

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: P635880

Luminaire Tested: GWS-SA3E-760-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-760-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22593.6 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 159.2
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

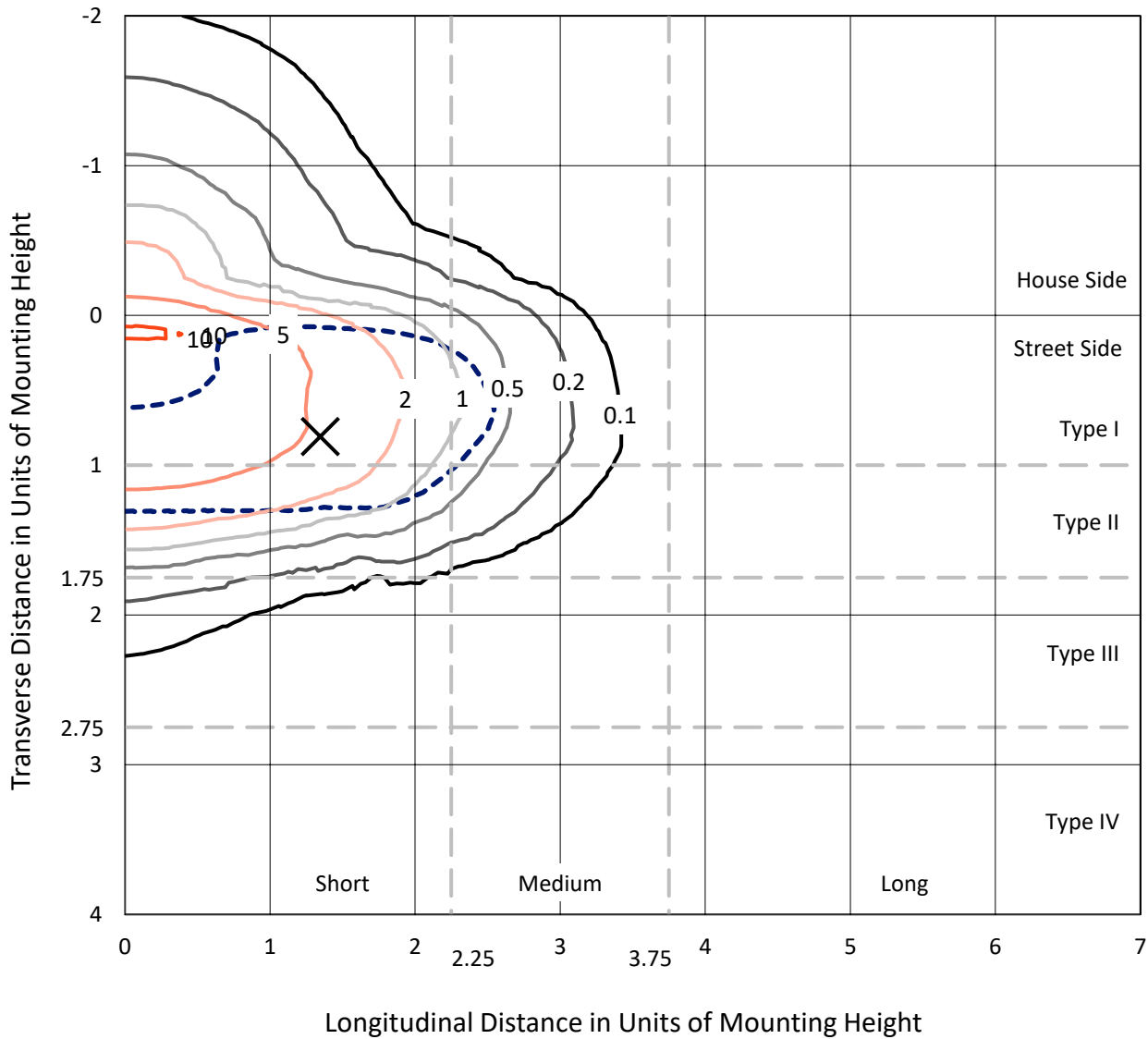


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Iso-Footcandle Lines of Horizontal Illumination

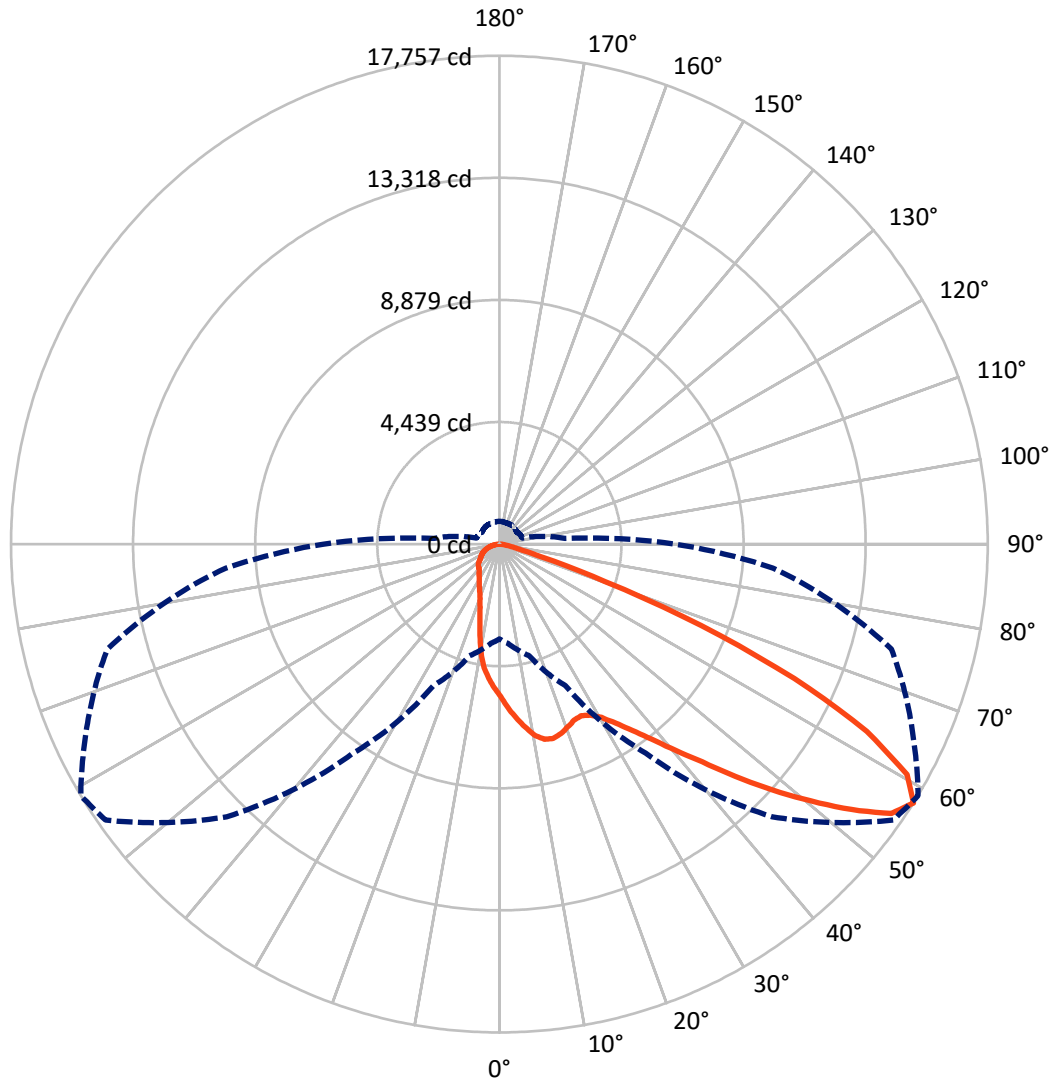
✕ Max cd
 - - - 1/2 Max cd



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 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3506.4 | 0.0 | 3506.4 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 19087.2 | 0.0 | 19087.2 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 22593.6 | 0.0 | 22593.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 515.0 | 2.3 |
| 10°-20° | 1305.0 | 5.8 |
| 20°-30° | 2115.4 | 9.4 |
| 30°-40° | 3402.8 | 15.1 |
| 40°-50° | 5284.3 | 23.4 |
| 50°-60° | 5691.9 | 25.2 |
| 60°-70° | 3303.3 | 14.6 |
| 70°-80° | 862.4 | 3.8 |
| 80°-90° | 113.6 | 0.5 |
| 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° | 22593.6 | 100.0 |
| 0°-180° | 22593.6 | 100.0 |

Coefficient of Utilization



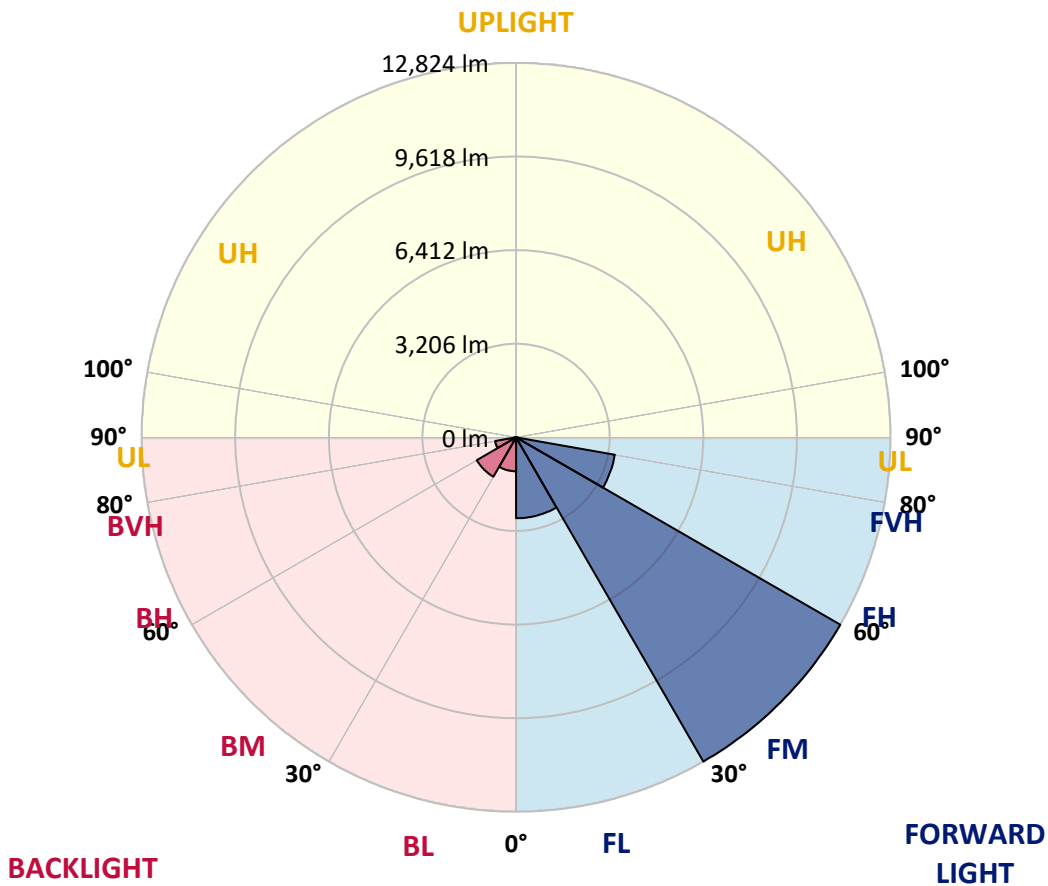
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2772.0 | 12.3 | | | |
| FM (30°-60°) | 12824.4 | 56.8 | | | |
| FH (60°-80°) | 3436.4 | 15.2 | | | G2/5000 |
| FVH (80°-90°) | 54.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1163.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 1554.6 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 729.3 | 3.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 59.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 |
| 2.5° | 6290.7 | 6238.2 | 6274.8 | 6209.5 | 6182.5 | 6110.9 | 6018.7 | 5956.6 | 5861.2 | 5737.1 | 5629.0 |
| 5° | 6915.7 | 6879.2 | 6887.1 | 6817.1 | 6755.1 | 6635.8 | 6446.5 | 6341.6 | 6179.3 | 5929.6 | 5697.4 |
| 7.5° | 6896.7 | 6939.6 | 6963.5 | 7023.9 | 7041.4 | 7030.3 | 6860.1 | 6713.7 | 6535.6 | 6160.2 | 5810.3 |
| 10° | 6182.5 | 6263.6 | 6336.8 | 6543.6 | 6794.9 | 7113.0 | 7152.7 | 7065.3 | 6885.5 | 6454.5 | 5945.5 |
| 12.5° | 5404.7 | 5466.7 | 5532.0 | 5780.1 | 6165.0 | 6801.2 | 7232.3 | 7286.3 | 7214.8 | 6745.6 | 6098.2 |
| 15° | 5023.0 | 5051.6 | 5113.6 | 5277.5 | 5584.5 | 6290.7 | 7093.9 | 7330.9 | 7459.7 | 7054.1 | 6270.0 |
| 17.5° | 5007.1 | 5019.8 | 5050.0 | 5137.5 | 5350.6 | 5896.2 | 6844.2 | 7241.8 | 7652.2 | 7380.2 | 6470.4 |
| 20° | 5336.3 | 5302.9 | 5283.8 | 5282.2 | 5387.2 | 5764.2 | 6602.4 | 7098.7 | 7742.8 | 7714.2 | 6685.1 |
| 22.5° | 5792.8 | 5803.9 | 5762.6 | 5660.8 | 5648.1 | 5858.0 | 6481.5 | 6953.9 | 7769.9 | 8010.1 | 6883.9 |
| 25° | 6440.2 | 6495.8 | 6373.4 | 6179.3 | 6083.9 | 6130.0 | 6556.3 | 6909.4 | 7766.7 | 8256.6 | 7008.0 |
| 27.5° | 7195.7 | 7238.6 | 7114.6 | 6860.1 | 6662.8 | 6551.5 | 6779.0 | 7041.4 | 7793.7 | 8469.7 | 7082.8 |
| 30° | 8056.2 | 8070.5 | 7900.3 | 7633.1 | 7345.2 | 7106.6 | 7149.6 | 7313.4 | 7932.1 | 8749.7 | 7170.2 |
| 32.5° | 9107.5 | 9168.0 | 8910.3 | 8487.2 | 8084.8 | 7779.4 | 7647.4 | 7752.4 | 8231.1 | 9080.5 | 7305.4 |
| 35° | 10442.0 | 10462.7 | 10135.0 | 9529.0 | 8959.6 | 8536.5 | 8259.8 | 8315.4 | 8686.0 | 9543.4 | 7509.0 |
| 37.5° | 11700.1 | 11720.8 | 11372.5 | 10809.4 | 9995.1 | 9416.1 | 9015.3 | 8989.8 | 9268.2 | 10197.1 | 7841.5 |
| 40° | 12498.6 | 12557.5 | 12401.6 | 12048.5 | 11270.7 | 10489.7 | 9945.8 | 9858.3 | 10031.7 | 10997.1 | 8304.3 |
| 42.5° | 12928.1 | 12953.5 | 12950.3 | 12996.5 | 12533.6 | 11757.4 | 10995.5 | 10820.6 | 10936.7 | 11860.8 | 8771.9 |
| 45° | 12931.2 | 12994.9 | 13165.1 | 13608.8 | 13629.5 | 13146.0 | 12322.1 | 12048.5 | 11941.9 | 12730.8 | 9260.2 |
| 47.5° | 12352.3 | 12420.7 | 12888.3 | 13761.5 | 14405.7 | 14515.4 | 13911.0 | 13362.3 | 12913.7 | 13480.0 | 9661.1 |
| 50° | 10599.5 | 10771.3 | 11662.0 | 13206.4 | 14558.4 | 15612.9 | 15426.8 | 14682.4 | 13777.4 | 14058.9 | 9912.4 |
| 52.5° | 9077.3 | 9071.0 | 9619.7 | 11638.1 | 13920.6 | 16096.5 | 16893.3 | 16040.8 | 14631.5 | 14426.4 | 9976.0 |
| 55° | 6646.9 | 6683.5 | 7245.0 | 8900.8 | 12218.7 | 15628.8 | 17699.7 | 17291.0 | 15611.3 | 14622.0 | 9950.5 |
| 57.5° | 3446.7 | 3628.1 | 4203.8 | 5679.9 | 9284.1 | 14019.2 | 17485.0 | 17757.0 | 16607.0 | 14760.4 | 9983.9 |
| 60° | 1741.7 | 1706.7 | 1913.4 | 2711.9 | 5379.3 | 10949.4 | 16161.7 | 17028.5 | 16786.8 | 14868.5 | 10004.6 |
| 62.5° | 1162.7 | 1153.2 | 1095.9 | 1256.5 | 2198.2 | 6484.7 | 13777.4 | 14992.6 | 15538.2 | 14614.1 | 9740.6 |
| 65° | 1006.8 | 987.7 | 882.8 | 876.4 | 1067.3 | 2689.6 | 10098.5 | 11786.0 | 12842.2 | 13483.2 | 9109.1 |
| 67.5° | 906.6 | 878.0 | 771.4 | 718.9 | 766.6 | 1181.8 | 5691.0 | 7905.1 | 9482.9 | 11402.7 | 7725.3 |
| 70° | 809.6 | 795.3 | 688.7 | 612.4 | 607.6 | 720.5 | 2096.4 | 4079.8 | 5802.4 | 7779.4 | 5648.1 |
| 72.5° | 725.3 | 699.8 | 609.2 | 536.0 | 499.4 | 510.6 | 909.8 | 1571.5 | 3003.0 | 4852.8 | 3378.3 |
| 75° | 628.3 | 609.2 | 529.7 | 456.5 | 412.0 | 373.8 | 555.1 | 726.9 | 1369.5 | 2306.3 | 1595.3 |
| 77.5° | 485.1 | 472.4 | 418.3 | 362.6 | 337.2 | 278.3 | 337.2 | 458.1 | 633.0 | 971.8 | 830.3 |
| 80° | 281.5 | 289.5 | 311.7 | 283.1 | 248.1 | 198.8 | 219.5 | 264.0 | 380.1 | 526.5 | 470.8 |
| 82.5° | 141.6 | 151.1 | 202.0 | 163.8 | 147.9 | 116.1 | 130.4 | 155.9 | 198.8 | 291.1 | 184.5 |
| 85° | 11.1 | 11.1 | 36.6 | 41.4 | 50.9 | 41.4 | 52.5 | 63.6 | 90.7 | 116.1 | 62.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.8 | 8.0 | 14.3 | 27.0 | 17.5 |
| 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° | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 | 5546.3 |
| 2.5° | 5555.8 | 5474.7 | 5377.7 | 5298.1 | 5175.7 | 5110.5 | 5027.8 | 4926.0 | 4884.6 | 4865.5 | 4854.4 |
| 5° | 5567.0 | 5423.8 | 5217.0 | 5026.2 | 4814.6 | 4647.6 | 4461.5 | 4267.5 | 4156.1 | 4129.1 | 4110.0 |
| 7.5° | 5608.3 | 5407.9 | 5078.7 | 4763.7 | 4370.9 | 4006.6 | 3651.9 | 3300.4 | 3120.7 | 3052.3 | 3045.9 |
| 10° | 5665.6 | 5401.5 | 4938.7 | 4415.4 | 3752.1 | 3176.3 | 2761.2 | 2486.0 | 2369.9 | 2331.8 | 2319.0 |
| 12.5° | 5737.1 | 5396.8 | 4754.2 | 3931.9 | 3038.0 | 2494.0 | 2257.0 | 2212.5 | 2228.4 | 2225.2 | 2225.2 |
| 15° | 5827.8 | 5403.1 | 4531.5 | 3384.7 | 2457.4 | 2164.7 | 2169.5 | 2222.0 | 2271.3 | 2279.3 | 2279.3 |
| 17.5° | 5926.4 | 5396.8 | 4208.6 | 2836.0 | 2109.1 | 2086.8 | 2160.0 | 2233.1 | 2277.7 | 2284.0 | 2284.0 |
| 20° | 6033.0 | 5366.5 | 3801.4 | 2319.0 | 1956.4 | 2037.5 | 2117.0 | 2174.3 | 2201.3 | 2207.7 | 2207.7 |
| 22.5° | 6096.6 | 5280.7 | 3359.3 | 1962.7 | 1859.4 | 1959.6 | 2012.1 | 2070.9 | 2074.1 | 2023.2 | 2021.6 |
| 25° | 6087.1 | 5120.0 | 2855.1 | 1733.7 | 1756.0 | 1843.5 | 1910.3 | 1868.9 | 1818.0 | 1789.4 | 1784.6 |
| 27.5° | 6026.6 | 4878.2 | 2341.3 | 1560.3 | 1633.5 | 1732.1 | 1711.4 | 1676.4 | 1663.7 | 1631.9 | 1628.7 |
| 30° | 5950.3 | 4580.8 | 1880.0 | 1425.1 | 1506.3 | 1596.9 | 1565.1 | 1561.9 | 1549.2 | 1514.2 | 1514.2 |
| 32.5° | 5877.1 | 4273.8 | 1531.7 | 1324.9 | 1425.1 | 1431.5 | 1476.0 | 1479.2 | 1472.9 | 1412.4 | 1406.1 |
| 35° | 5856.4 | 3966.9 | 1296.3 | 1245.4 | 1345.6 | 1342.4 | 1406.1 | 1404.5 | 1294.7 | 1210.4 | 1208.8 |
| 37.5° | 5918.5 | 3655.1 | 1156.3 | 1180.2 | 1235.9 | 1277.2 | 1328.1 | 1235.9 | 1199.3 | 1148.4 | 1145.2 |
| 40° | 6050.5 | 3367.2 | 1084.8 | 1142.0 | 1165.9 | 1226.3 | 1146.8 | 1153.2 | 1143.6 | 1105.4 | 1100.7 |
| 42.5° | 6225.4 | 3122.3 | 1045.0 | 1129.3 | 1126.1 | 1142.0 | 1054.5 | 1080.0 | 1094.3 | 1065.7 | 1060.9 |
| 45° | 6394.0 | 2909.1 | 1024.3 | 1081.6 | 1097.5 | 1005.2 | 987.7 | 1011.6 | 1033.9 | 1022.7 | 1018.0 |
| 47.5° | 6518.1 | 2724.6 | 1013.2 | 1016.4 | 1060.9 | 959.1 | 930.5 | 941.6 | 968.7 | 973.4 | 971.8 |
| 50° | 6556.3 | 2567.2 | 1000.5 | 962.3 | 952.7 | 913.0 | 890.7 | 887.5 | 919.3 | 941.6 | 944.8 |
| 52.5° | 6483.1 | 2427.2 | 967.1 | 914.6 | 868.4 | 874.8 | 866.9 | 850.9 | 882.8 | 913.0 | 916.2 |
| 55° | 6375.0 | 2347.7 | 914.6 | 868.4 | 814.4 | 839.8 | 843.0 | 828.7 | 849.4 | 870.0 | 870.0 |
| 57.5° | 6382.9 | 2393.8 | 863.7 | 825.5 | 766.6 | 800.1 | 817.5 | 811.2 | 811.2 | 827.1 | 828.7 |
| 60° | 6435.4 | 2460.6 | 830.3 | 771.4 | 718.9 | 753.9 | 793.7 | 787.3 | 773.0 | 793.7 | 793.7 |
| 62.5° | 6284.3 | 2371.5 | 808.0 | 718.9 | 668.0 | 709.4 | 757.1 | 753.9 | 738.0 | 771.4 | 774.6 |
| 65° | 5838.9 | 2132.9 | 782.6 | 653.7 | 617.1 | 664.9 | 706.2 | 717.3 | 703.0 | 747.6 | 755.5 |
| 67.5° | 4894.1 | 1794.1 | 733.2 | 591.7 | 566.2 | 610.8 | 650.5 | 666.4 | 655.3 | 707.8 | 714.2 |
| 70° | 3648.7 | 1452.2 | 655.3 | 523.3 | 504.2 | 544.0 | 580.6 | 586.9 | 588.5 | 650.5 | 656.9 |
| 72.5° | 2327.0 | 1129.3 | 551.9 | 446.9 | 432.6 | 462.9 | 489.9 | 515.3 | 526.5 | 585.3 | 583.7 |
| 75° | 1297.9 | 839.8 | 443.8 | 378.6 | 353.1 | 377.0 | 408.8 | 439.0 | 470.8 | 556.7 | 566.2 |
| 77.5° | 747.6 | 590.1 | 351.5 | 303.8 | 273.6 | 299.0 | 326.1 | 369.0 | 464.4 | 539.2 | 529.7 |
| 80° | 421.5 | 383.3 | 265.6 | 222.7 | 203.6 | 222.7 | 243.4 | 324.5 | 365.8 | 397.6 | 402.4 |
| 82.5° | 197.2 | 214.7 | 181.3 | 136.8 | 136.8 | 149.5 | 168.6 | 251.3 | 276.8 | 225.9 | 197.2 |
| 85° | 71.6 | 97.0 | 89.1 | 70.0 | 62.0 | 60.4 | 105.0 | 143.2 | 89.1 | 79.5 | 68.4 |
| 87.5° | 19.1 | 27.0 | 25.4 | 17.5 | 9.5 | 8.0 | 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)