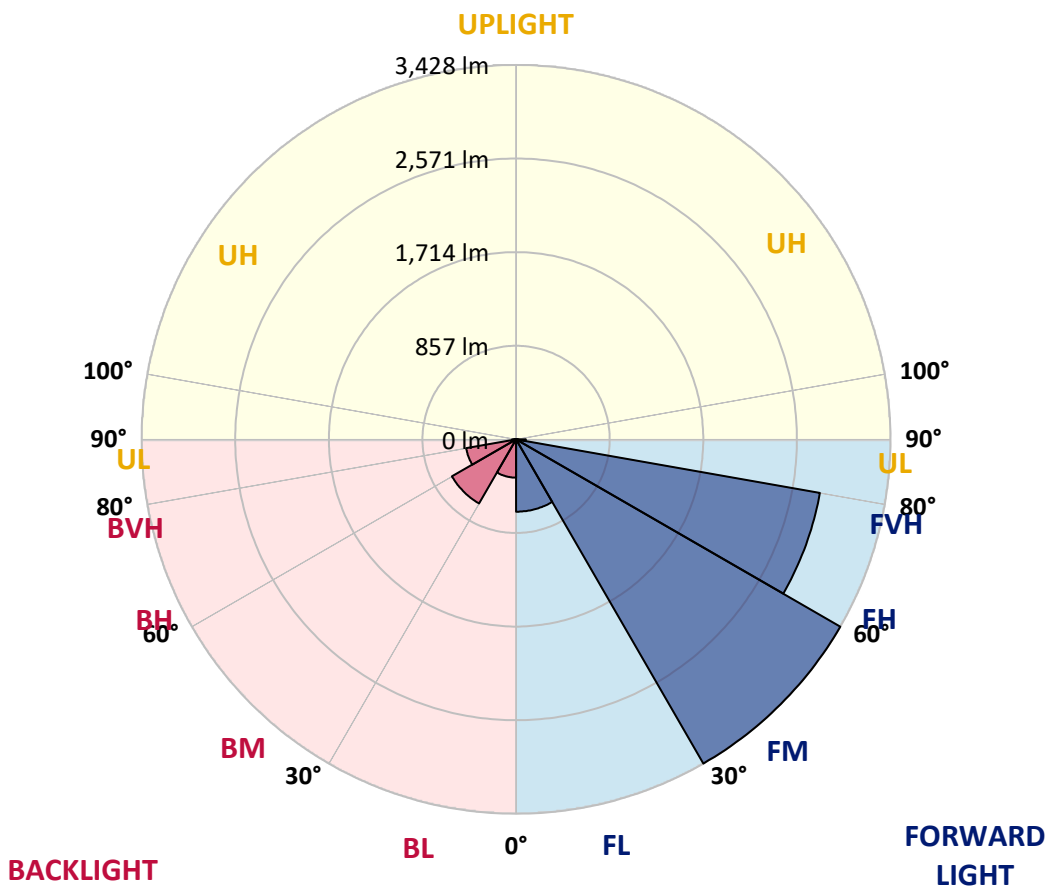
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 662.4 | 7.8 | | | |
| FM (30°-60°) | 3427.7 | 40.2 | | | |
| FH (60°-80°) | 2824.1 | 33.1 | | | G2/5000 |
| FVH (80°-90°) | 89.7 | 1.1 | | | G1/100 |
| BL (0°-30°) | 350.6 | 4.1 | B1/500 | | |
| BM (30°-60°) | 677.9 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 463.5 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 37.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 |
| 2.5° | 1102.4 | 1100.6 | 1101.8 | 1100.6 | 1093.8 | 1077.1 | 1063.6 | 1046.3 | 1034.6 | 1027.8 | 1011.8 |
| 5° | 1231.9 | 1230.0 | 1225.7 | 1219.6 | 1207.2 | 1184.4 | 1150.5 | 1112.9 | 1090.1 | 1072.8 | 1038.9 |
| 7.5° | 1325.0 | 1325.0 | 1324.4 | 1317.0 | 1308.4 | 1284.3 | 1244.2 | 1194.9 | 1161.6 | 1132.0 | 1076.5 |
| 10° | 1372.5 | 1375.6 | 1379.9 | 1390.4 | 1388.5 | 1375.6 | 1337.9 | 1284.9 | 1243.0 | 1208.5 | 1125.8 |
| 12.5° | 1398.4 | 1400.2 | 1407.6 | 1429.2 | 1451.4 | 1454.5 | 1432.3 | 1376.8 | 1331.2 | 1284.9 | 1180.7 |
| 15° | 1431.7 | 1432.3 | 1442.1 | 1468.0 | 1500.7 | 1533.4 | 1527.8 | 1472.4 | 1425.5 | 1374.3 | 1241.8 |
| 17.5° | 1457.6 | 1461.9 | 1479.8 | 1510.0 | 1550.7 | 1595.7 | 1622.8 | 1588.3 | 1530.3 | 1471.7 | 1308.4 |
| 20° | 1466.8 | 1469.9 | 1493.3 | 1539.6 | 1595.1 | 1658.6 | 1719.0 | 1709.7 | 1651.2 | 1582.1 | 1383.6 |
| 22.5° | 1500.1 | 1500.1 | 1517.4 | 1556.2 | 1621.6 | 1714.1 | 1812.1 | 1836.1 | 1784.3 | 1703.6 | 1464.3 |
| 25° | 1573.5 | 1571.0 | 1579.0 | 1595.1 | 1644.4 | 1758.4 | 1904.0 | 1976.1 | 1918.1 | 1827.5 | 1545.1 |
| 27.5° | 1674.0 | 1672.7 | 1672.1 | 1674.6 | 1691.2 | 1797.3 | 1981.6 | 2106.8 | 2048.8 | 1946.5 | 1617.3 |
| 30° | 1783.1 | 1779.4 | 1787.4 | 1780.0 | 1776.3 | 1843.5 | 2047.6 | 2224.0 | 2178.9 | 2064.3 | 1677.1 |
| 32.5° | 1931.7 | 1924.9 | 1923.1 | 1899.0 | 1884.2 | 1915.7 | 2100.6 | 2357.1 | 2321.4 | 2191.3 | 1744.3 |
| 35° | 2127.8 | 2121.6 | 2090.2 | 2051.9 | 2008.2 | 2023.0 | 2166.6 | 2487.2 | 2489.7 | 2350.3 | 1832.4 |
| 37.5° | 2325.7 | 2326.9 | 2302.3 | 2212.2 | 2167.2 | 2158.6 | 2267.1 | 2645.7 | 2698.7 | 2540.2 | 1946.5 |
| 40° | 2490.3 | 2497.7 | 2497.7 | 2402.8 | 2335.5 | 2327.5 | 2408.3 | 2833.7 | 2939.2 | 2773.3 | 2090.8 |
| 42.5° | 2615.5 | 2622.3 | 2643.8 | 2575.4 | 2504.5 | 2532.2 | 2579.7 | 3022.4 | 3211.7 | 3061.2 | 2273.3 |
| 45° | 2753.0 | 2758.5 | 2770.2 | 2730.8 | 2689.5 | 2763.4 | 2773.9 | 3248.1 | 3523.7 | 3384.3 | 2485.4 |
| 47.5° | 2935.5 | 2930.5 | 2931.8 | 2902.8 | 2870.7 | 2990.3 | 2987.9 | 3438.0 | 3825.2 | 3738.2 | 2715.4 |
| 50° | 3162.4 | 3171.6 | 3163.0 | 3105.6 | 3068.0 | 3177.2 | 3191.3 | 3648.2 | 4090.3 | 4088.4 | 2947.2 |
| 52.5° | 3380.6 | 3384.3 | 3430.0 | 3432.4 | 3355.3 | 3332.5 | 3369.5 | 3860.3 | 4314.1 | 4409.1 | 3169.8 |
| 55° | 3391.7 | 3405.9 | 3542.8 | 3641.4 | 3766.0 | 3582.9 | 3549.6 | 4062.5 | 4530.5 | 4722.9 | 3401.0 |
| 57.5° | 3155.6 | 3178.4 | 3410.8 | 3623.6 | 3970.1 | 4012.6 | 3857.8 | 4324.0 | 4746.9 | 5031.8 | 3668.6 |
| 60° | 2651.2 | 2698.7 | 3014.4 | 3339.9 | 3878.2 | 4321.5 | 4488.6 | 4679.1 | 5031.2 | 5347.5 | 3993.5 |
| 62.5° | 1693.1 | 1711.6 | 2154.3 | 2699.3 | 3464.5 | 4291.3 | 5175.4 | 5304.9 | 5464.0 | 5758.7 | 4494.1 |
| 65° | 847.8 | 907.0 | 1166.5 | 1611.1 | 2498.3 | 3781.4 | 5522.6 | 6451.1 | 6256.3 | 6462.8 | 5305.5 |
| 67.5° | 575.3 | 594.4 | 725.7 | 968.0 | 1465.0 | 2679.0 | 5307.4 | 7416.7 | 7359.3 | 7393.2 | 6170.6 |
| 70° | 424.2 | 436.5 | 540.1 | 685.6 | 886.0 | 1521.1 | 4225.3 | 7343.9 | 7735.4 | 7723.1 | 6079.9 |
| 72.5° | 309.5 | 315.7 | 394.0 | 523.5 | 656.6 | 786.7 | 2580.3 | 5932.6 | 6752.6 | 7108.4 | 5317.3 |
| 75° | 225.0 | 232.4 | 273.8 | 391.5 | 510.5 | 490.8 | 1273.8 | 4285.1 | 5149.6 | 5833.9 | 4332.0 |
| 77.5° | 167.7 | 177.0 | 196.1 | 245.4 | 357.6 | 351.4 | 550.6 | 2782.6 | 3330.7 | 3810.4 | 2631.5 |
| 80° | 120.8 | 122.7 | 133.8 | 157.2 | 226.9 | 205.9 | 262.0 | 1450.8 | 1663.5 | 1822.6 | 1031.5 |
| 82.5° | 73.4 | 75.2 | 89.4 | 96.8 | 140.6 | 129.5 | 136.3 | 469.8 | 673.3 | 714.6 | 385.4 |
| 85° | 21.6 | 22.8 | 40.7 | 44.4 | 58.6 | 55.5 | 54.9 | 191.1 | 228.1 | 291.6 | 151.7 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 3.7 | 6.8 | 33.9 | 51.2 | 70.9 | 37.0 |
| 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° | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 | 995.1 |
| 2.5° | 1005.6 | 991.4 | 984.0 | 971.1 | 961.8 | 952.6 | 943.3 | 934.7 | 931.0 | 925.5 | 926.7 |
| 5° | 1023.5 | 1001.3 | 979.1 | 953.8 | 932.2 | 914.4 | 898.3 | 884.2 | 878.0 | 872.4 | 874.9 |
| 7.5° | 1050.6 | 1017.3 | 974.8 | 928.5 | 894.6 | 870.0 | 853.3 | 843.5 | 840.4 | 836.1 | 836.1 |
| 10° | 1085.2 | 1035.2 | 960.6 | 894.6 | 853.9 | 834.2 | 826.8 | 826.2 | 829.3 | 829.9 | 828.7 |
| 12.5° | 1123.4 | 1052.5 | 939.6 | 854.6 | 820.0 | 813.9 | 819.4 | 829.9 | 840.4 | 845.9 | 844.7 |
| 15° | 1162.8 | 1063.6 | 903.9 | 816.3 | 795.4 | 803.4 | 821.3 | 842.2 | 862.6 | 873.1 | 872.4 |
| 17.5° | 1199.8 | 1066.0 | 857.6 | 779.3 | 773.8 | 794.1 | 825.0 | 857.6 | 885.4 | 900.2 | 900.8 |
| 20° | 1241.1 | 1061.7 | 810.2 | 746.0 | 752.2 | 785.5 | 826.2 | 865.7 | 898.3 | 913.1 | 916.8 |
| 22.5° | 1278.8 | 1046.9 | 763.9 | 714.6 | 733.7 | 775.0 | 816.3 | 853.3 | 882.3 | 896.5 | 901.4 |
| 25° | 1312.7 | 1018.6 | 713.4 | 688.1 | 719.5 | 760.2 | 791.7 | 817.6 | 837.9 | 846.5 | 853.3 |
| 27.5° | 1331.2 | 976.0 | 675.1 | 667.1 | 706.0 | 739.3 | 756.5 | 764.5 | 771.3 | 768.9 | 773.8 |
| 30° | 1334.9 | 923.0 | 641.8 | 650.5 | 685.6 | 710.3 | 714.0 | 706.0 | 694.3 | 675.1 | 679.5 |
| 32.5° | 1331.2 | 862.0 | 614.1 | 632.6 | 662.8 | 677.6 | 672.7 | 651.7 | 623.3 | 593.8 | 595.6 |
| 35° | 1332.4 | 800.3 | 591.3 | 612.9 | 636.3 | 644.3 | 632.0 | 603.0 | 572.8 | 545.7 | 544.4 |
| 37.5° | 1346.0 | 748.5 | 572.2 | 593.8 | 610.4 | 611.6 | 598.1 | 567.9 | 552.4 | 532.1 | 529.6 |
| 40° | 1383.6 | 710.3 | 554.9 | 574.6 | 585.1 | 584.5 | 569.1 | 547.5 | 558.0 | 551.2 | 549.4 |
| 42.5° | 1445.2 | 686.9 | 540.7 | 554.3 | 561.7 | 562.9 | 550.6 | 537.0 | 559.8 | 551.2 | 548.1 |
| 45° | 1544.5 | 685.6 | 530.9 | 533.9 | 545.7 | 554.3 | 545.7 | 530.2 | 538.9 | 497.0 | 488.9 |
| 47.5° | 1662.3 | 706.6 | 523.5 | 516.1 | 536.4 | 551.8 | 538.3 | 513.6 | 495.7 | 457.5 | 451.9 |
| 50° | 1804.1 | 749.1 | 516.7 | 497.0 | 522.8 | 542.6 | 529.0 | 495.1 | 468.0 | 447.6 | 444.5 |
| 52.5° | 1972.4 | 805.2 | 508.0 | 475.4 | 502.5 | 537.6 | 529.0 | 493.3 | 457.5 | 439.0 | 435.9 |
| 55° | 2148.7 | 870.0 | 498.2 | 449.5 | 479.7 | 538.9 | 533.3 | 480.3 | 449.5 | 439.6 | 437.1 |
| 57.5° | 2367.6 | 947.7 | 480.3 | 419.3 | 459.3 | 527.8 | 516.1 | 472.9 | 443.9 | 435.9 | 433.4 |
| 60° | 2651.8 | 1063.0 | 446.4 | 388.4 | 435.9 | 508.0 | 500.7 | 460.6 | 429.1 | 422.3 | 420.5 |
| 62.5° | 3101.9 | 1258.4 | 405.1 | 358.8 | 408.2 | 466.7 | 477.8 | 437.1 | 410.6 | 410.0 | 409.4 |
| 65° | 3835.7 | 1493.3 | 356.4 | 332.3 | 379.2 | 432.8 | 447.6 | 413.1 | 391.5 | 398.3 | 397.7 |
| 67.5° | 4349.9 | 1513.7 | 316.3 | 304.6 | 345.3 | 395.8 | 417.4 | 388.4 | 365.0 | 378.0 | 377.3 |
| 70° | 3984.2 | 1180.7 | 281.8 | 275.6 | 308.9 | 355.8 | 384.7 | 357.6 | 334.2 | 346.5 | 344.0 |
| 72.5° | 3360.3 | 905.1 | 249.1 | 245.4 | 271.9 | 313.8 | 342.8 | 326.8 | 302.1 | 302.1 | 296.6 |
| 75° | 2700.6 | 746.7 | 214.6 | 212.7 | 230.6 | 271.3 | 304.0 | 276.8 | 254.0 | 252.8 | 249.1 |
| 77.5° | 1548.8 | 489.6 | 180.0 | 178.8 | 184.4 | 226.9 | 236.1 | 230.6 | 213.3 | 205.3 | 202.8 |
| 80° | 617.2 | 254.6 | 141.8 | 133.8 | 139.3 | 166.5 | 186.2 | 177.0 | 162.2 | 152.3 | 146.7 |
| 82.5° | 239.2 | 127.6 | 99.9 | 87.6 | 95.6 | 120.2 | 135.0 | 131.9 | 122.1 | 99.9 | 93.7 |
| 85° | 97.4 | 62.3 | 59.8 | 50.6 | 55.5 | 64.7 | 77.7 | 67.2 | 55.5 | 39.5 | 37.6 |
| 87.5° | 25.9 | 22.8 | 22.2 | 13.6 | 10.5 | 3.1 | 0.6 | 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)