

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: P634588

Luminaire Tested: GWS-SA3C-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9043.2 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 93
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

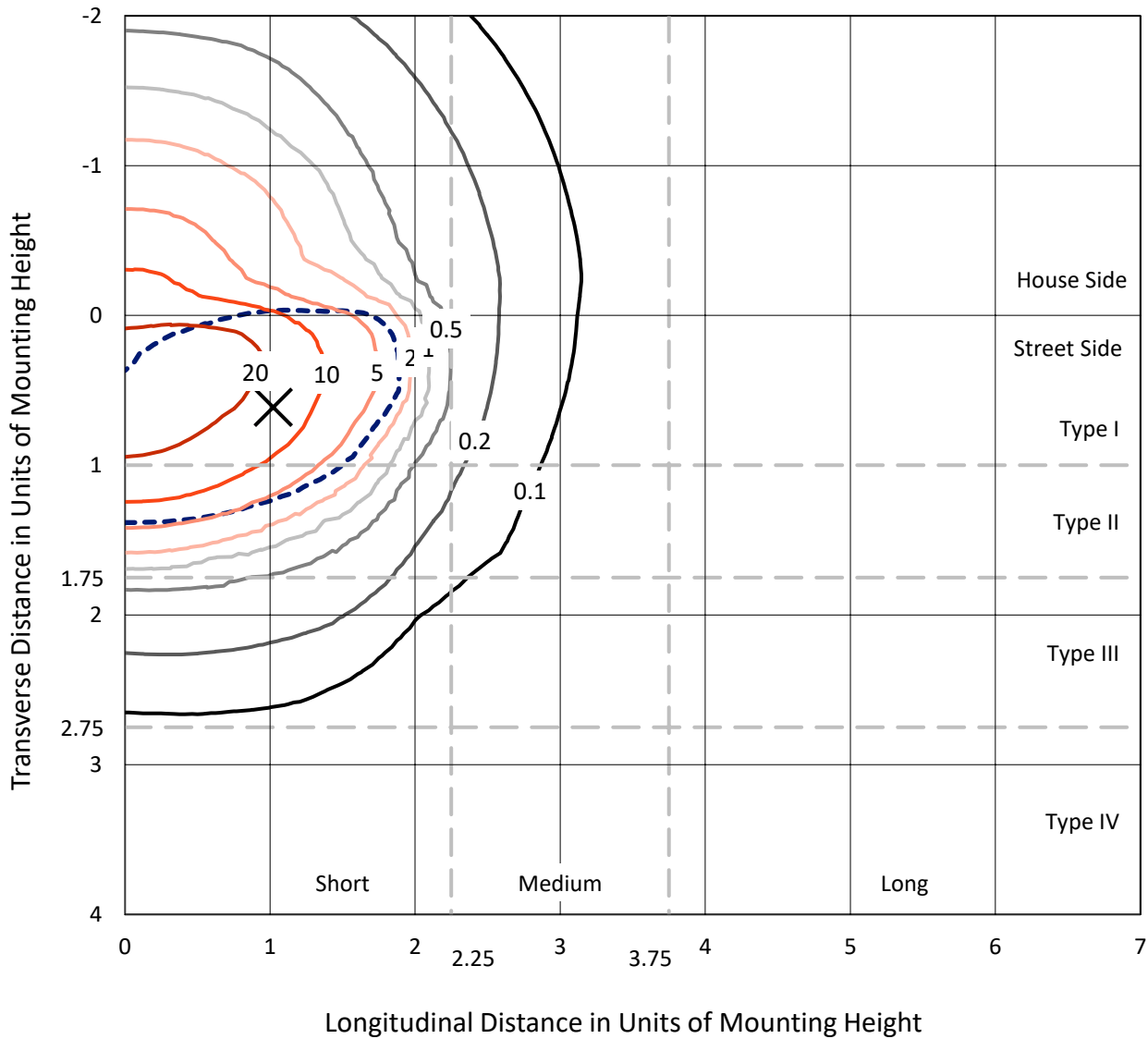


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Iso-Footcandle Lines of Horizontal Illumination

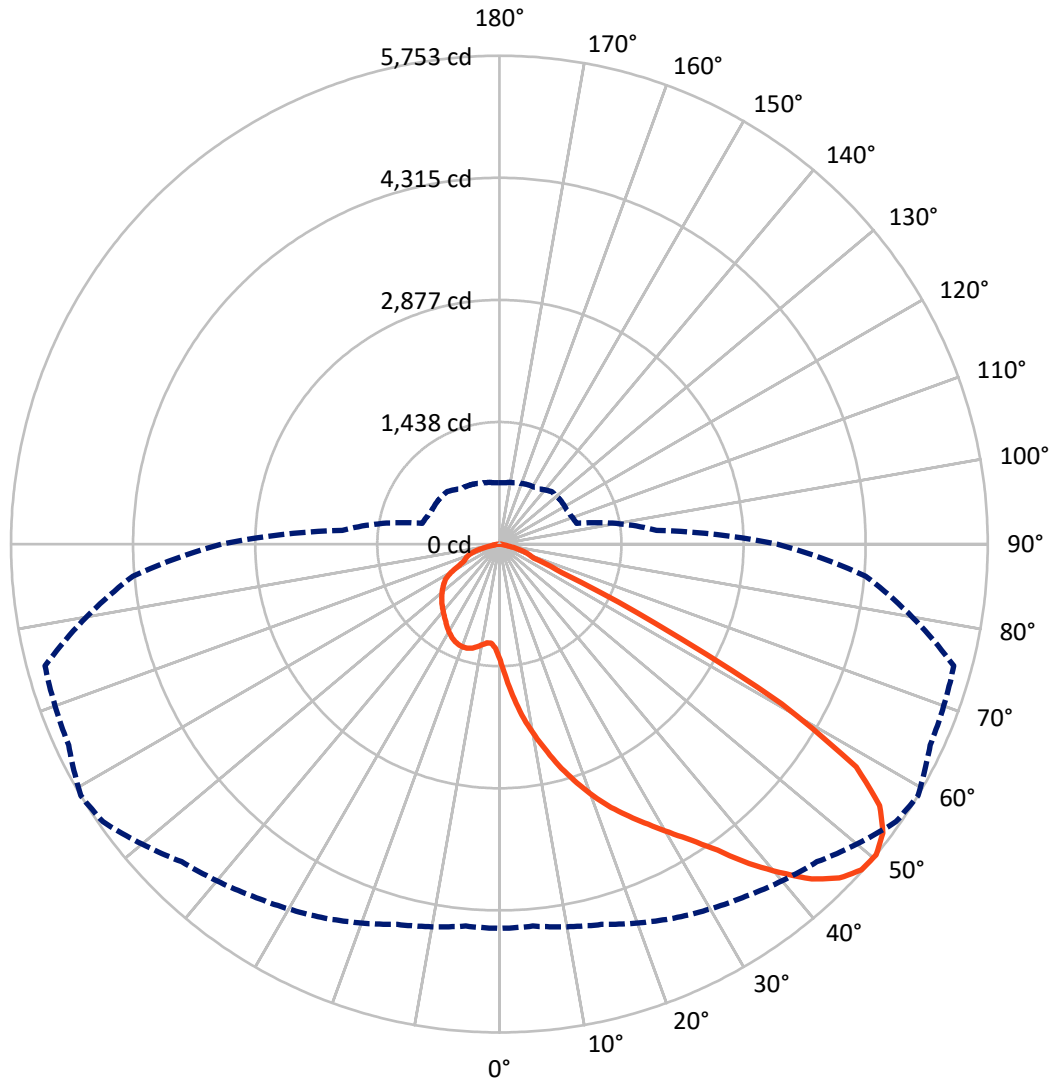
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2080.1 | 0.0 | 2080.1 |
| | % Fixture | 23.0 | 0.0 | 23.0 |
| Street Side | Lumens | 6963.1 | 0.0 | 6963.1 |
| | % Fixture | 77.0 | 0.0 | 77.0 |
| Total | Lumens | 9043.2 | 0.0 | 9043.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.7 | 1.7 |
| 10°-20° | 558.0 | 6.2 |
| 20°-30° | 1056.6 | 11.7 |
| 30°-40° | 1752.1 | 19.4 |
| 40°-50° | 2393.5 | 26.5 |
| 50°-60° | 2172.7 | 24.0 |
| 60°-70° | 723.5 | 8.0 |
| 70°-80° | 211.0 | 2.3 |
| 80°-90° | 22.2 | 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° | 9043.2 | 100.0 |
| 0°-180° | 9043.2 | 100.0 |

Coefficient of Utilization



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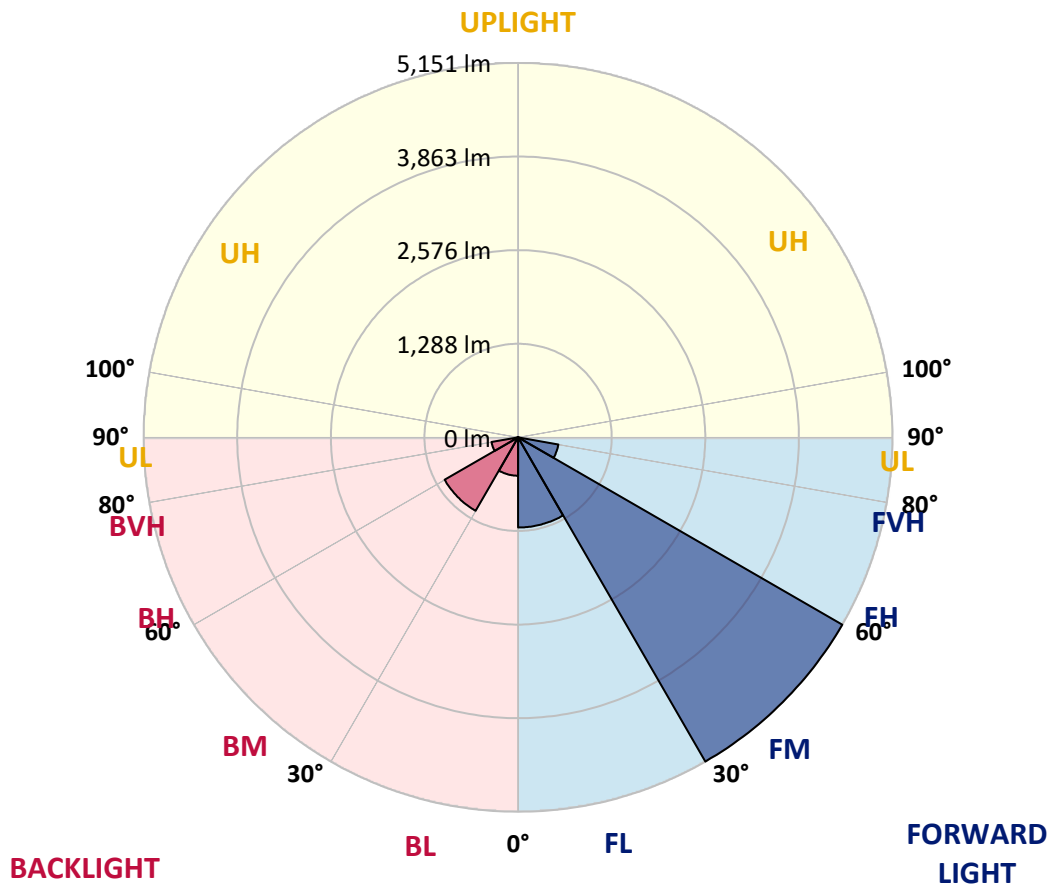
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1240.0 | 13.7 | | | |
| FM (30°-60°) | 5151.1 | 57.0 | | | |
| FH (60°-80°) | 563.3 | 6.2 | | | G0/660 |
| FVH (80°-90°) | 8.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 528.2 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1167.1 | 12.9 | B2/2500 | | |
| BH (60°-80°) | 371.3 | 4.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 13.5 | 0.1 | | | 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 II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 |
| 2.5° | 1775.2 | 1788.5 | 1767.9 | 1769.4 | 1717.8 | 1694.2 | 1627.9 | 1588.9 | 1563.1 | 1490.9 | 1425.4 |
| 5° | 2133.2 | 2117.8 | 2101.6 | 2092.0 | 2047.1 | 1983.7 | 1901.2 | 1835.7 | 1775.2 | 1633.8 | 1497.5 |
| 7.5° | 2352.8 | 2344.7 | 2333.6 | 2327.7 | 2283.5 | 2217.2 | 2134.7 | 2078.7 | 1991.1 | 1799.6 | 1585.2 |
| 10° | 2539.1 | 2529.5 | 2522.9 | 2527.3 | 2491.2 | 2448.5 | 2358.6 | 2294.6 | 2195.9 | 1974.9 | 1691.3 |
| 12.5° | 2683.5 | 2688.7 | 2690.9 | 2714.4 | 2699.0 | 2673.2 | 2580.4 | 2512.6 | 2402.8 | 2159.8 | 1815.8 |
| 15° | 2797.7 | 2796.2 | 2822.0 | 2866.9 | 2892.0 | 2875.8 | 2801.4 | 2744.6 | 2610.6 | 2341.7 | 1949.8 |
| 17.5° | 2824.2 | 2825.7 | 2866.2 | 2945.0 | 3026.8 | 3066.5 | 3024.6 | 2956.8 | 2824.2 | 2521.4 | 2089.0 |
| 20° | 2845.6 | 2848.5 | 2890.5 | 2980.4 | 3099.7 | 3210.9 | 3217.5 | 3168.9 | 3054.8 | 2715.9 | 2230.5 |
| 22.5° | 2980.4 | 2987.0 | 2998.0 | 3054.8 | 3162.3 | 3303.0 | 3380.3 | 3370.0 | 3274.3 | 2920.0 | 2383.0 |
| 25° | 3334.7 | 3314.8 | 3261.0 | 3244.8 | 3286.1 | 3400.2 | 3532.1 | 3552.0 | 3504.8 | 3144.6 | 2547.2 |
| 27.5° | 3772.2 | 3750.9 | 3671.3 | 3587.3 | 3498.2 | 3538.0 | 3678.7 | 3738.3 | 3739.1 | 3392.1 | 2712.2 |
| 30° | 4169.3 | 4152.3 | 4087.5 | 3967.4 | 3813.5 | 3756.0 | 3859.9 | 3940.2 | 3988.0 | 3677.9 | 2900.1 |
| 32.5° | 4508.8 | 4493.4 | 4405.7 | 4307.7 | 4157.5 | 4041.8 | 4079.4 | 4156.7 | 4268.7 | 4047.7 | 3133.6 |
| 35° | 4794.6 | 4779.2 | 4695.2 | 4596.5 | 4457.3 | 4388.0 | 4374.8 | 4427.8 | 4572.9 | 4433.7 | 3401.7 |
| 37.5° | 5026.7 | 5011.2 | 4923.6 | 4830.7 | 4724.7 | 4729.1 | 4749.0 | 4774.8 | 4858.0 | 4846.9 | 3688.2 |
| 40° | 5176.9 | 5160.7 | 5098.1 | 5031.8 | 4964.8 | 5017.8 | 5116.5 | 5085.6 | 5129.8 | 5180.6 | 3952.0 |
| 42.5° | 5244.0 | 5223.4 | 5187.3 | 5172.5 | 5151.9 | 5234.4 | 5424.5 | 5393.5 | 5340.5 | 5403.1 | 4147.9 |
| 45° | 5176.9 | 5159.3 | 5158.5 | 5203.5 | 5251.3 | 5357.4 | 5637.3 | 5612.3 | 5478.2 | 5510.6 | 4265.0 |
| 47.5° | 4971.4 | 4956.0 | 4998.0 | 5115.8 | 5233.7 | 5388.4 | 5732.4 | 5736.8 | 5576.2 | 5555.6 | 4340.9 |
| 50° | 4527.3 | 4516.9 | 4638.5 | 4861.7 | 5065.0 | 5291.9 | 5702.2 | 5753.0 | 5599.8 | 5541.6 | 4331.3 |
| 52.5° | 3624.2 | 3672.0 | 3936.5 | 4309.2 | 4704.0 | 5122.4 | 5590.2 | 5656.5 | 5486.3 | 5449.5 | 4279.7 |
| 55° | 2480.9 | 2503.0 | 2767.5 | 3311.8 | 3938.0 | 4755.6 | 5333.1 | 5435.5 | 5352.3 | 5434.0 | 4333.5 |
| 57.5° | 1284.7 | 1302.3 | 1510.8 | 1994.0 | 2671.0 | 3758.2 | 4619.3 | 4955.2 | 5081.9 | 5512.1 | 4500.7 |
| 60° | 527.4 | 542.2 | 628.3 | 861.8 | 1347.3 | 2188.5 | 3324.4 | 3822.3 | 4119.9 | 5034.0 | 3996.9 |
| 62.5° | 383.0 | 390.4 | 431.7 | 514.2 | 705.7 | 1072.5 | 1881.3 | 2064.7 | 2273.9 | 3154.9 | 2537.6 |
| 65° | 322.6 | 330.7 | 363.9 | 414.0 | 514.9 | 657.8 | 803.6 | 808.1 | 890.6 | 1285.4 | 940.7 |
| 67.5° | 270.3 | 277.7 | 307.2 | 349.9 | 416.2 | 467.0 | 431.7 | 432.4 | 430.9 | 466.3 | 450.8 |
| 70° | 210.7 | 216.6 | 246.0 | 291.7 | 326.3 | 299.8 | 337.4 | 373.5 | 358.0 | 372.0 | 393.4 |
| 72.5° | 154.0 | 160.6 | 186.4 | 221.0 | 212.1 | 213.6 | 273.3 | 310.1 | 301.3 | 316.7 | 336.6 |
| 75° | 111.2 | 115.6 | 128.9 | 110.5 | 116.4 | 140.7 | 192.3 | 212.1 | 221.0 | 234.2 | 251.9 |
| 77.5° | 36.1 | 36.1 | 40.5 | 50.8 | 63.3 | 78.1 | 98.0 | 106.1 | 119.3 | 134.1 | 146.6 |
| 80° | 18.4 | 19.2 | 22.8 | 28.0 | 35.4 | 44.9 | 57.5 | 61.1 | 67.8 | 75.9 | 81.0 |
| 82.5° | 8.8 | 9.6 | 11.0 | 14.0 | 18.4 | 23.6 | 31.7 | 35.4 | 39.8 | 44.9 | 48.6 |
| 85° | 2.2 | 2.2 | 2.9 | 4.4 | 5.9 | 8.8 | 11.8 | 14.0 | 17.7 | 21.4 | 23.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 2.2 | 2.9 | 3.7 | 4.4 | 5.9 |
| 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° | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 | 1370.1 |
| 2.5° | 1395.9 | 1354.6 | 1301.6 | 1256.7 | 1215.4 | 1183.7 | 1156.5 | 1143.2 | 1130.7 | 1121.9 | 1124.8 |
| 5° | 1434.2 | 1363.5 | 1264.8 | 1196.3 | 1154.3 | 1132.9 | 1118.2 | 1110.8 | 1109.3 | 1103.5 | 1101.2 |
| 7.5° | 1490.2 | 1389.3 | 1257.4 | 1188.2 | 1160.2 | 1149.1 | 1141.0 | 1136.6 | 1138.8 | 1132.9 | 1130.7 |
| 10° | 1559.4 | 1432.0 | 1275.8 | 1214.7 | 1190.4 | 1182.3 | 1173.4 | 1167.5 | 1164.6 | 1155.8 | 1154.3 |
| 12.5° | 1645.6 | 1485.0 | 1309.0 | 1248.6 | 1224.3 | 1210.3 | 1198.5 | 1188.2 | 1181.5 | 1170.5 | 1167.5 |
| 15° | 1738.4 | 1544.0 | 1348.0 | 1281.7 | 1253.0 | 1232.4 | 1213.2 | 1197.7 | 1186.0 | 1171.2 | 1169.0 |
| 17.5° | 1839.3 | 1605.8 | 1380.4 | 1304.5 | 1267.7 | 1240.5 | 1212.5 | 1189.6 | 1173.4 | 1154.3 | 1152.1 |
| 20° | 1944.7 | 1668.4 | 1404.7 | 1315.6 | 1268.5 | 1231.6 | 1194.1 | 1163.9 | 1143.2 | 1124.1 | 1122.6 |
| 22.5° | 2053.7 | 1725.9 | 1419.5 | 1312.7 | 1256.7 | 1211.0 | 1166.1 | 1132.2 | 1107.9 | 1085.0 | 1083.6 |
| 25° | 2163.4 | 1781.1 | 1423.1 | 1300.9 | 1233.1 | 1180.1 | 1135.1 | 1095.4 | 1068.1 | 1042.3 | 1039.4 |
| 27.5° | 2274.7 | 1827.5 | 1414.3 | 1277.3 | 1201.4 | 1144.0 | 1099.0 | 1060.0 | 1032.0 | 1006.2 | 1001.8 |
| 30° | 2393.3 | 1867.3 | 1395.2 | 1246.4 | 1164.6 | 1105.7 | 1061.5 | 1032.0 | 1005.5 | 979.7 | 975.3 |
| 32.5° | 2520.0 | 1901.9 | 1367.9 | 1208.8 | 1121.9 | 1067.4 | 1034.9 | 1008.4 | 981.9 | 959.1 | 954.7 |
| 35° | 2671.0 | 1924.8 | 1327.4 | 1160.2 | 1082.1 | 1039.4 | 1017.3 | 986.3 | 953.9 | 928.9 | 926.7 |
| 37.5° | 2827.1 | 1942.5 | 1278.8 | 1113.8 | 1047.5 | 1023.2 | 1004.7 | 962.8 | 922.2 | 892.0 | 888.4 |
| 40° | 2978.1 | 1957.2 | 1218.4 | 1070.3 | 1015.8 | 1011.4 | 986.3 | 934.0 | 864.1 | 830.2 | 827.2 |
| 42.5° | 3118.8 | 1961.6 | 1155.0 | 1023.9 | 987.1 | 984.9 | 956.9 | 875.8 | 822.1 | 800.7 | 797.8 |
| 45° | 3215.3 | 1957.9 | 1089.5 | 980.4 | 958.3 | 946.6 | 917.1 | 833.9 | 800.7 | 781.6 | 777.9 |
| 47.5° | 3286.8 | 1938.8 | 1015.8 | 934.8 | 925.9 | 909.7 | 846.4 | 807.3 | 776.4 | 757.2 | 753.6 |
| 50° | 3274.3 | 1859.2 | 941.4 | 890.6 | 886.9 | 872.9 | 794.8 | 774.2 | 746.9 | 726.3 | 723.4 |
| 52.5° | 3209.4 | 1708.2 | 865.5 | 842.0 | 849.3 | 822.1 | 758.0 | 734.4 | 710.8 | 687.3 | 682.1 |
| 55° | 3225.6 | 1599.2 | 808.1 | 794.8 | 808.1 | 746.2 | 716.7 | 691.7 | 669.6 | 646.8 | 642.3 |
| 57.5° | 3296.4 | 1491.7 | 746.9 | 744.0 | 758.0 | 688.0 | 663.7 | 632.0 | 600.3 | 581.9 | 581.9 |
| 60° | 2768.2 | 1087.2 | 639.4 | 646.8 | 678.4 | 640.9 | 619.5 | 587.1 | 552.5 | 536.3 | 536.3 |
| 62.5° | 1636.8 | 682.1 | 530.4 | 522.3 | 542.2 | 565.7 | 577.5 | 551.0 | 509.7 | 488.4 | 489.1 |
| 65° | 721.1 | 496.5 | 467.8 | 461.1 | 455.2 | 471.4 | 503.8 | 506.1 | 462.6 | 437.6 | 438.3 |
| 67.5° | 444.2 | 449.3 | 437.6 | 432.4 | 427.2 | 424.3 | 421.3 | 422.8 | 411.0 | 388.2 | 387.5 |
| 70° | 400.7 | 414.7 | 406.6 | 402.2 | 395.6 | 390.4 | 372.7 | 344.0 | 324.1 | 318.2 | 324.8 |
| 72.5° | 344.7 | 363.9 | 359.5 | 357.3 | 349.2 | 336.6 | 313.1 | 285.1 | 261.5 | 246.8 | 249.7 |
| 75° | 260.0 | 275.5 | 277.7 | 278.4 | 269.6 | 257.8 | 233.5 | 209.9 | 189.3 | 173.8 | 177.5 |
| 77.5° | 149.5 | 158.4 | 160.6 | 162.8 | 156.2 | 151.7 | 135.5 | 118.6 | 107.5 | 91.3 | 95.8 |
| 80° | 83.2 | 86.9 | 86.9 | 87.7 | 84.0 | 78.8 | 67.8 | 58.2 | 53.0 | 45.7 | 46.4 |
| 82.5° | 50.1 | 51.6 | 52.3 | 53.0 | 50.8 | 45.7 | 37.6 | 30.9 | 28.0 | 24.3 | 23.6 |
| 85° | 24.3 | 25.8 | 25.8 | 26.5 | 22.8 | 19.9 | 15.5 | 11.8 | 10.3 | 7.4 | 8.1 |
| 87.5° | 5.9 | 6.6 | 6.6 | 5.9 | 5.2 | 3.7 | 2.2 | 0.7 | 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)