

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: P633761

Luminaire Tested: GWS-SA2F-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633761
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-SA2F-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15874.7 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

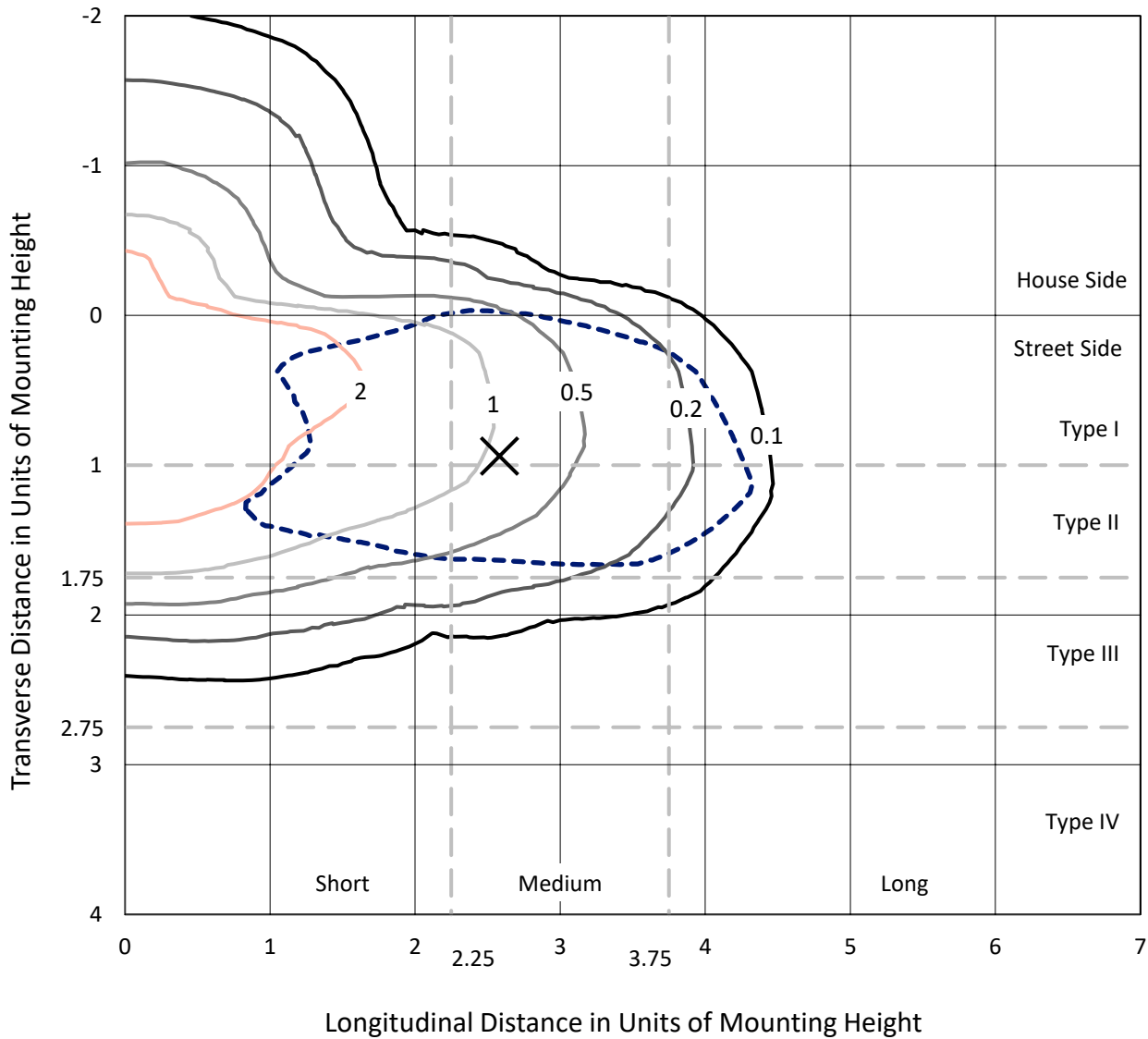
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

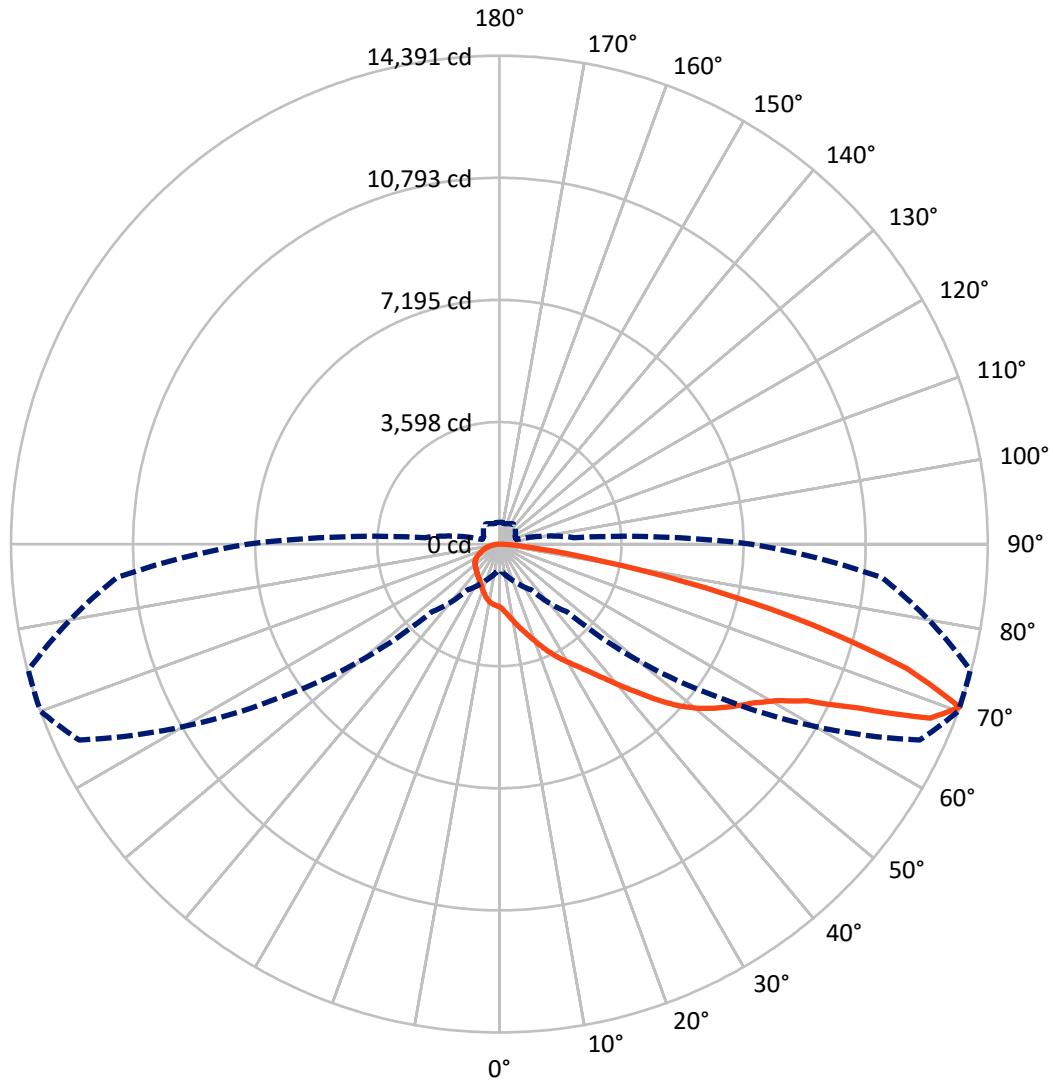
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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 | 2844.8 | 0.0 | 2844.8 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 13029.9 | 0.0 | 13029.9 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 15874.7 | 0.0 | 15874.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 188.2 | 1.2 |
| 10°-20° | 612.1 | 3.9 |
| 20°-30° | 1084.4 | 6.8 |
| 30°-40° | 1632.0 | 10.3 |
| 40°-50° | 2469.0 | 15.6 |
| 50°-60° | 3537.0 | 22.3 |
| 60°-70° | 3909.7 | 24.6 |
| 70°-80° | 2206.4 | 13.9 |
| 80°-90° | 236.0 | 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° | 15874.7 | 100.0 |
| 0°-180° | 15874.7 | 100.0 |

Coefficient of Utilization



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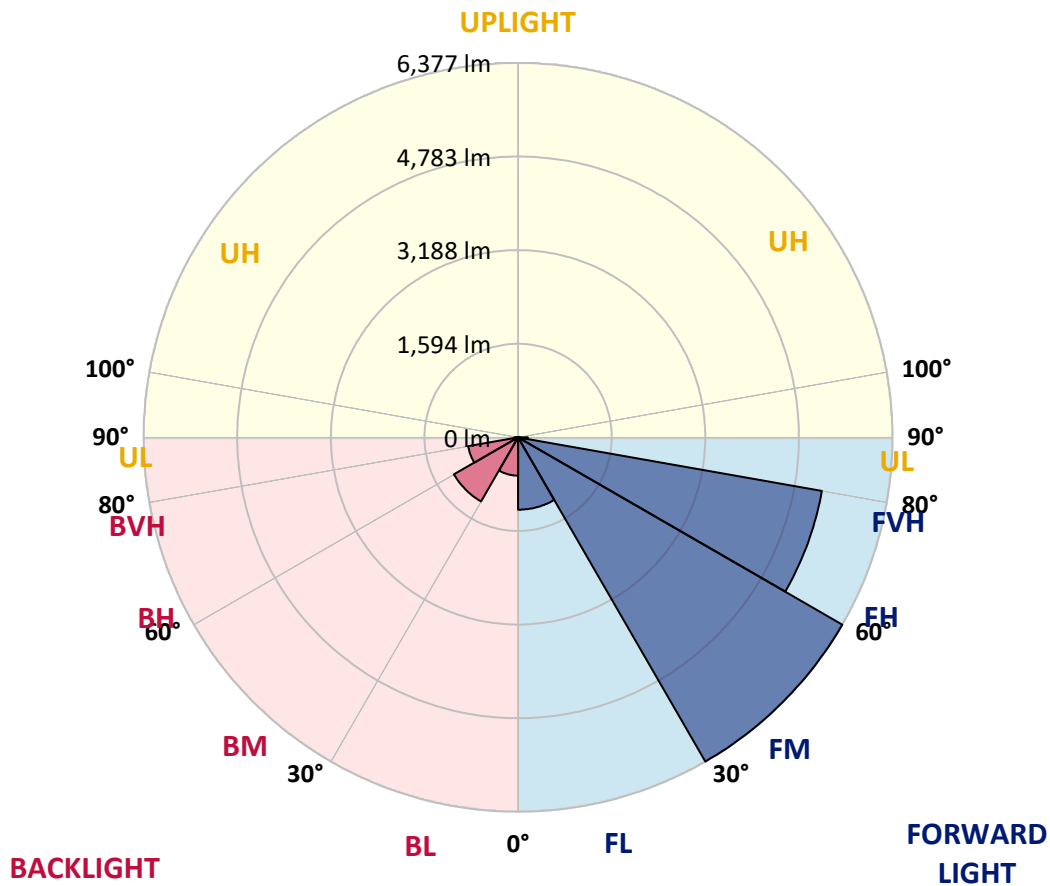
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1232.4 | 7.8 | | | |
| FM (30°-60°) | 6376.9 | 40.2 | | | |
| FH (60°-80°) | 5253.9 | 33.1 | | | G3/7500 |
| FVH (80°-90°) | 166.8 | 1.1 | | | G2/225 |
| BL (0°-30°) | 652.3 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 1261.1 | 7.9 | B2/2500 | | |
| BH (60°-80°) | 862.2 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 69.2 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 |
| 2.5° | 2050.9 | 2047.5 | 2049.8 | 2047.5 | 2034.8 | 2003.9 | 1978.6 | 1946.5 | 1924.7 | 1912.1 | 1882.3 |
| 5° | 2291.8 | 2288.3 | 2280.3 | 2268.8 | 2245.9 | 2203.5 | 2140.4 | 2070.4 | 2028.0 | 1995.8 | 1932.8 |
| 7.5° | 2465.0 | 2465.0 | 2463.8 | 2450.1 | 2434.0 | 2389.3 | 2314.7 | 2223.0 | 2161.0 | 2106.0 | 2002.7 |
| 10° | 2553.3 | 2559.0 | 2567.1 | 2586.6 | 2583.1 | 2559.0 | 2489.1 | 2390.4 | 2312.4 | 2248.2 | 2094.5 |
| 12.5° | 2601.5 | 2604.9 | 2618.7 | 2658.8 | 2700.1 | 2705.9 | 2664.6 | 2561.3 | 2476.5 | 2390.4 | 2196.6 |
| 15° | 2663.4 | 2664.6 | 2682.9 | 2731.1 | 2791.9 | 2852.7 | 2842.4 | 2739.1 | 2652.0 | 2556.7 | 2310.1 |
| 17.5° | 2711.6 | 2719.6 | 2752.9 | 2809.1 | 2884.8 | 2968.5 | 3019.0 | 2954.8 | 2846.9 | 2738.0 | 2434.0 |
| 20° | 2728.8 | 2734.5 | 2778.1 | 2864.2 | 2967.4 | 3085.5 | 3197.9 | 3180.7 | 3071.8 | 2943.3 | 2574.0 |
| 22.5° | 2790.7 | 2790.7 | 2822.9 | 2895.1 | 3016.7 | 3188.8 | 3371.1 | 3415.9 | 3319.5 | 3169.3 | 2724.2 |
| 25° | 2927.2 | 2922.7 | 2937.6 | 2967.4 | 3059.1 | 3271.4 | 3542.1 | 3676.3 | 3568.4 | 3399.8 | 2874.5 |
| 27.5° | 3114.2 | 3111.9 | 3110.8 | 3115.4 | 3146.3 | 3343.6 | 3686.6 | 3919.4 | 3811.6 | 3621.2 | 3008.7 |
| 30° | 3317.2 | 3310.4 | 3325.3 | 3311.5 | 3304.6 | 3429.6 | 3809.3 | 4137.4 | 4053.6 | 3840.3 | 3119.9 |
| 32.5° | 3593.7 | 3581.1 | 3577.6 | 3532.9 | 3505.3 | 3563.8 | 3908.0 | 4385.1 | 4318.6 | 4076.6 | 3245.0 |
| 35° | 3958.4 | 3947.0 | 3888.5 | 3817.3 | 3735.9 | 3763.4 | 4030.7 | 4627.1 | 4631.7 | 4372.5 | 3409.0 |
| 37.5° | 4326.6 | 4328.9 | 4283.0 | 4115.6 | 4031.8 | 4015.8 | 4217.7 | 4921.9 | 5020.6 | 4725.8 | 3621.2 |
| 40° | 4632.9 | 4646.6 | 4646.6 | 4470.0 | 4345.0 | 4330.1 | 4480.3 | 5271.8 | 5467.9 | 5159.4 | 3889.6 |
| 42.5° | 4865.7 | 4878.4 | 4918.5 | 4791.2 | 4659.3 | 4710.9 | 4799.2 | 5622.8 | 5974.9 | 5695.0 | 4229.1 |
| 45° | 5121.5 | 5131.8 | 5153.6 | 5080.2 | 5003.4 | 5141.0 | 5160.5 | 6042.6 | 6555.3 | 6296.1 | 4623.7 |
| 47.5° | 5461.0 | 5451.9 | 5454.2 | 5400.3 | 5340.6 | 5563.1 | 5558.5 | 6395.9 | 7116.2 | 6954.5 | 5051.6 |
| 50° | 5883.2 | 5900.4 | 5884.3 | 5777.6 | 5707.7 | 5910.7 | 5937.1 | 6787.0 | 7609.4 | 7606.0 | 5482.8 |
| 52.5° | 6289.2 | 6296.1 | 6381.0 | 6385.6 | 6242.2 | 6199.7 | 6268.6 | 7181.6 | 8025.8 | 8202.5 | 5896.9 |
| 55° | 6309.9 | 6336.2 | 6590.9 | 6774.4 | 7006.1 | 6665.4 | 6603.5 | 7557.8 | 8428.4 | 8786.3 | 6327.1 |
| 57.5° | 5870.5 | 5913.0 | 6345.4 | 6741.1 | 7385.8 | 7464.9 | 7177.0 | 8044.2 | 8831.0 | 9361.0 | 6824.9 |
| 60° | 4932.3 | 5020.6 | 5607.9 | 6213.5 | 7214.9 | 8039.6 | 8350.4 | 8704.9 | 9359.8 | 9948.3 | 7429.4 |
| 62.5° | 3149.8 | 3184.2 | 4007.7 | 5021.7 | 6445.2 | 7983.4 | 9628.2 | 9869.1 | 10165.0 | 10713.3 | 8360.8 |
| 65° | 1577.2 | 1687.3 | 2170.2 | 2997.2 | 4647.8 | 7034.8 | 10274.0 | 12001.5 | 11639.0 | 12023.2 | 9870.3 |
| 67.5° | 1070.2 | 1105.7 | 1350.1 | 1800.8 | 2725.4 | 4983.9 | 9873.7 | 13797.7 | 13691.0 | 13754.1 | 11479.6 |
| 70° | 789.2 | 812.1 | 1004.8 | 1275.5 | 1648.3 | 2829.7 | 7860.6 | 13662.4 | 14390.7 | 14367.8 | 11310.9 |
| 72.5° | 575.8 | 587.3 | 733.0 | 973.8 | 1221.6 | 1463.6 | 4800.4 | 11036.8 | 12562.4 | 13224.2 | 9892.1 |
| 75° | 418.7 | 432.4 | 509.3 | 728.4 | 949.7 | 913.0 | 2369.8 | 7971.9 | 9580.1 | 10853.3 | 8059.1 |
| 77.5° | 312.0 | 329.2 | 364.8 | 456.5 | 665.3 | 653.8 | 1024.3 | 5176.6 | 6196.3 | 7088.7 | 4895.6 |
| 80° | 224.8 | 228.3 | 248.9 | 292.5 | 422.1 | 383.1 | 487.5 | 2699.0 | 3094.7 | 3390.6 | 1919.0 |
| 82.5° | 136.5 | 139.9 | 166.3 | 180.1 | 261.5 | 240.9 | 253.5 | 874.0 | 1252.6 | 1329.4 | 716.9 |
| 85° | 40.1 | 42.4 | 75.7 | 82.6 | 109.0 | 103.2 | 102.1 | 355.6 | 424.4 | 542.5 | 282.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 6.9 | 12.6 | 63.1 | 95.2 | 131.9 | 68.8 |
| 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° | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 | 1851.3 |
| 2.5° | 1870.8 | 1844.4 | 1830.7 | 1806.6 | 1789.4 | 1772.2 | 1755.0 | 1738.9 | 1732.0 | 1721.7 | 1724.0 |
| 5° | 1904.1 | 1862.8 | 1821.5 | 1774.5 | 1734.3 | 1701.1 | 1671.2 | 1644.9 | 1633.4 | 1623.1 | 1627.6 |
| 7.5° | 1954.6 | 1892.6 | 1813.5 | 1727.4 | 1664.4 | 1618.5 | 1587.5 | 1569.1 | 1563.4 | 1555.4 | 1555.4 |
| 10° | 2018.8 | 1925.9 | 1787.1 | 1664.4 | 1588.6 | 1551.9 | 1538.2 | 1537.0 | 1542.8 | 1543.9 | 1541.6 |
| 12.5° | 2089.9 | 1958.0 | 1748.1 | 1589.8 | 1525.6 | 1514.1 | 1524.4 | 1543.9 | 1563.4 | 1573.7 | 1571.4 |
| 15° | 2163.3 | 1978.6 | 1681.6 | 1518.7 | 1479.7 | 1494.6 | 1527.9 | 1566.9 | 1604.7 | 1624.2 | 1623.1 |
| 17.5° | 2232.1 | 1983.2 | 1595.5 | 1449.9 | 1439.5 | 1477.4 | 1534.7 | 1595.5 | 1647.1 | 1674.7 | 1675.8 |
| 20° | 2309.0 | 1975.2 | 1507.2 | 1387.9 | 1399.4 | 1461.3 | 1537.0 | 1610.4 | 1671.2 | 1698.8 | 1705.6 |
| 22.5° | 2379.0 | 1947.7 | 1421.2 | 1329.4 | 1365.0 | 1441.8 | 1518.7 | 1587.5 | 1641.4 | 1667.8 | 1677.0 |
| 25° | 2442.0 | 1894.9 | 1327.1 | 1280.1 | 1338.6 | 1414.3 | 1472.8 | 1521.0 | 1558.8 | 1574.9 | 1587.5 |
| 27.5° | 2476.5 | 1815.8 | 1256.0 | 1241.1 | 1313.4 | 1375.3 | 1407.4 | 1422.3 | 1434.9 | 1430.4 | 1439.5 |
| 30° | 2483.3 | 1717.1 | 1194.1 | 1210.1 | 1275.5 | 1321.4 | 1328.3 | 1313.4 | 1291.6 | 1256.0 | 1264.0 |
| 32.5° | 2476.5 | 1603.6 | 1142.4 | 1176.9 | 1233.1 | 1260.6 | 1251.4 | 1212.4 | 1159.7 | 1104.6 | 1108.0 |
| 35° | 2478.7 | 1488.9 | 1100.0 | 1140.2 | 1183.7 | 1198.7 | 1175.7 | 1121.8 | 1065.6 | 1015.1 | 1012.8 |
| 37.5° | 2504.0 | 1392.5 | 1064.5 | 1104.6 | 1135.6 | 1137.9 | 1112.6 | 1056.4 | 1027.7 | 989.9 | 985.3 |
| 40° | 2574.0 | 1321.4 | 1032.3 | 1069.0 | 1088.5 | 1087.4 | 1058.7 | 1018.6 | 1038.1 | 1025.5 | 1022.0 |
| 42.5° | 2688.7 | 1277.8 | 1006.0 | 1031.2 | 1045.0 | 1047.2 | 1024.3 | 999.1 | 1041.5 | 1025.5 | 1019.7 |
| 45° | 2873.3 | 1275.5 | 987.6 | 993.3 | 1015.1 | 1031.2 | 1015.1 | 986.5 | 1002.5 | 924.5 | 909.6 |
| 47.5° | 3092.4 | 1314.5 | 973.8 | 960.1 | 997.9 | 1026.6 | 1001.4 | 955.5 | 922.2 | 851.1 | 840.8 |
| 50° | 3356.2 | 1393.7 | 961.2 | 924.5 | 972.7 | 1009.4 | 984.2 | 921.1 | 870.6 | 832.7 | 827.0 |
| 52.5° | 3669.4 | 1498.0 | 945.2 | 884.4 | 934.8 | 1000.2 | 984.2 | 917.6 | 851.1 | 816.7 | 811.0 |
| 55° | 3997.4 | 1618.5 | 926.8 | 836.2 | 892.4 | 1002.5 | 992.2 | 893.5 | 836.2 | 817.8 | 813.2 |
| 57.5° | 4404.6 | 1763.0 | 893.5 | 780.0 | 854.5 | 981.9 | 960.1 | 879.8 | 825.9 | 811.0 | 806.4 |
| 60° | 4933.4 | 1977.5 | 830.5 | 722.6 | 811.0 | 945.2 | 931.4 | 856.8 | 798.3 | 785.7 | 782.3 |
| 62.5° | 5770.7 | 2341.1 | 753.6 | 667.6 | 759.3 | 868.3 | 889.0 | 813.2 | 763.9 | 762.8 | 761.6 |
| 65° | 7135.7 | 2778.1 | 663.0 | 618.3 | 705.4 | 805.2 | 832.7 | 768.5 | 728.4 | 741.0 | 739.8 |
| 67.5° | 8092.4 | 2816.0 | 588.4 | 566.6 | 642.3 | 736.4 | 776.5 | 722.6 | 679.0 | 703.1 | 702.0 |
| 70° | 7412.2 | 2196.6 | 524.2 | 512.7 | 574.7 | 661.8 | 715.8 | 665.3 | 621.7 | 644.6 | 640.0 |
| 72.5° | 6251.4 | 1683.9 | 463.4 | 456.5 | 505.8 | 583.8 | 637.8 | 607.9 | 562.0 | 562.0 | 551.7 |
| 75° | 5024.0 | 1389.1 | 399.2 | 395.7 | 429.0 | 504.7 | 565.5 | 515.0 | 472.6 | 470.3 | 463.4 |
| 77.5° | 2881.4 | 910.7 | 334.9 | 332.6 | 343.0 | 422.1 | 439.3 | 429.0 | 396.9 | 382.0 | 377.4 |
| 80° | 1148.2 | 473.7 | 263.8 | 248.9 | 259.2 | 309.7 | 346.4 | 329.2 | 301.7 | 283.3 | 273.0 |
| 82.5° | 445.1 | 237.4 | 185.8 | 162.9 | 177.8 | 223.7 | 251.2 | 245.5 | 227.1 | 185.8 | 174.3 |
| 85° | 181.2 | 115.9 | 111.3 | 94.1 | 103.2 | 120.4 | 144.5 | 125.0 | 103.2 | 73.4 | 70.0 |
| 87.5° | 48.2 | 42.4 | 41.3 | 25.2 | 19.5 | 5.7 | 1.1 | 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)