

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: P632826

Luminaire Tested: GWS-SA2D-740-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632826
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-740-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11584.4 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

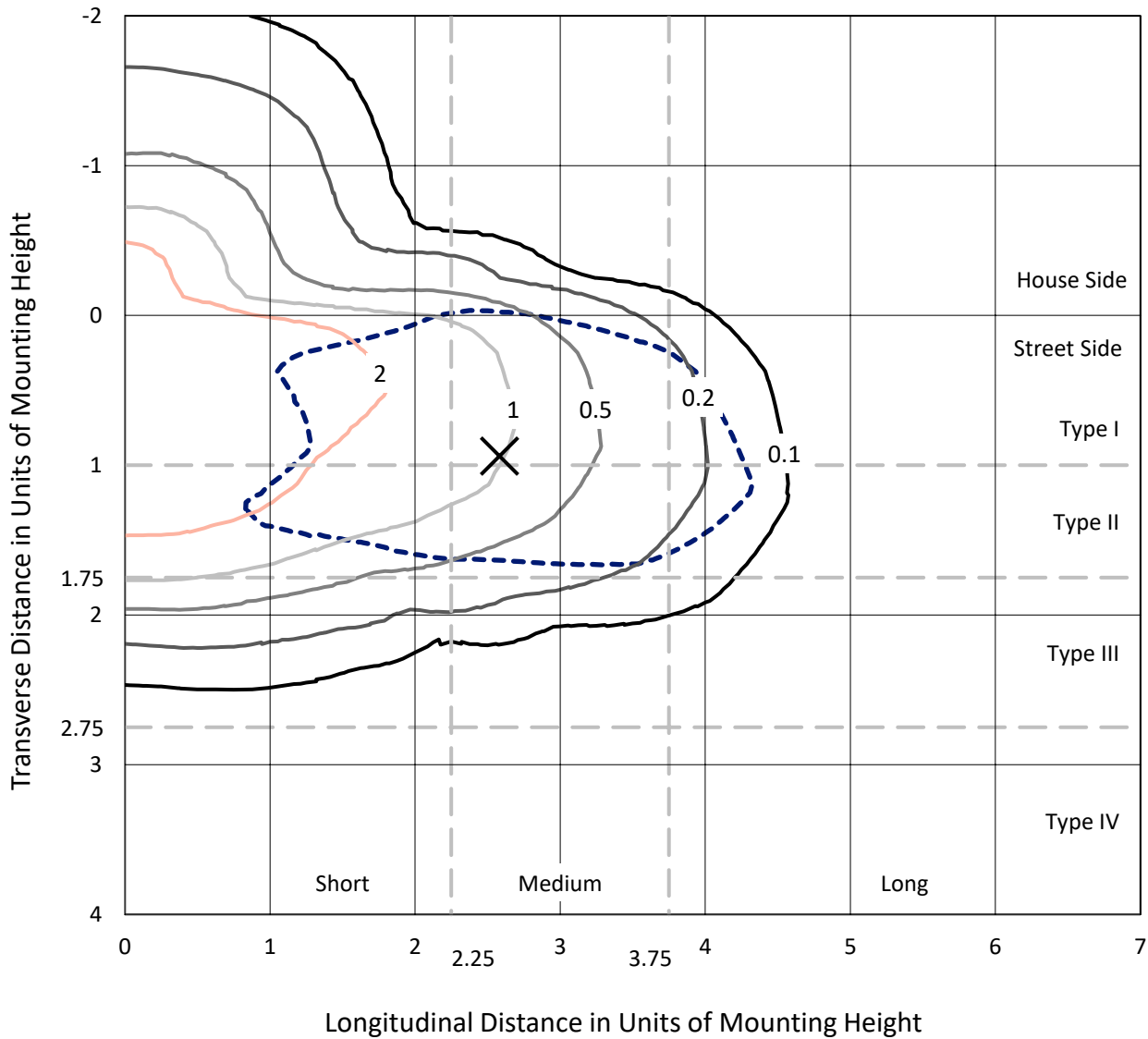
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

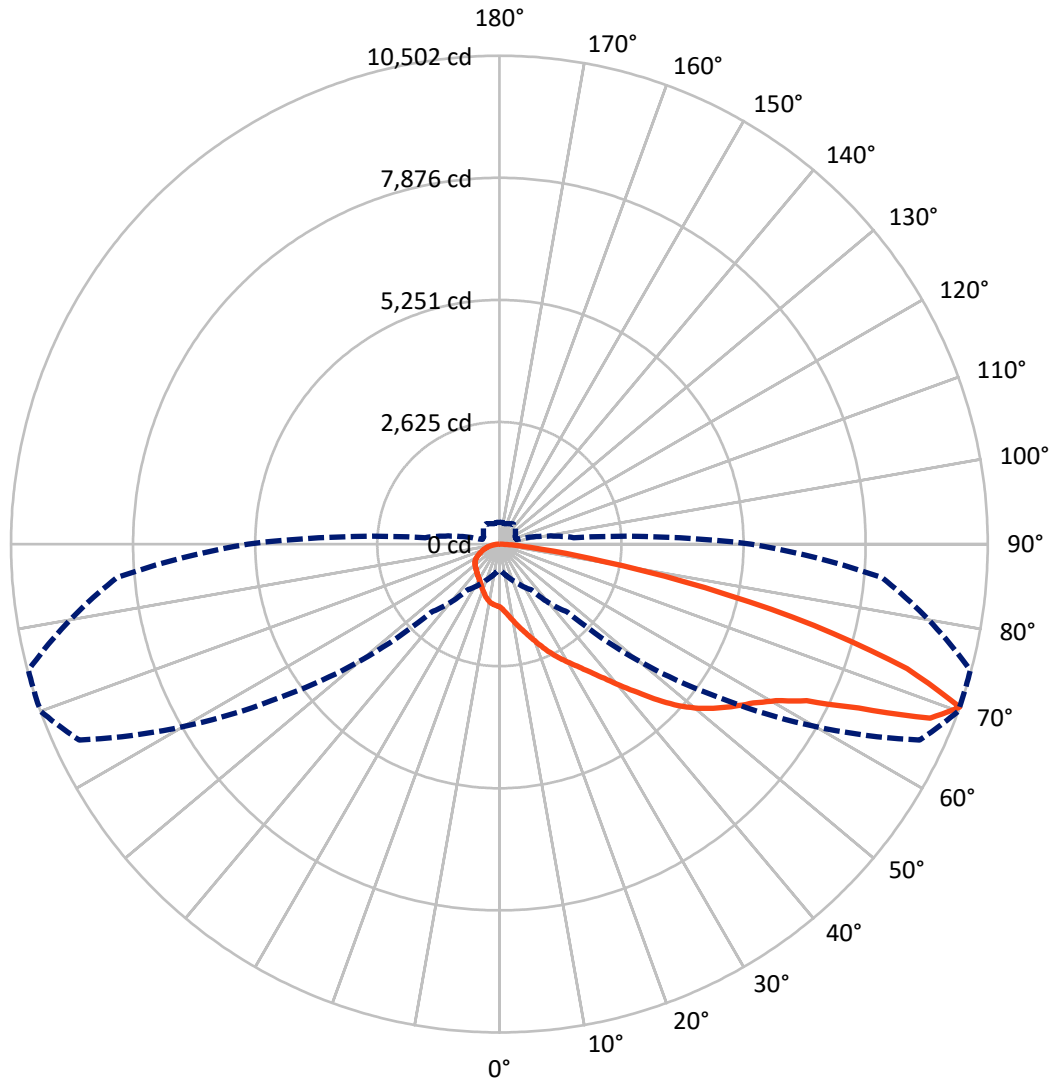
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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 | 2076.0 | 0.0 | 2076.0 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 9508.4 | 0.0 | 9508.4 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 11584.4 | 0.0 | 11584.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 137.3 | 1.2 |
| 10°-20° | 446.7 | 3.9 |
| 20°-30° | 791.3 | 6.8 |
| 30°-40° | 1190.9 | 10.3 |
| 40°-50° | 1801.7 | 15.6 |
| 50°-60° | 2581.1 | 22.3 |
| 60°-70° | 2853.1 | 24.6 |
| 70°-80° | 1610.1 | 13.9 |
| 80°-90° | 172.2 | 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° | 11584.4 | 100.0 |
| 0°-180° | 11584.4 | 100.0 |

Coefficient of Utilization



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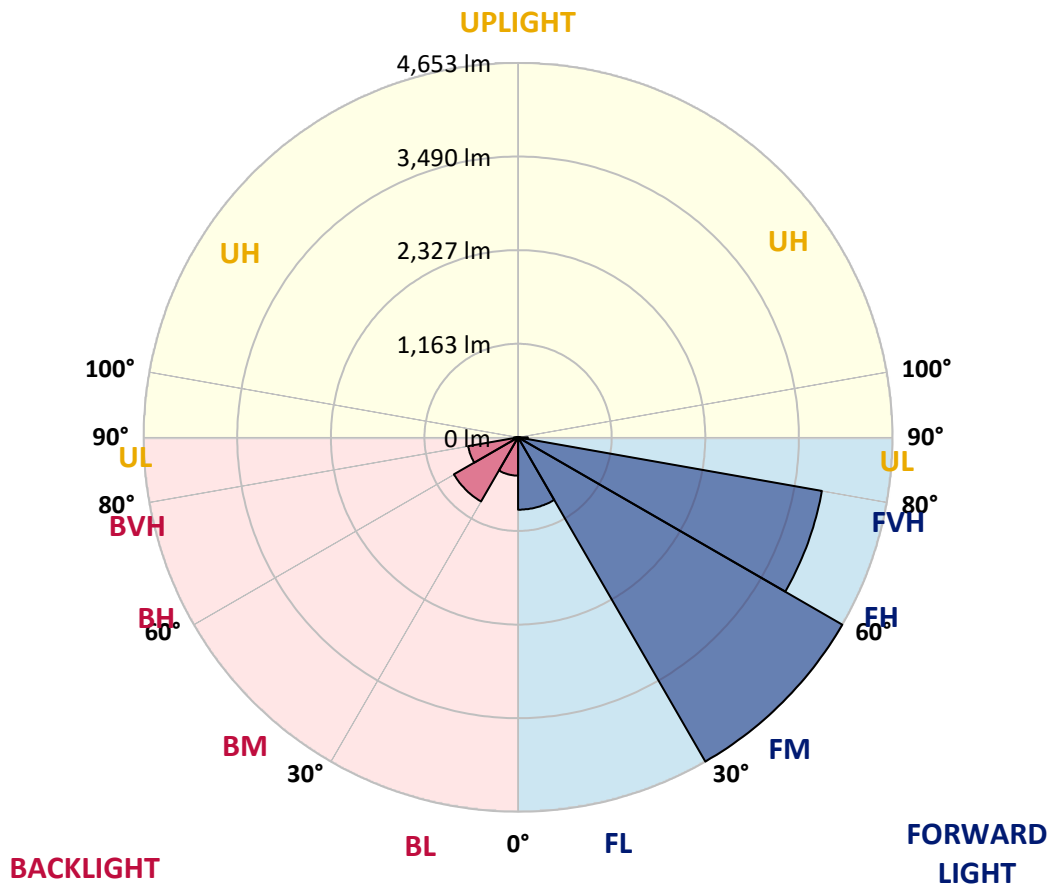
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 899.3 | 7.8 | | | |
| FM (30°-60°) | 4653.4 | 40.2 | | | |
| FH (60°-80°) | 3834.0 | 33.1 | | | G2/5000 |
| FVH (80°-90°) | 121.7 | 1.1 | | | G2/225 |
| BL (0°-30°) | 476.0 | 4.1 | B1/500 | | |
| BM (30°-60°) | 920.3 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 629.2 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 50.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 |
| 2.5° | 1496.6 | 1494.1 | 1495.8 | 1494.1 | 1484.9 | 1462.3 | 1443.9 | 1420.5 | 1404.6 | 1395.3 | 1373.6 |
| 5° | 1672.4 | 1669.9 | 1664.0 | 1655.7 | 1638.9 | 1608.0 | 1561.9 | 1510.9 | 1479.9 | 1456.4 | 1410.4 |
| 7.5° | 1798.8 | 1798.8 | 1798.0 | 1787.9 | 1776.2 | 1743.6 | 1689.1 | 1622.2 | 1577.0 | 1536.8 | 1461.5 |
| 10° | 1863.2 | 1867.4 | 1873.3 | 1887.5 | 1885.0 | 1867.4 | 1816.4 | 1744.4 | 1687.5 | 1640.6 | 1528.4 |
| 12.5° | 1898.4 | 1900.9 | 1911.0 | 1940.3 | 1970.4 | 1974.6 | 1944.4 | 1869.1 | 1807.2 | 1744.4 | 1602.9 |
| 15° | 1943.6 | 1944.4 | 1957.8 | 1993.0 | 2037.4 | 2081.7 | 2074.2 | 1998.8 | 1935.2 | 1865.8 | 1685.8 |
| 17.5° | 1978.8 | 1984.6 | 2008.9 | 2049.9 | 2105.2 | 2166.3 | 2203.1 | 2156.2 | 2077.5 | 1998.0 | 1776.2 |
| 20° | 1991.3 | 1995.5 | 2027.3 | 2090.1 | 2165.4 | 2251.6 | 2333.7 | 2321.1 | 2241.6 | 2147.8 | 1878.3 |
| 22.5° | 2036.5 | 2036.5 | 2060.0 | 2112.7 | 2201.4 | 2327.0 | 2460.1 | 2492.7 | 2422.4 | 2312.7 | 1988.0 |
| 25° | 2136.1 | 2132.8 | 2143.7 | 2165.4 | 2232.4 | 2387.2 | 2584.8 | 2682.7 | 2604.0 | 2481.0 | 2097.6 |
| 27.5° | 2272.6 | 2270.9 | 2270.0 | 2273.4 | 2296.0 | 2440.0 | 2690.2 | 2860.2 | 2781.5 | 2642.5 | 2195.6 |
| 30° | 2420.7 | 2415.7 | 2426.6 | 2416.5 | 2411.5 | 2502.7 | 2779.8 | 3019.2 | 2958.1 | 2802.4 | 2276.7 |
| 32.5° | 2622.4 | 2613.2 | 2610.7 | 2578.1 | 2558.0 | 2600.7 | 2851.8 | 3200.0 | 3151.5 | 2974.8 | 2368.0 |
| 35° | 2888.6 | 2880.3 | 2837.6 | 2785.7 | 2726.2 | 2746.3 | 2941.4 | 3376.6 | 3380.0 | 3190.8 | 2487.7 |
| 37.5° | 3157.3 | 3159.0 | 3125.5 | 3003.3 | 2942.2 | 2930.5 | 3077.8 | 3591.7 | 3663.7 | 3448.6 | 2642.5 |
| 40° | 3380.8 | 3390.8 | 3390.8 | 3261.9 | 3170.7 | 3159.8 | 3269.5 | 3847.0 | 3990.2 | 3765.0 | 2838.4 |
| 42.5° | 3550.7 | 3559.9 | 3589.2 | 3496.3 | 3400.1 | 3437.7 | 3502.2 | 4103.2 | 4360.1 | 4155.9 | 3086.2 |
| 45° | 3737.4 | 3744.9 | 3760.8 | 3707.2 | 3651.2 | 3751.6 | 3765.8 | 4409.5 | 4783.7 | 4594.5 | 3374.1 |
| 47.5° | 3985.1 | 3978.4 | 3980.1 | 3940.8 | 3897.3 | 4059.6 | 4056.3 | 4667.3 | 5193.0 | 5075.0 | 3686.3 |
| 50° | 4293.2 | 4305.7 | 4294.0 | 4216.2 | 4165.1 | 4313.3 | 4332.5 | 4952.8 | 5552.9 | 5550.4 | 4001.0 |
| 52.5° | 4589.5 | 4594.5 | 4656.4 | 4659.8 | 4555.2 | 4524.2 | 4574.4 | 5240.7 | 5856.8 | 5985.7 | 4303.2 |
| 55° | 4604.6 | 4623.8 | 4809.6 | 4943.6 | 5112.6 | 4864.0 | 4818.8 | 5515.2 | 6150.6 | 6411.7 | 4617.1 |
| 57.5° | 4284.0 | 4314.9 | 4630.5 | 4919.3 | 5389.7 | 5447.4 | 5237.4 | 5870.2 | 6444.4 | 6831.1 | 4980.4 |
| 60° | 3599.3 | 3663.7 | 4092.3 | 4534.2 | 5265.0 | 5866.8 | 6093.6 | 6352.3 | 6830.2 | 7259.6 | 5421.5 |
| 62.5° | 2298.5 | 2323.6 | 2924.6 | 3664.6 | 4703.3 | 5825.8 | 7026.1 | 7201.9 | 7417.8 | 7817.9 | 6101.2 |
| 65° | 1150.9 | 1231.3 | 1583.7 | 2187.2 | 3391.7 | 5133.6 | 7497.4 | 8757.9 | 8493.4 | 8773.8 | 7202.7 |
| 67.5° | 781.0 | 806.9 | 985.2 | 1314.2 | 1988.8 | 3636.9 | 7205.2 | 10068.7 | 9990.9 | 10036.9 | 8377.1 |
| 70° | 575.9 | 592.6 | 733.2 | 930.8 | 1202.8 | 2065.0 | 5736.2 | 9970.0 | 10501.5 | 10484.8 | 8254.0 |
| 72.5° | 420.2 | 428.6 | 534.9 | 710.6 | 891.4 | 1068.1 | 3503.0 | 8054.0 | 9167.3 | 9650.2 | 7218.6 |
| 75° | 305.5 | 315.6 | 371.6 | 531.5 | 693.1 | 666.3 | 1729.3 | 5817.4 | 6990.9 | 7920.1 | 5881.0 |
| 77.5° | 227.7 | 240.2 | 266.2 | 333.1 | 485.5 | 477.1 | 747.5 | 3777.6 | 4521.7 | 5172.9 | 3572.5 |
| 80° | 164.1 | 166.6 | 181.6 | 213.4 | 308.0 | 279.6 | 355.7 | 1969.6 | 2258.3 | 2474.3 | 1400.4 |
| 82.5° | 99.6 | 102.1 | 121.4 | 131.4 | 190.8 | 175.8 | 185.0 | 637.8 | 914.0 | 970.1 | 523.1 |
| 85° | 29.3 | 31.0 | 55.2 | 60.3 | 79.5 | 75.3 | 74.5 | 259.5 | 309.7 | 395.9 | 205.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 5.0 | 9.2 | 46.0 | 69.5 | 96.3 | 50.2 |
| 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° | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 | 1351.0 |
| 2.5° | 1365.2 | 1346.0 | 1335.9 | 1318.3 | 1305.8 | 1293.2 | 1280.7 | 1269.0 | 1263.9 | 1256.4 | 1258.1 |
| 5° | 1389.5 | 1359.4 | 1329.2 | 1294.9 | 1265.6 | 1241.3 | 1219.6 | 1200.3 | 1191.9 | 1184.4 | 1187.8 |
| 7.5° | 1426.3 | 1381.1 | 1323.4 | 1260.6 | 1214.5 | 1181.1 | 1158.5 | 1145.1 | 1140.9 | 1135.0 | 1135.0 |
| 10° | 1473.2 | 1405.4 | 1304.1 | 1214.5 | 1159.3 | 1132.5 | 1122.5 | 1121.6 | 1125.8 | 1126.7 | 1125.0 |
| 12.5° | 1525.1 | 1428.8 | 1275.6 | 1160.1 | 1113.3 | 1104.9 | 1112.4 | 1126.7 | 1140.9 | 1148.4 | 1146.7 |
| 15° | 1578.7 | 1443.9 | 1227.1 | 1108.2 | 1079.8 | 1090.7 | 1114.9 | 1143.4 | 1171.0 | 1185.2 | 1184.4 |
| 17.5° | 1628.9 | 1447.2 | 1164.3 | 1058.0 | 1050.5 | 1078.1 | 1120.0 | 1164.3 | 1202.0 | 1222.1 | 1222.9 |
| 20° | 1685.0 | 1441.4 | 1099.9 | 1012.8 | 1021.2 | 1066.4 | 1121.6 | 1175.2 | 1219.6 | 1239.7 | 1244.7 |
| 22.5° | 1736.0 | 1421.3 | 1037.1 | 970.1 | 996.1 | 1052.2 | 1108.2 | 1158.5 | 1197.8 | 1217.1 | 1223.8 |
| 25° | 1782.1 | 1382.8 | 968.5 | 934.1 | 976.8 | 1032.1 | 1074.8 | 1109.9 | 1137.5 | 1149.3 | 1158.5 |
| 27.5° | 1807.2 | 1325.0 | 916.6 | 905.7 | 958.4 | 1003.6 | 1027.0 | 1037.9 | 1047.1 | 1043.8 | 1050.5 |
| 30° | 1812.2 | 1253.0 | 871.4 | 883.1 | 930.8 | 964.3 | 969.3 | 958.4 | 942.5 | 916.6 | 922.4 |
| 32.5° | 1807.2 | 1170.2 | 833.7 | 858.8 | 899.8 | 919.9 | 913.2 | 884.8 | 846.2 | 806.1 | 808.6 |
| 35° | 1808.8 | 1086.5 | 802.7 | 832.0 | 863.8 | 874.7 | 858.0 | 818.6 | 777.6 | 740.8 | 739.1 |
| 37.5° | 1827.3 | 1016.2 | 776.8 | 806.1 | 828.7 | 830.3 | 811.9 | 770.9 | 750.0 | 722.4 | 719.0 |
| 40° | 1878.3 | 964.3 | 753.3 | 780.1 | 794.4 | 793.5 | 772.6 | 743.3 | 757.5 | 748.3 | 745.8 |
| 42.5° | 1962.0 | 932.5 | 734.1 | 752.5 | 762.5 | 764.2 | 747.5 | 729.1 | 760.0 | 748.3 | 744.1 |
| 45° | 2096.8 | 930.8 | 720.7 | 724.9 | 740.8 | 752.5 | 740.8 | 719.9 | 731.6 | 674.7 | 663.8 |
| 47.5° | 2256.7 | 959.2 | 710.6 | 700.6 | 728.2 | 749.1 | 730.7 | 697.3 | 673.0 | 621.1 | 613.5 |
| 50° | 2449.2 | 1017.0 | 701.4 | 674.7 | 709.8 | 736.6 | 718.2 | 672.1 | 635.3 | 607.7 | 603.5 |
| 52.5° | 2677.7 | 1093.2 | 689.7 | 645.4 | 682.2 | 729.9 | 718.2 | 669.6 | 621.1 | 596.0 | 591.8 |
| 55° | 2917.1 | 1181.1 | 676.3 | 610.2 | 651.2 | 731.6 | 724.0 | 652.1 | 610.2 | 596.8 | 593.5 |
| 57.5° | 3214.2 | 1286.5 | 652.1 | 569.2 | 623.6 | 716.5 | 700.6 | 642.0 | 602.7 | 591.8 | 588.4 |
| 60° | 3600.1 | 1443.1 | 606.0 | 527.3 | 591.8 | 689.7 | 679.7 | 625.3 | 582.6 | 573.4 | 570.9 |
| 62.5° | 4211.1 | 1708.4 | 549.9 | 487.2 | 554.1 | 633.6 | 648.7 | 593.5 | 557.5 | 556.6 | 555.8 |
| 65° | 5207.2 | 2027.3 | 483.8 | 451.2 | 514.8 | 587.6 | 607.7 | 560.8 | 531.5 | 540.7 | 539.9 |
| 67.5° | 5905.3 | 2054.9 | 429.4 | 413.5 | 468.7 | 537.4 | 566.7 | 527.3 | 495.5 | 513.1 | 512.3 |
| 70° | 5408.9 | 1602.9 | 382.5 | 374.2 | 419.4 | 483.0 | 522.3 | 485.5 | 453.7 | 470.4 | 467.1 |
| 72.5° | 4561.9 | 1228.8 | 338.2 | 333.1 | 369.1 | 426.1 | 465.4 | 443.6 | 410.1 | 410.1 | 402.6 |
| 75° | 3666.2 | 1013.7 | 291.3 | 288.8 | 313.1 | 368.3 | 412.7 | 375.8 | 344.9 | 343.2 | 338.2 |
| 77.5° | 2102.6 | 664.6 | 244.4 | 242.7 | 250.3 | 308.0 | 320.6 | 313.1 | 289.6 | 278.7 | 275.4 |
| 80° | 837.9 | 345.7 | 192.5 | 181.6 | 189.2 | 226.0 | 252.8 | 240.2 | 220.1 | 206.7 | 199.2 |
| 82.5° | 324.8 | 173.3 | 135.6 | 118.9 | 129.7 | 163.2 | 183.3 | 179.1 | 165.7 | 135.6 | 127.2 |
| 85° | 132.3 | 84.5 | 81.2 | 68.6 | 75.3 | 87.9 | 105.5 | 91.2 | 75.3 | 53.6 | 51.1 |
| 87.5° | 35.2 | 31.0 | 30.1 | 18.4 | 14.2 | 4.2 | 0.8 | 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)