

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: P640527

Luminaire Tested: GWS-SA5E-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18536.6 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

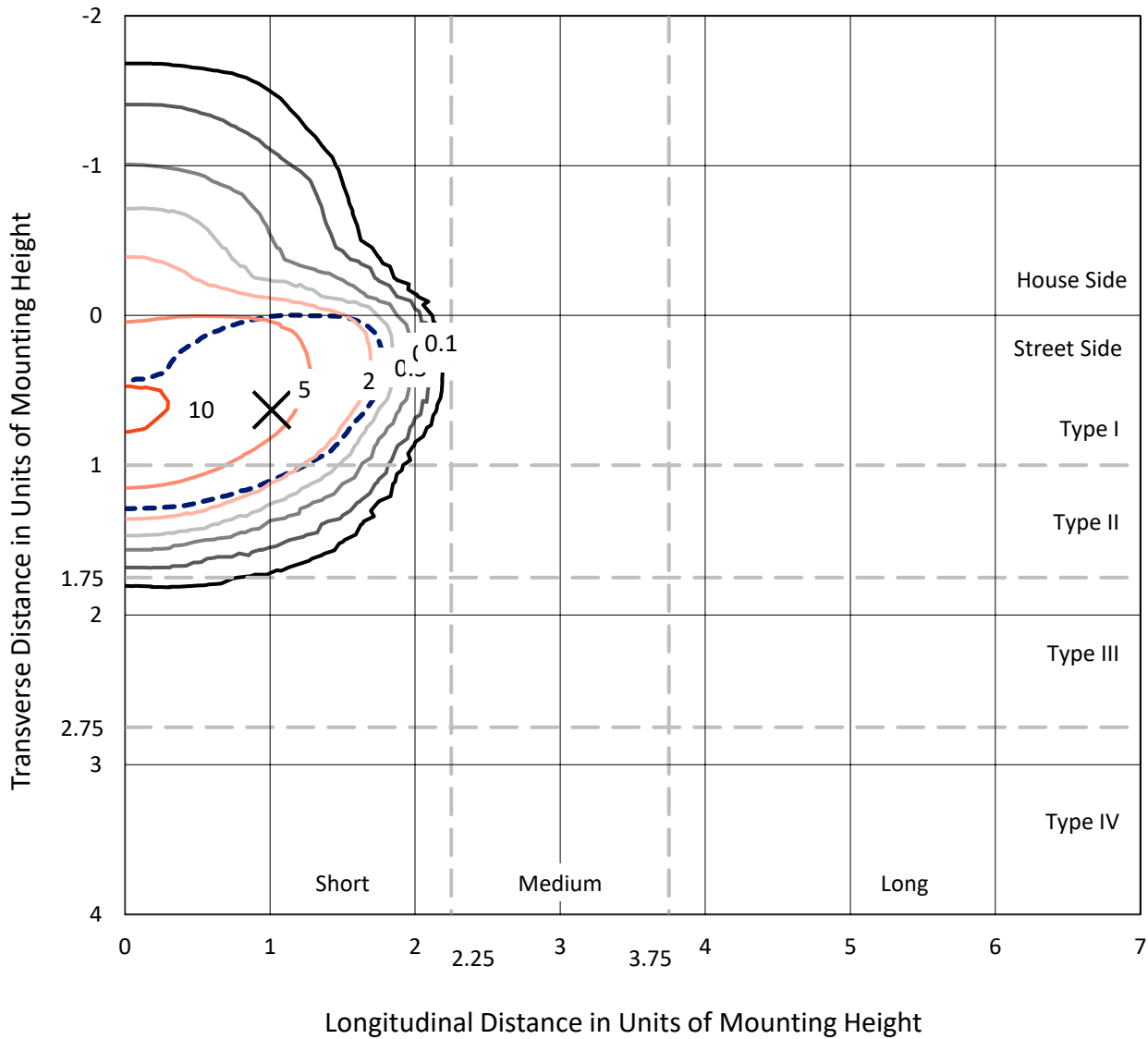
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

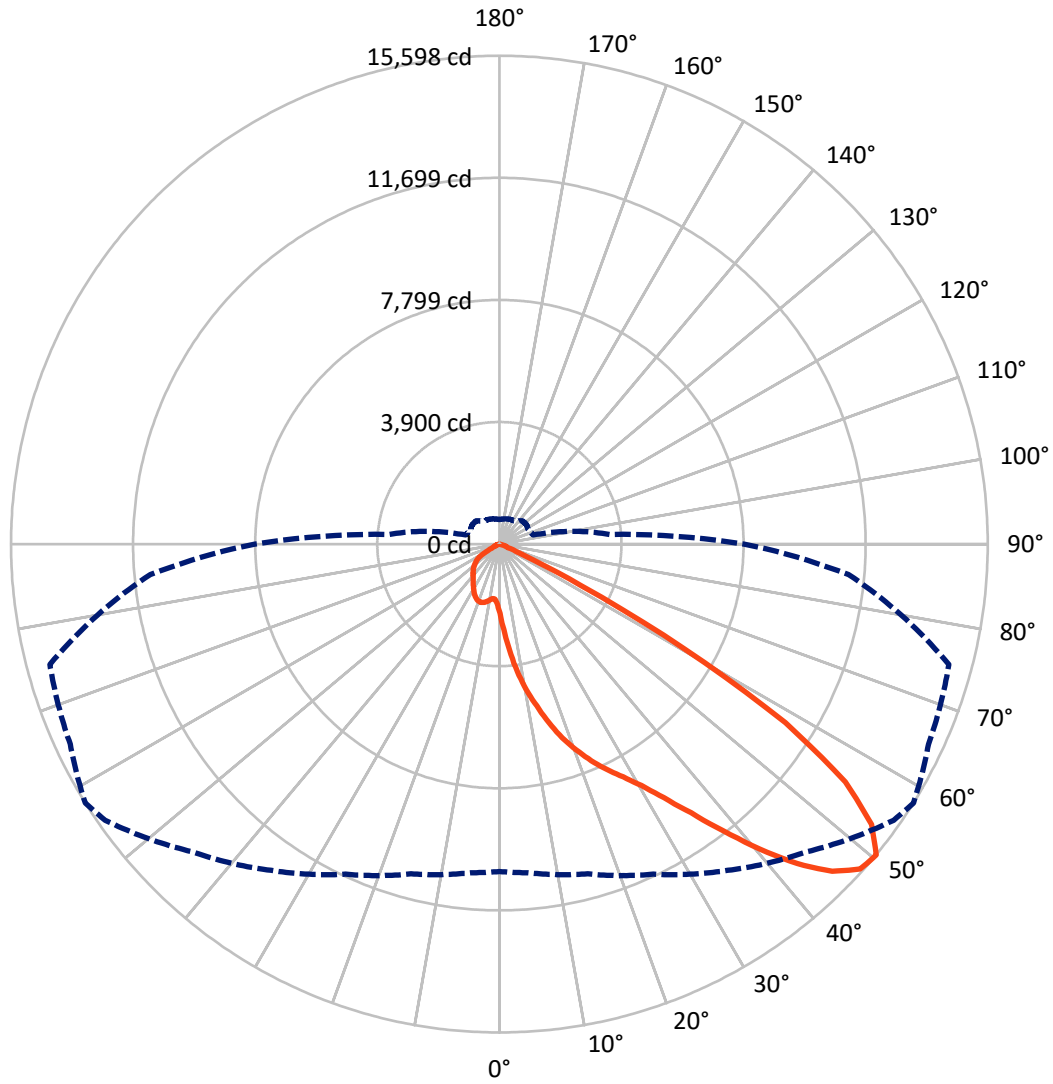
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2596.3 | 0.0 | 2596.3 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 15940.3 | 0.0 | 15940.3 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 18536.6 | 0.0 | 18536.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.3 | 1.5 |
| 10°-20° | 1085.9 | 5.9 |
| 20°-30° | 2197.3 | 11.9 |
| 30°-40° | 3887.3 | 21.0 |
| 40°-50° | 5666.8 | 30.6 |
| 50°-60° | 4542.1 | 24.5 |
| 60°-70° | 818.3 | 4.4 |
| 70°-80° | 64.5 | 0.3 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 18536.6 | 100.0 |
| 0°-180° | 18536.6 | 100.0 |

Coefficient of Utilization



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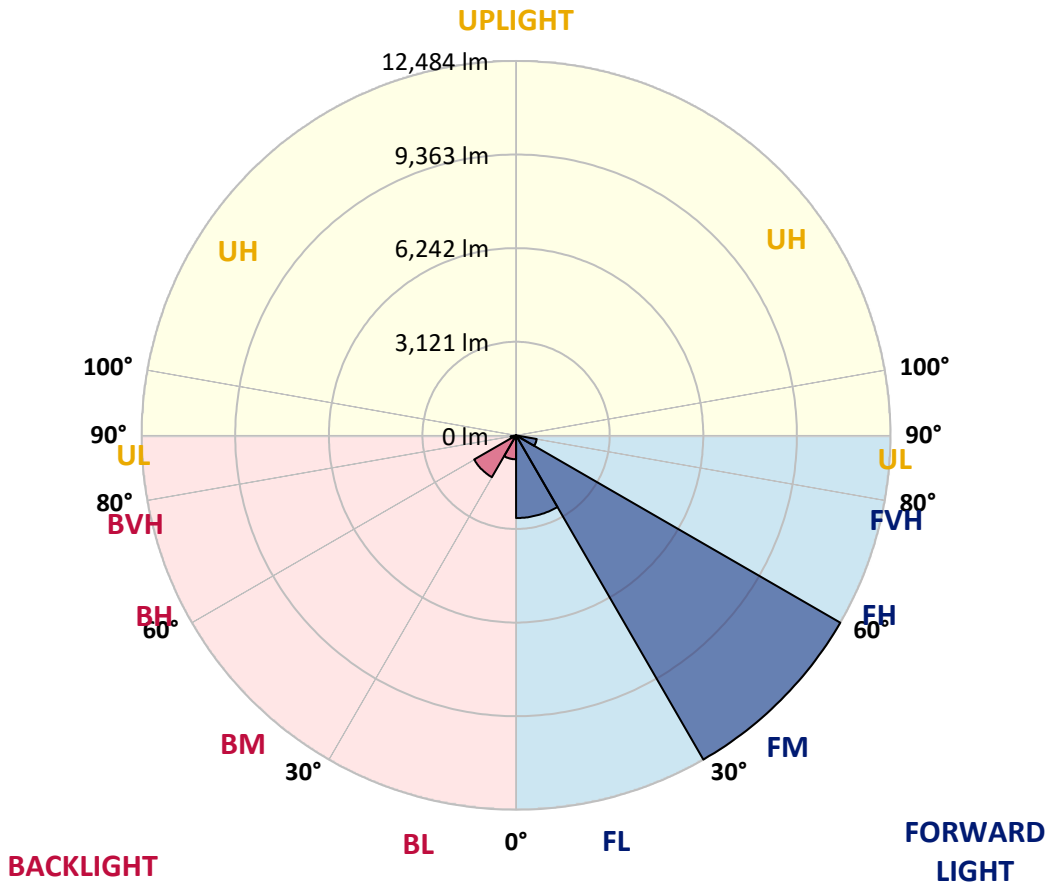
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2758.2 | 14.9 | | | |
| FM (30°-60°) | 12483.8 | 67.3 | | | |
| FH (60°-80°) | 698.3 | 3.8 | | | G1/1800 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 799.3 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1612.4 | 8.7 | B2/2500 | | |
| BH (60°-80°) | 184.5 | 1.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| 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° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 |
| 2.5° | 3276.6 | 3225.1 | 3195.4 | 3171.6 | 3066.5 | 2900.0 | 2791.0 | 2733.5 | 2638.4 | 2477.8 | 2339.0 |
| 5° | 4275.7 | 4238.0 | 4168.7 | 4121.1 | 3986.3 | 3750.4 | 3506.6 | 3409.5 | 3193.4 | 2830.6 | 2505.6 |
| 7.5° | 4937.8 | 4910.0 | 4884.2 | 4820.8 | 4694.0 | 4479.9 | 4210.3 | 4109.2 | 3776.2 | 3260.8 | 2727.6 |
| 10° | 5447.2 | 5425.4 | 5395.7 | 5393.7 | 5294.6 | 5102.3 | 4838.7 | 4733.6 | 4372.8 | 3728.6 | 2989.2 |
| 12.5° | 5895.2 | 5877.3 | 5871.4 | 5926.9 | 5863.5 | 5720.8 | 5435.3 | 5304.5 | 4921.9 | 4206.3 | 3278.6 |
| 15° | 6202.4 | 6198.5 | 6224.2 | 6333.3 | 6368.9 | 6303.5 | 6063.7 | 5922.9 | 5482.9 | 4686.0 | 3597.8 |
| 17.5° | 6343.2 | 6355.1 | 6404.6 | 6592.9 | 6751.5 | 6807.0 | 6622.7 | 6503.7 | 6039.9 | 5171.7 | 3938.7 |
| 20° | 6583.0 | 6579.1 | 6608.8 | 6787.2 | 6981.5 | 7179.7 | 7124.2 | 7023.1 | 6602.9 | 5685.1 | 4317.3 |
| 22.5° | 7259.0 | 7201.5 | 7138.1 | 7165.8 | 7235.2 | 7467.1 | 7570.2 | 7518.6 | 7183.6 | 6212.3 | 4707.8 |
| 25° | 8297.7 | 8238.2 | 8034.0 | 7835.8 | 7705.0 | 7810.0 | 7950.8 | 7976.5 | 7760.5 | 6753.5 | 5116.2 |
| 27.5° | 9399.8 | 9346.3 | 9116.3 | 8819.0 | 8444.4 | 8262.0 | 8367.0 | 8418.6 | 8327.4 | 7397.7 | 5550.3 |
| 30° | 10432.5 | 10361.2 | 10109.4 | 9740.7 | 9306.6 | 9027.1 | 8908.2 | 8943.9 | 8997.4 | 8160.9 | 6059.7 |
| 32.5° | 11328.5 | 11275.0 | 10973.7 | 10585.2 | 10166.9 | 9875.5 | 9598.0 | 9657.5 | 9788.3 | 9094.5 | 6711.9 |
| 35° | 12087.7 | 12060.0 | 11740.8 | 11354.3 | 10912.2 | 10763.6 | 10525.7 | 10537.6 | 10668.4 | 10222.4 | 7506.8 |
| 37.5° | 12747.8 | 12700.2 | 12410.8 | 12052.0 | 11701.2 | 11677.4 | 11612.0 | 11617.9 | 11685.3 | 11536.7 | 8420.6 |
| 40° | 13164.1 | 13120.5 | 12914.3 | 12692.3 | 12442.5 | 12446.5 | 12785.5 | 12811.2 | 12733.9 | 12827.1 | 9385.9 |
| 42.5° | 13320.7 | 13289.0 | 13177.9 | 13179.9 | 13154.2 | 13271.1 | 13907.4 | 13955.0 | 13677.5 | 13840.0 | 10210.5 |
| 45° | 13049.1 | 13035.2 | 13043.2 | 13328.6 | 13637.8 | 13998.6 | 14825.2 | 14908.4 | 14516.0 | 14512.0 | 10854.8 |
| 47.5° | 12173.0 | 12145.2 | 12377.1 | 12862.8 | 13578.4 | 14280.1 | 15380.2 | 15509.1 | 15102.7 | 14896.6 | 11259.1 |
| 50° | 10456.3 | 10535.6 | 10902.3 | 11631.8 | 12720.1 | 13893.5 | 15374.3 | 15598.3 | 15124.5 | 14862.9 | 11191.7 |
| 52.5° | 7574.1 | 7558.3 | 8361.1 | 9364.1 | 10688.3 | 12656.6 | 14557.6 | 14884.7 | 14595.3 | 14531.8 | 11041.1 |
| 55° | 4121.1 | 4265.8 | 4806.9 | 6135.0 | 7788.2 | 10315.6 | 12692.3 | 13405.9 | 13740.9 | 14410.9 | 11312.7 |
| 57.5° | 1514.4 | 1577.9 | 1916.8 | 2856.4 | 4123.1 | 6414.5 | 9695.1 | 10771.5 | 11806.2 | 14073.9 | 11267.1 |
| 60° | 610.5 | 622.4 | 757.2 | 1050.6 | 1732.5 | 3264.8 | 5815.9 | 6771.3 | 7746.6 | 10773.5 | 8646.5 |
| 62.5° | 444.0 | 459.9 | 513.4 | 614.5 | 876.2 | 1427.2 | 2507.5 | 2915.9 | 3187.4 | 5336.2 | 4259.8 |
| 65° | 358.8 | 370.7 | 414.3 | 459.9 | 578.8 | 767.1 | 808.8 | 779.0 | 775.1 | 1379.6 | 977.2 |
| 67.5° | 297.3 | 309.2 | 340.9 | 372.7 | 416.3 | 382.6 | 277.5 | 291.4 | 237.9 | 235.9 | 192.3 |
| 70° | 218.0 | 231.9 | 263.6 | 297.3 | 249.8 | 103.1 | 160.6 | 237.9 | 180.4 | 150.7 | 146.7 |
| 72.5° | 164.5 | 174.4 | 204.2 | 194.3 | 73.3 | 39.6 | 107.0 | 172.5 | 138.8 | 111.0 | 109.0 |
| 75° | 122.9 | 128.8 | 103.1 | 31.7 | 7.9 | 9.9 | 39.6 | 71.4 | 77.3 | 63.4 | 63.4 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 5.9 | 7.9 | 9.9 | 11.9 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 | 2214.2 |
| 2.5° | 2259.8 | 2176.5 | 2057.6 | 1958.5 | 1883.1 | 1809.8 | 1754.3 | 1698.8 | 1696.8 | 1669.0 | 1663.1 |
| 5° | 2354.9 | 2204.3 | 1986.2 | 1829.6 | 1734.5 | 1677.0 | 1637.3 | 1617.5 | 1607.6 | 1597.7 | 1593.7 |
| 7.5° | 2491.7 | 2275.6 | 1974.3 | 1807.8 | 1728.5 | 1690.9 | 1663.1 | 1651.2 | 1645.3 | 1637.3 | 1635.4 |
| 10° | 2660.2 | 2378.7 | 2017.9 | 1849.4 | 1780.1 | 1744.4 | 1714.6 | 1696.8 | 1686.9 | 1673.0 | 1669.0 |
| 12.5° | 2862.4 | 2505.6 | 2087.3 | 1918.8 | 1845.5 | 1797.9 | 1758.2 | 1732.5 | 1718.6 | 1700.8 | 1696.8 |
| 15° | 3080.4 | 2642.3 | 2164.6 | 1982.2 | 1895.0 | 1833.6 | 1784.0 | 1744.4 | 1718.6 | 1696.8 | 1690.9 |
| 17.5° | 3306.4 | 2781.1 | 2234.0 | 2025.9 | 1918.8 | 1845.5 | 1774.1 | 1720.6 | 1688.9 | 1661.1 | 1653.2 |
| 20° | 3560.1 | 2923.8 | 2279.6 | 2033.8 | 1910.9 | 1813.8 | 1730.5 | 1663.1 | 1631.4 | 1593.7 | 1585.8 |
| 22.5° | 3825.7 | 3056.6 | 2299.4 | 2015.9 | 1867.3 | 1754.3 | 1665.1 | 1595.7 | 1550.1 | 1510.5 | 1498.6 |
| 25° | 4083.4 | 3175.6 | 2289.5 | 1966.4 | 1801.9 | 1671.0 | 1579.8 | 1508.5 | 1458.9 | 1419.3 | 1409.4 |
| 27.5° | 4357.0 | 3274.7 | 2253.8 | 1893.0 | 1712.7 | 1579.8 | 1492.6 | 1431.2 | 1385.6 | 1342.0 | 1332.1 |
| 30° | 4664.2 | 3365.8 | 2196.3 | 1803.8 | 1607.6 | 1486.7 | 1419.3 | 1377.7 | 1328.1 | 1282.5 | 1268.6 |
| 32.5° | 5034.9 | 3447.1 | 2113.1 | 1696.8 | 1514.4 | 1405.4 | 1367.7 | 1336.0 | 1278.5 | 1231.0 | 1221.1 |
| 35° | 5459.1 | 3514.5 | 2008.0 | 1585.8 | 1423.3 | 1353.9 | 1345.9 | 1304.3 | 1229.0 | 1173.5 | 1161.6 |
| 37.5° | 5950.7 | 3579.9 | 1883.1 | 1476.8 | 1355.9 | 1330.1 | 1332.1 | 1260.7 | 1169.5 | 1102.1 | 1094.2 |
| 40° | 6480.0 | 3645.3 | 1744.4 | 1381.6 | 1294.4 | 1316.2 | 1298.4 | 1197.3 | 1048.6 | 983.2 | 975.3 |
| 42.5° | 7031.0 | 3716.7 | 1603.6 | 1292.4 | 1242.9 | 1262.7 | 1236.9 | 1070.4 | 963.4 | 929.7 | 925.7 |
| 45° | 7528.6 | 3801.9 | 1451.0 | 1203.2 | 1191.3 | 1185.4 | 1141.8 | 969.3 | 923.7 | 899.9 | 898.0 |
| 47.5° | 7887.3 | 3788.1 | 1288.5 | 1118.0 | 1135.8 | 1116.0 | 983.2 | 921.7 | 884.1 | 852.4 | 844.4 |
| 50° | 7821.9 | 3546.2 | 1120.0 | 1022.8 | 1064.5 | 1046.6 | 884.1 | 866.2 | 832.5 | 798.8 | 787.0 |
| 52.5° | 7655.4 | 3217.2 | 973.3 | 921.7 | 987.2 | 945.5 | 816.7 | 798.8 | 769.1 | 725.5 | 711.6 |
| 55° | 7744.6 | 2907.9 | 858.3 | 840.5 | 907.9 | 783.0 | 741.4 | 713.6 | 681.9 | 634.3 | 628.4 |
| 57.5° | 7457.2 | 2372.7 | 689.8 | 701.7 | 802.8 | 668.0 | 650.2 | 606.6 | 553.0 | 521.3 | 517.4 |
| 60° | 5161.8 | 1274.6 | 432.1 | 446.0 | 580.8 | 561.0 | 582.8 | 543.1 | 477.7 | 448.0 | 442.0 |
| 62.5° | 2370.8 | 511.4 | 235.9 | 226.0 | 305.3 | 380.6 | 499.5 | 495.6 | 414.3 | 366.7 | 362.8 |
| 65° | 574.9 | 233.9 | 168.5 | 158.6 | 172.5 | 228.0 | 325.1 | 390.5 | 335.0 | 279.5 | 273.5 |
| 67.5° | 186.3 | 190.3 | 154.6 | 144.7 | 152.6 | 170.5 | 194.3 | 216.1 | 214.1 | 196.2 | 192.3 |
| 70° | 148.7 | 172.5 | 142.7 | 130.8 | 130.8 | 136.8 | 130.8 | 105.1 | 91.2 | 99.1 | 103.1 |
| 72.5° | 111.0 | 130.8 | 113.0 | 101.1 | 97.1 | 95.1 | 81.3 | 59.5 | 41.6 | 37.7 | 35.7 |
| 75° | 65.4 | 73.3 | 69.4 | 59.5 | 55.5 | 49.6 | 39.6 | 25.8 | 13.9 | 9.9 | 5.9 |
| 77.5° | 11.9 | 13.9 | 15.9 | 11.9 | 9.9 | 7.9 | 5.9 | 2.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 2.0 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)