

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: P630854

Luminaire Tested: GWS-SA1E-740-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7582.7 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

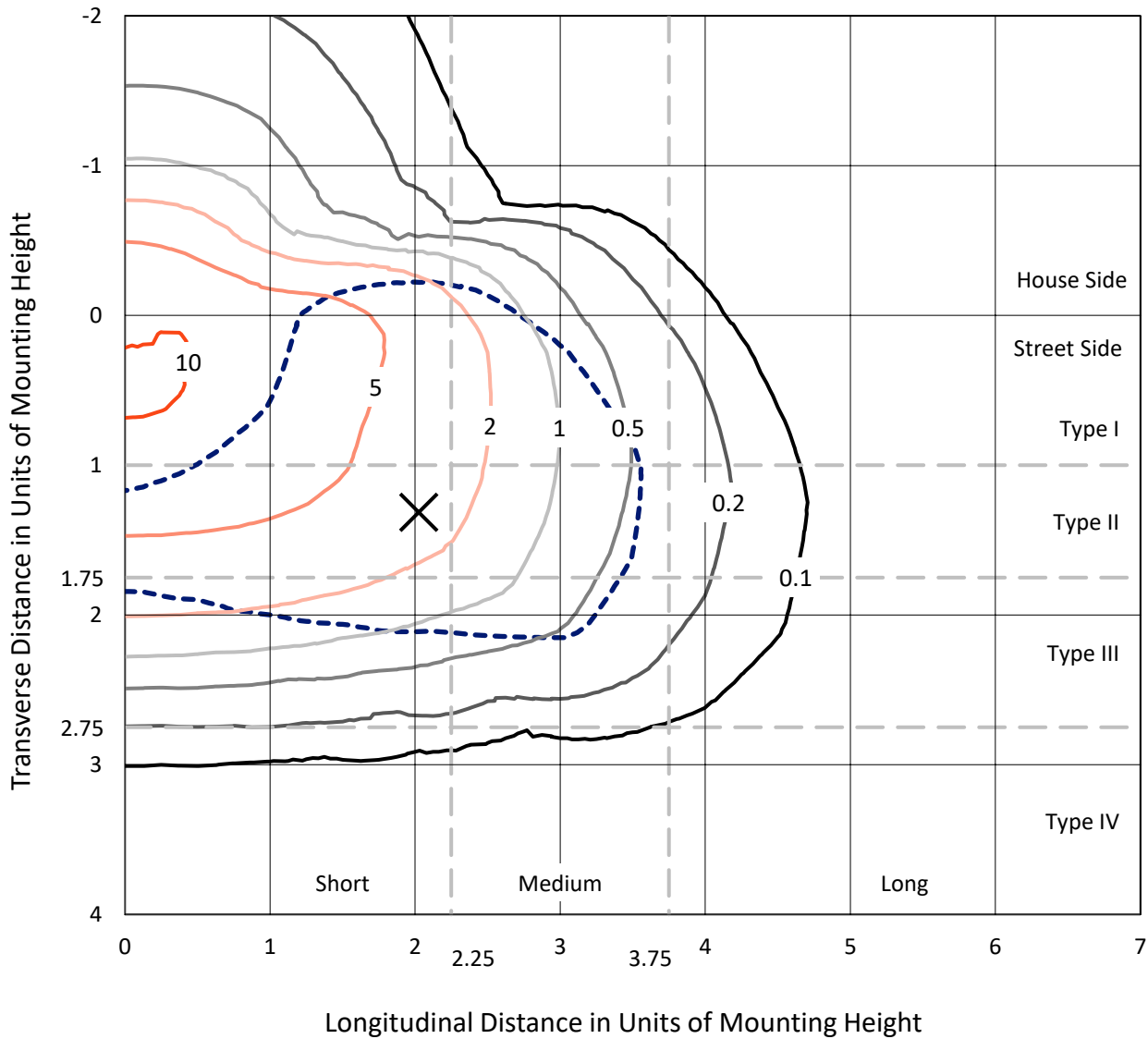
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

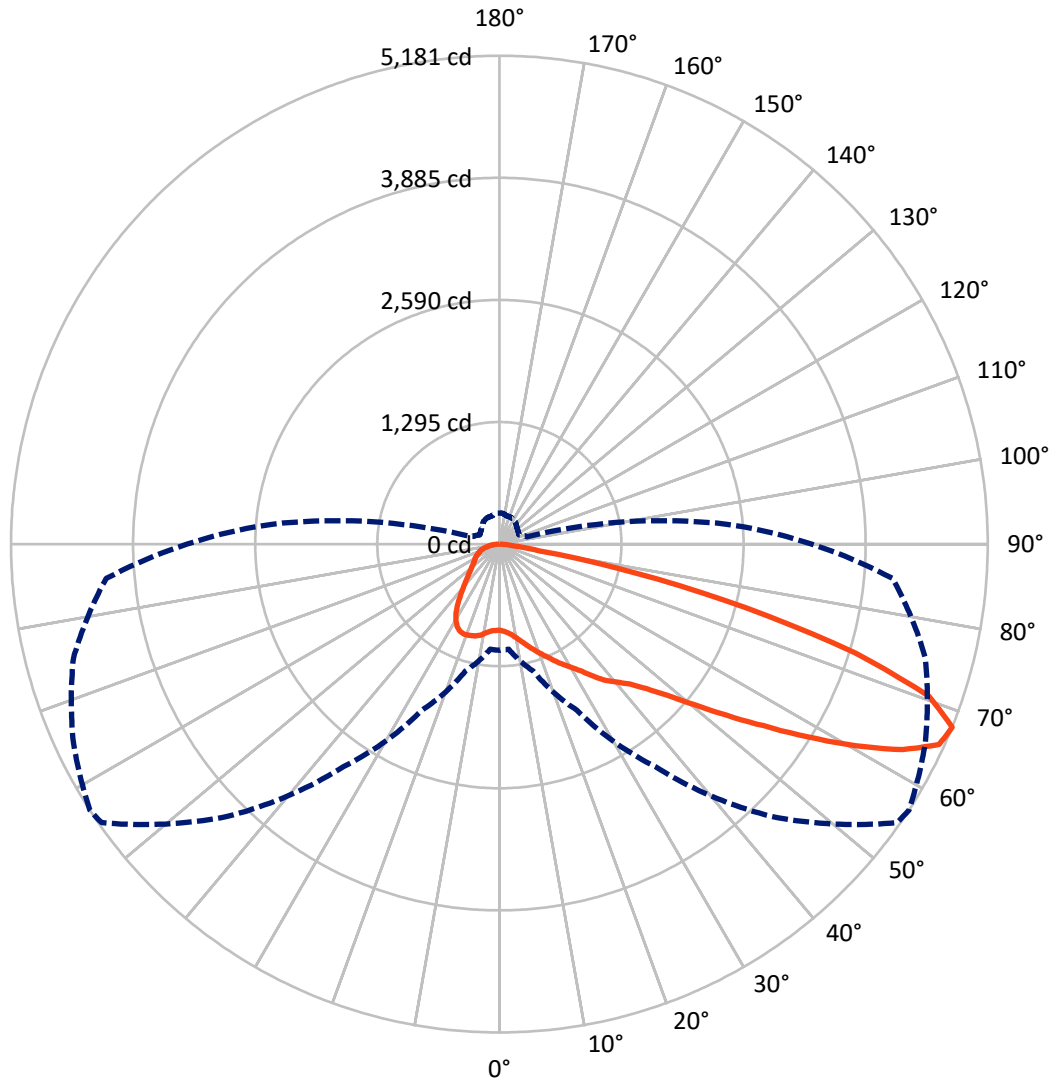
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1667.1 | 0.0 | 1667.1 |
| | % Fixture | 22.0 | 0.0 | 22.0 |
| Street Side | Lumens | 5915.5 | 0.0 | 5915.5 |
| | % Fixture | 78.0 | 0.0 | 78.0 |
| Total | Lumens | 7582.7 | 0.0 | 7582.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.6 | 1.2 |
| 10°-20° | 300.0 | 4.0 |
| 20°-30° | 534.8 | 7.1 |
| 30°-40° | 777.6 | 10.3 |
| 40°-50° | 1125.4 | 14.8 |
| 50°-60° | 1761.2 | 23.2 |
| 60°-70° | 2054.5 | 27.1 |
| 70°-80° | 857.7 | 11.3 |
| 80°-90° | 80.9 | 1.1 |
| 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° | 7582.7 | 100.0 |
| 0°-180° | 7582.7 | 100.0 |

Coefficient of Utilization



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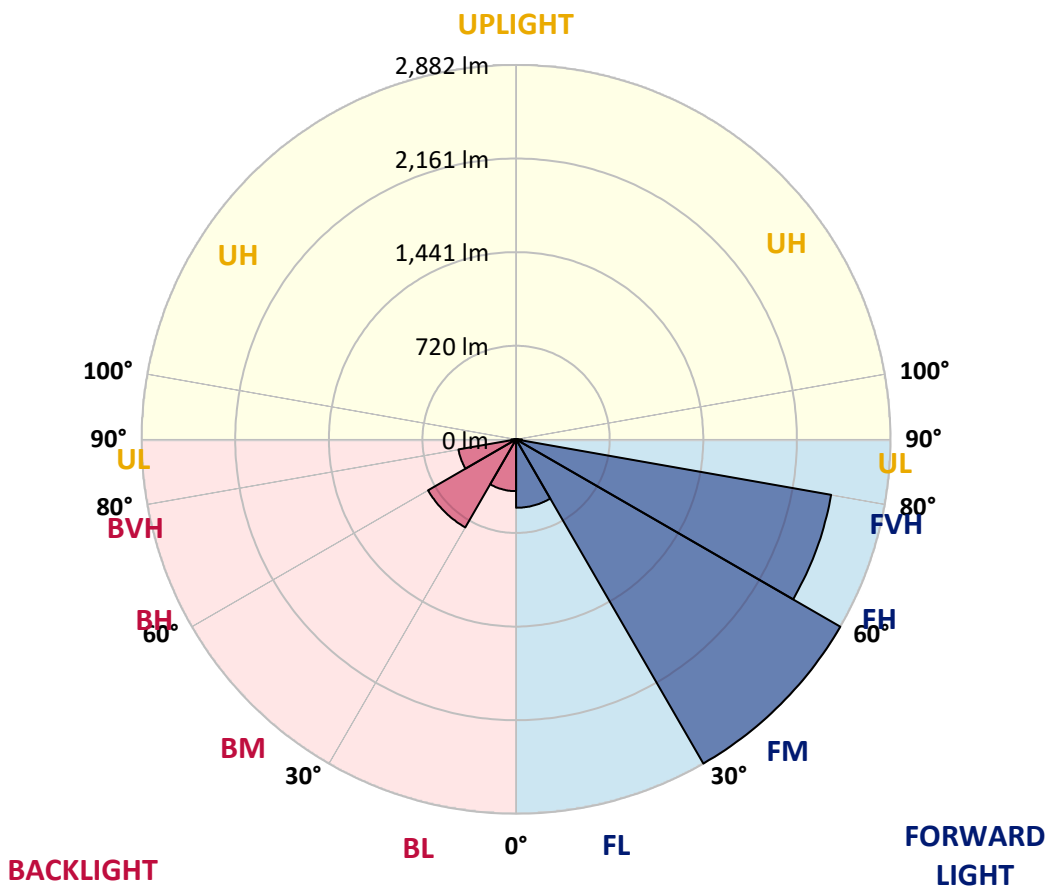
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 526.7 | 6.9 | | | |
| FM (30°-60°) | 2881.5 | 38.0 | | | |
| FH (60°-80°) | 2462.2 | 32.5 | | | G2/5000 |
| FVH (80°-90°) | 45.1 | 0.6 | | | G1/100 |
| BL (0°-30°) | 398.7 | 5.3 | B1/500 | | |
| BM (30°-60°) | 782.6 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 450.0 | 5.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.8 | 0.5 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 |
| 2.5° | 926.7 | 925.6 | 925.1 | 928.3 | 927.2 | 926.7 | 926.7 | 926.2 | 925.1 | 920.7 | 914.8 |
| 5° | 952.2 | 950.1 | 947.9 | 950.6 | 948.4 | 946.3 | 945.7 | 944.6 | 940.8 | 934.3 | 925.1 |
| 7.5° | 978.8 | 976.7 | 977.2 | 978.8 | 977.2 | 976.1 | 974.5 | 973.4 | 967.4 | 957.1 | 944.6 |
| 10° | 1016.3 | 1016.3 | 1017.4 | 1019.0 | 1019.6 | 1018.0 | 1014.7 | 1013.1 | 1006.0 | 993.0 | 975.6 |
| 12.5° | 1070.6 | 1069.6 | 1069.6 | 1068.5 | 1070.1 | 1068.5 | 1065.2 | 1062.5 | 1053.8 | 1037.0 | 1012.0 |
| 15° | 1142.4 | 1138.0 | 1134.2 | 1127.1 | 1125.0 | 1119.0 | 1120.1 | 1118.5 | 1110.3 | 1087.5 | 1056.0 |
| 17.5° | 1218.9 | 1218.4 | 1212.4 | 1198.3 | 1184.2 | 1174.4 | 1176.6 | 1176.0 | 1171.7 | 1140.7 | 1100.5 |
| 20° | 1286.3 | 1289.0 | 1283.6 | 1272.7 | 1253.7 | 1235.2 | 1234.2 | 1236.9 | 1231.4 | 1200.5 | 1144.5 |
| 22.5° | 1361.8 | 1359.6 | 1354.2 | 1340.1 | 1326.0 | 1306.4 | 1299.9 | 1297.7 | 1295.5 | 1260.2 | 1189.6 |
| 25° | 1433.5 | 1440.0 | 1433.0 | 1419.9 | 1398.2 | 1377.0 | 1371.6 | 1373.8 | 1367.8 | 1321.1 | 1238.0 |
| 27.5° | 1524.2 | 1526.9 | 1522.6 | 1504.7 | 1486.2 | 1456.3 | 1446.0 | 1446.0 | 1443.8 | 1378.1 | 1276.0 |
| 30° | 1620.9 | 1628.5 | 1620.9 | 1606.2 | 1587.2 | 1544.3 | 1522.0 | 1519.9 | 1513.4 | 1436.8 | 1320.5 |
| 32.5° | 1718.1 | 1723.6 | 1718.1 | 1704.0 | 1682.3 | 1644.8 | 1612.8 | 1607.9 | 1599.2 | 1500.9 | 1366.1 |
| 35° | 1804.5 | 1809.4 | 1808.3 | 1811.6 | 1793.6 | 1746.4 | 1726.8 | 1724.7 | 1701.8 | 1584.5 | 1428.1 |
| 37.5° | 1899.0 | 1905.0 | 1896.9 | 1903.4 | 1896.3 | 1851.8 | 1845.8 | 1834.9 | 1802.3 | 1663.3 | 1493.3 |
| 40° | 2006.6 | 2012.0 | 1999.0 | 2001.7 | 1993.5 | 1968.6 | 1938.1 | 1923.5 | 1875.1 | 1748.6 | 1595.9 |
| 42.5° | 2121.7 | 2134.2 | 2140.2 | 2135.3 | 2116.3 | 2102.2 | 2049.0 | 2030.5 | 1990.3 | 1902.3 | 1764.9 |
| 45° | 2288.5 | 2307.0 | 2315.7 | 2303.2 | 2295.0 | 2274.9 | 2209.7 | 2187.5 | 2166.3 | 2119.0 | 2000.6 |
| 47.5° | 2468.3 | 2485.1 | 2512.8 | 2518.3 | 2524.8 | 2509.6 | 2417.8 | 2396.1 | 2399.9 | 2394.4 | 2290.7 |
| 50° | 2611.7 | 2625.8 | 2688.3 | 2755.1 | 2810.5 | 2814.9 | 2697.5 | 2674.2 | 2694.8 | 2712.2 | 2640.0 |
| 52.5° | 2716.0 | 2728.5 | 2811.1 | 2949.0 | 3074.5 | 3167.4 | 3040.8 | 3014.2 | 3031.1 | 3070.2 | 3037.0 |
| 55° | 2800.7 | 2818.1 | 2904.5 | 3116.3 | 3370.0 | 3516.7 | 3435.7 | 3402.1 | 3395.0 | 3443.3 | 3462.4 |
| 57.5° | 2845.3 | 2850.7 | 2971.9 | 3247.3 | 3586.8 | 3859.4 | 3894.7 | 3856.7 | 3789.4 | 3816.0 | 3914.8 |
| 60° | 2743.7 | 2752.9 | 2918.6 | 3280.9 | 3757.9 | 4199.5 | 4376.6 | 4345.1 | 4201.7 | 4216.3 | 4325.5 |
| 62.5° | 2462.9 | 2475.9 | 2675.3 | 3120.7 | 3772.0 | 4426.5 | 4821.5 | 4801.4 | 4609.1 | 4529.8 | 4562.3 |
| 65° | 1975.6 | 1980.0 | 2186.4 | 2724.2 | 3491.2 | 4454.8 | 5131.6 | 5126.7 | 4893.7 | 4707.9 | 4568.3 |
| 67.5° | 1126.6 | 1119.0 | 1394.9 | 1943.0 | 2881.1 | 4087.6 | 5151.7 | 5180.5 | 4986.0 | 4678.6 | 4188.1 |
| 70° | 488.3 | 489.4 | 616.5 | 958.7 | 1864.8 | 3303.7 | 4785.1 | 4834.5 | 4718.8 | 4190.3 | 3332.0 |
| 72.5° | 226.0 | 229.2 | 284.1 | 415.0 | 796.3 | 2049.5 | 3901.8 | 3946.4 | 3846.9 | 3353.7 | 2424.3 |
| 75° | 159.7 | 162.4 | 189.6 | 237.9 | 366.1 | 798.5 | 2610.1 | 2703.5 | 2751.9 | 2508.5 | 1597.6 |
| 77.5° | 121.1 | 124.9 | 138.5 | 165.1 | 226.0 | 283.0 | 1248.8 | 1471.5 | 1752.9 | 1560.6 | 822.9 |
| 80° | 77.1 | 77.1 | 91.8 | 110.3 | 138.0 | 147.2 | 360.7 | 427.5 | 857.7 | 643.1 | 323.2 |
| 82.5° | 52.1 | 53.8 | 62.5 | 70.1 | 79.3 | 83.7 | 154.8 | 165.1 | 247.7 | 218.9 | 133.1 |
| 85° | 27.7 | 28.8 | 32.6 | 32.0 | 38.0 | 33.1 | 65.2 | 64.6 | 90.7 | 99.4 | 50.5 |
| 87.5° | 0.0 | 0.0 | 0.5 | 0.5 | 1.1 | 1.6 | 7.1 | 7.6 | 19.0 | 30.4 | 16.8 |
| 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° | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 | 913.7 |
| 2.5° | 918.0 | 911.5 | 914.8 | 913.7 | 916.9 | 916.9 | 910.9 | 909.3 | 909.9 | 903.3 | 901.2 |
| 5° | 926.2 | 918.6 | 920.2 | 918.0 | 921.3 | 924.0 | 921.3 | 921.3 | 924.5 | 919.6 | 916.9 |
| 7.5° | 944.6 | 935.9 | 935.9 | 933.2 | 937.0 | 939.2 | 937.0 | 940.3 | 946.3 | 941.4 | 938.7 |
| 10° | 974.0 | 963.6 | 964.2 | 960.9 | 962.6 | 961.5 | 952.8 | 950.1 | 951.7 | 947.3 | 945.2 |
| 12.5° | 1012.0 | 997.9 | 997.9 | 991.3 | 987.5 | 976.1 | 958.2 | 951.7 | 952.8 | 949.0 | 947.3 |
| 15° | 1048.4 | 1035.3 | 1032.6 | 1019.6 | 1002.2 | 981.0 | 964.7 | 960.4 | 961.5 | 957.7 | 954.9 |
| 17.5° | 1091.3 | 1074.5 | 1064.7 | 1040.8 | 1008.7 | 987.0 | 970.7 | 960.4 | 951.7 | 943.0 | 940.8 |
| 20° | 1130.9 | 1109.8 | 1091.8 | 1054.9 | 1015.8 | 985.9 | 955.5 | 930.0 | 908.8 | 897.4 | 894.7 |
| 22.5° | 1171.7 | 1144.5 | 1113.0 | 1064.7 | 1015.2 | 966.4 | 910.4 | 871.8 | 840.3 | 823.5 | 826.8 |
| 25° | 1210.3 | 1176.0 | 1133.1 | 1073.9 | 997.9 | 922.9 | 846.9 | 789.3 | 753.4 | 740.4 | 736.6 |
| 27.5° | 1242.3 | 1199.9 | 1151.6 | 1069.6 | 962.0 | 860.4 | 759.9 | 695.8 | 661.1 | 646.4 | 642.6 |
| 30° | 1278.2 | 1230.3 | 1178.2 | 1049.5 | 905.5 | 773.0 | 661.6 | 609.5 | 584.5 | 570.4 | 570.9 |
| 32.5° | 1319.4 | 1269.5 | 1215.7 | 1010.9 | 833.3 | 678.5 | 580.7 | 544.8 | 524.7 | 510.6 | 508.4 |
| 35° | 1374.8 | 1325.4 | 1240.7 | 952.8 | 741.5 | 591.5 | 525.3 | 495.9 | 471.0 | 452.5 | 448.7 |
| 37.5° | 1443.3 | 1409.6 | 1243.4 | 875.1 | 643.1 | 531.8 | 485.6 | 454.1 | 423.7 | 399.3 | 396.5 |
| 40° | 1560.6 | 1522.0 | 1221.1 | 777.9 | 559.5 | 493.2 | 452.5 | 416.1 | 380.8 | 353.6 | 349.8 |
| 42.5° | 1727.9 | 1648.6 | 1173.3 | 668.1 | 496.5 | 462.8 | 421.0 | 374.8 | 339.0 | 319.9 | 317.2 |
| 45° | 1940.9 | 1789.8 | 1101.6 | 564.9 | 449.8 | 432.9 | 387.8 | 339.5 | 320.5 | 306.9 | 304.2 |
| 47.5° | 2201.6 | 1954.4 | 1019.0 | 484.5 | 413.4 | 405.8 | 354.2 | 327.6 | 310.7 | 299.3 | 296.6 |
| 50° | 2513.4 | 2164.1 | 951.1 | 421.5 | 380.8 | 374.3 | 343.3 | 320.5 | 306.9 | 297.7 | 295.5 |
| 52.5° | 2869.2 | 2397.1 | 918.0 | 376.4 | 352.5 | 346.0 | 339.5 | 318.9 | 307.5 | 300.4 | 297.7 |
| 55° | 3238.6 | 2642.7 | 887.0 | 341.7 | 328.6 | 332.4 | 340.0 | 324.3 | 315.6 | 306.4 | 303.6 |
| 57.5° | 3595.4 | 2873.0 | 811.0 | 314.5 | 311.3 | 325.9 | 342.8 | 329.7 | 319.4 | 310.2 | 306.9 |
| 60° | 3841.5 | 2999.0 | 682.3 | 292.8 | 298.2 | 317.8 | 335.7 | 321.6 | 308.5 | 304.7 | 303.1 |
| 62.5° | 3907.8 | 2983.8 | 529.6 | 270.5 | 282.5 | 299.8 | 317.2 | 308.0 | 294.4 | 300.4 | 300.9 |
| 65° | 3753.0 | 2820.8 | 397.6 | 248.8 | 261.8 | 276.5 | 298.2 | 294.4 | 289.5 | 305.8 | 306.4 |
| 67.5° | 3314.6 | 2420.5 | 303.1 | 229.8 | 240.6 | 258.6 | 292.2 | 308.0 | 309.1 | 329.7 | 327.6 |
| 70° | 2508.0 | 1808.3 | 237.4 | 211.8 | 224.3 | 258.6 | 311.3 | 318.3 | 305.3 | 324.3 | 319.9 |
| 72.5° | 1733.9 | 1193.4 | 202.1 | 196.1 | 204.2 | 246.6 | 310.7 | 310.7 | 296.6 | 296.6 | 288.4 |
| 75° | 1077.2 | 701.8 | 176.0 | 176.0 | 176.0 | 215.7 | 302.0 | 286.3 | 261.3 | 249.9 | 243.4 |
| 77.5° | 531.8 | 341.1 | 147.8 | 153.2 | 147.2 | 180.3 | 246.6 | 234.1 | 218.9 | 207.0 | 202.6 |
| 80° | 227.1 | 170.6 | 119.5 | 125.5 | 118.4 | 135.8 | 195.6 | 192.8 | 178.2 | 162.4 | 157.5 |
| 82.5° | 104.3 | 88.0 | 95.6 | 98.3 | 86.4 | 102.1 | 142.9 | 142.9 | 134.7 | 113.0 | 104.8 |
| 85° | 44.5 | 46.7 | 66.3 | 66.3 | 54.3 | 57.6 | 76.6 | 72.8 | 65.2 | 53.2 | 48.9 |
| 87.5° | 15.2 | 22.8 | 33.7 | 29.3 | 11.4 | 4.9 | 2.7 | 1.1 | 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)