

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: P633790

Luminaire Tested: GWS-SA2F-740-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633790
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-SA2F-740-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16519.7 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

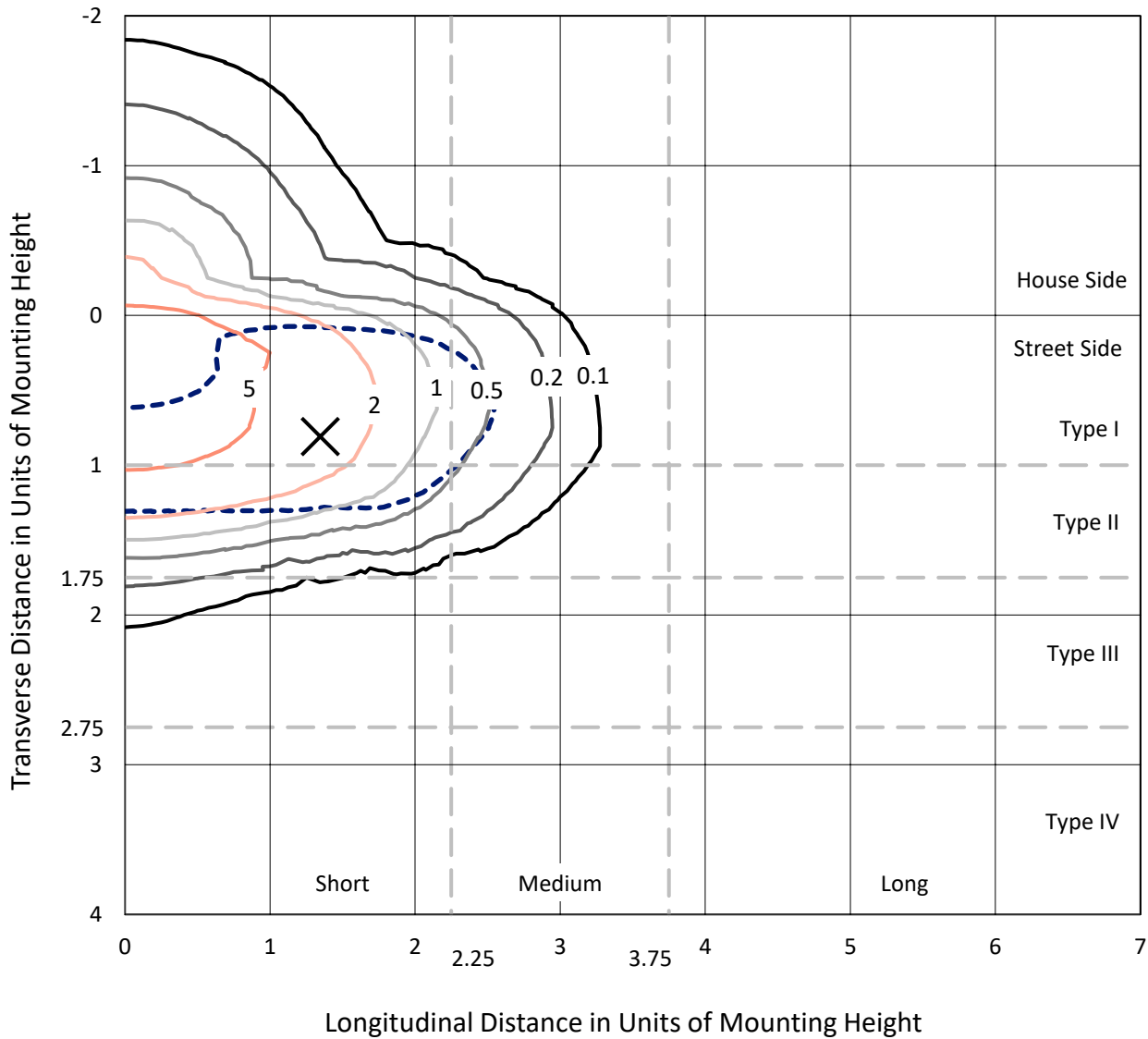
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

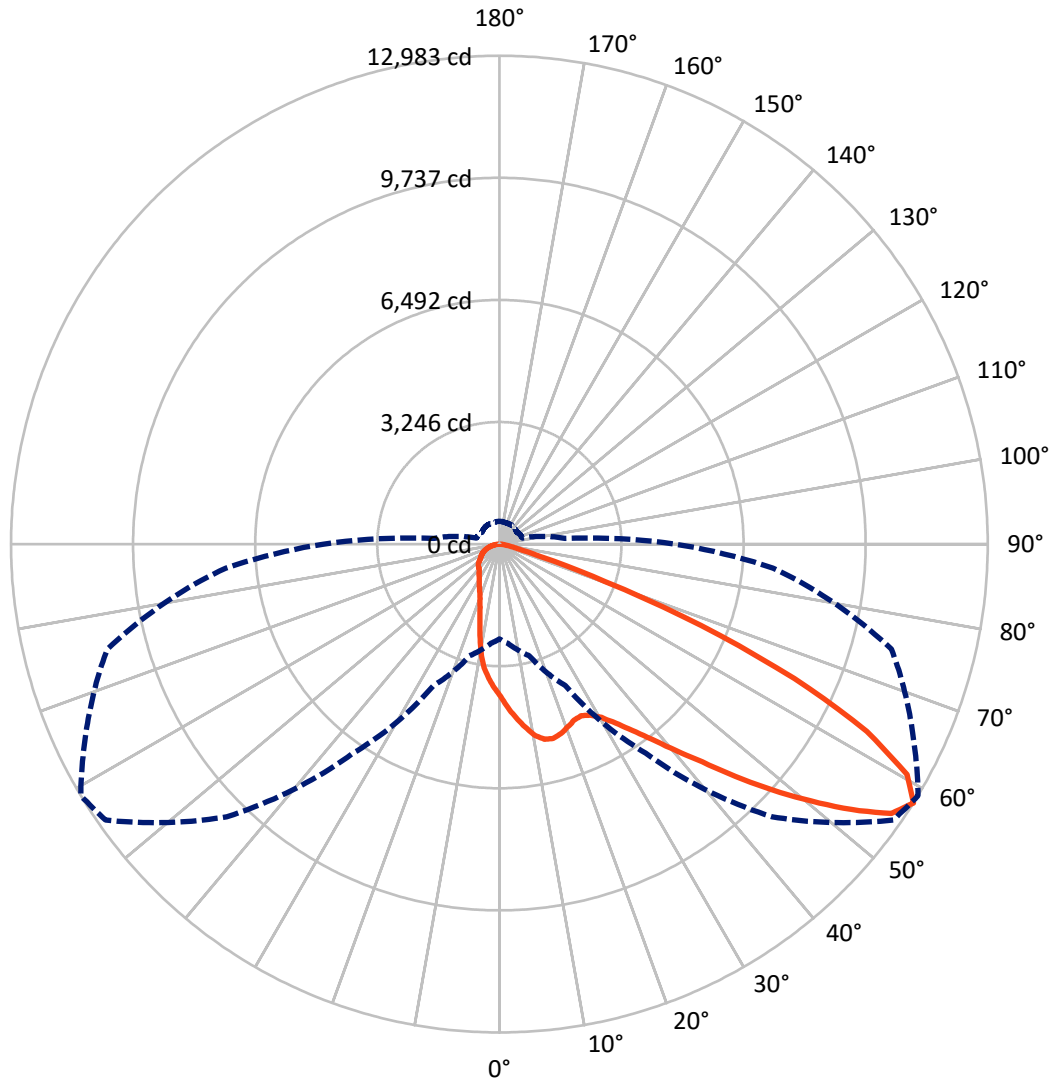
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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 | 2563.8 | 0.0 | 2563.8 |
| | % Fixture | 15.5 | 0.0 | 15.5 |
| Street Side | Lumens | 13955.9 | 0.0 | 13955.9 |
| | % Fixture | 84.5 | 0.0 | 84.5 |
| Total | Lumens | 16519.7 | 0.0 | 16519.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 376.5 | 2.3 |
| 10°-20° | 954.1 | 5.8 |
| 20°-30° | 1546.7 | 9.4 |
| 30°-40° | 2488.0 | 15.1 |
| 40°-50° | 3863.7 | 23.4 |
| 50°-60° | 4161.7 | 25.2 |
| 60°-70° | 2415.3 | 14.6 |
| 70°-80° | 630.5 | 3.8 |
| 80°-90° | 83.1 | 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° | 16519.7 | 100.0 |
| 0°-180° | 16519.7 | 100.0 |

Coefficient of Utilization



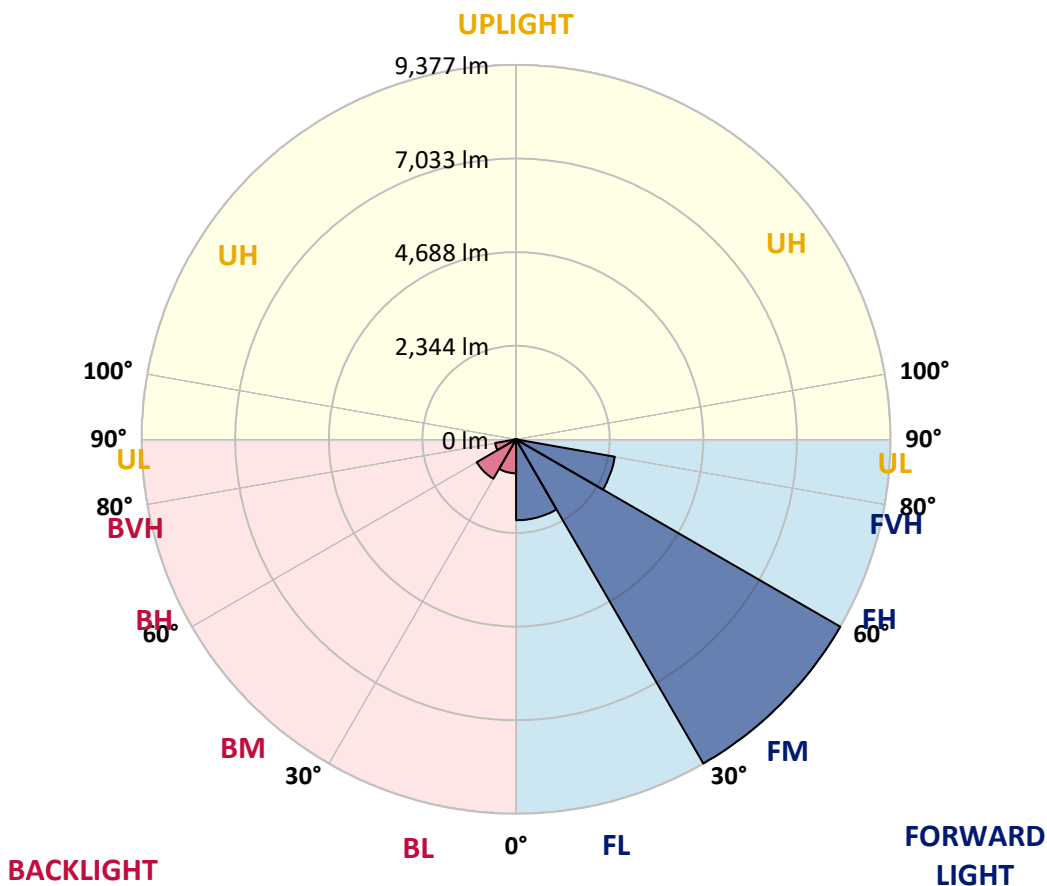
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2026.8 | 12.3 | | | |
| FM (30°-60°) | 9376.8 | 56.8 | | | |
| FH (60°-80°) | 2512.6 | 15.2 | | | G2/5000 |
| FVH (80°-90°) | 39.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 850.6 | 5.1 | B2/1000 | | |
| BM (30°-60°) | 1136.7 | 6.9 | B2/2500 | | |
| BH (60°-80°) | 533.2 | 3.2 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.3 | 0.3 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 |
| 2.5° | 4599.5 | 4561.1 | 4587.9 | 4540.2 | 4520.4 | 4468.1 | 4400.7 | 4355.3 | 4285.5 | 4194.8 | 4115.7 |
| 5° | 5056.6 | 5029.8 | 5035.6 | 4984.5 | 4939.1 | 4851.9 | 4713.5 | 4636.7 | 4518.1 | 4335.5 | 4165.7 |
| 7.5° | 5042.6 | 5074.0 | 5091.5 | 5135.6 | 5148.4 | 5140.3 | 5015.9 | 4908.9 | 4778.6 | 4504.2 | 4248.3 |
| 10° | 4520.4 | 4579.8 | 4633.2 | 4784.4 | 4968.2 | 5200.8 | 5229.8 | 5165.9 | 5034.5 | 4719.3 | 4347.2 |
| 12.5° | 3951.8 | 3997.1 | 4044.8 | 4226.2 | 4507.6 | 4972.8 | 5288.0 | 5327.5 | 5275.2 | 4932.1 | 4458.8 |
| 15° | 3672.6 | 3693.6 | 3738.9 | 3858.7 | 4083.2 | 4599.5 | 5186.8 | 5360.1 | 5454.3 | 5157.7 | 4584.4 |
| 17.5° | 3661.0 | 3670.3 | 3692.4 | 3756.4 | 3912.2 | 4311.1 | 5004.2 | 5295.0 | 5595.0 | 5396.2 | 4730.9 |
| 20° | 3901.7 | 3877.3 | 3863.4 | 3862.2 | 3939.0 | 4214.6 | 4827.5 | 5190.3 | 5661.3 | 5640.4 | 4887.9 |
| 22.5° | 4235.5 | 4243.7 | 4213.4 | 4139.0 | 4129.7 | 4283.2 | 4739.1 | 5084.5 | 5681.1 | 5856.7 | 5033.3 |
| 25° | 4708.8 | 4749.5 | 4660.0 | 4518.1 | 4448.3 | 4482.1 | 4793.7 | 5051.9 | 5678.8 | 6036.9 | 5124.0 |
| 27.5° | 5261.2 | 5292.6 | 5201.9 | 5015.9 | 4871.7 | 4790.2 | 4956.6 | 5148.4 | 5698.5 | 6192.8 | 5178.7 |
| 30° | 5890.4 | 5900.9 | 5776.4 | 5581.1 | 5370.6 | 5196.1 | 5227.5 | 5347.3 | 5799.7 | 6397.5 | 5242.6 |
| 32.5° | 6659.1 | 6703.3 | 6514.9 | 6205.6 | 5911.3 | 5688.1 | 5591.5 | 5668.3 | 6018.3 | 6639.4 | 5341.5 |
| 35° | 7634.9 | 7650.0 | 7410.4 | 6967.3 | 6551.0 | 6241.6 | 6039.3 | 6080.0 | 6350.9 | 6977.8 | 5490.4 |
| 37.5° | 8554.8 | 8569.9 | 8315.2 | 7903.5 | 7308.1 | 6884.7 | 6591.7 | 6573.1 | 6776.6 | 7455.8 | 5733.4 |
| 40° | 9138.6 | 9181.6 | 9067.6 | 8809.5 | 8240.8 | 7669.7 | 7272.0 | 7208.1 | 7334.8 | 8040.7 | 6071.8 |
| 42.5° | 9452.6 | 9471.2 | 9468.9 | 9502.6 | 9164.2 | 8596.6 | 8039.6 | 7911.6 | 7996.5 | 8672.2 | 6413.7 |
| 45° | 9454.9 | 9501.4 | 9625.9 | 9950.3 | 9965.4 | 9611.9 | 9009.5 | 8809.5 | 8731.5 | 9308.4 | 6770.8 |
| 47.5° | 9031.6 | 9081.6 | 9423.5 | 10062.0 | 10533.0 | 10613.2 | 10171.3 | 9770.1 | 9442.1 | 9856.1 | 7063.8 |
| 50° | 7750.0 | 7875.6 | 8526.9 | 9656.1 | 10644.6 | 11415.7 | 11279.6 | 10735.3 | 10073.6 | 10279.4 | 7247.6 |
| 52.5° | 6637.0 | 6632.4 | 7033.6 | 8509.4 | 10178.3 | 11769.2 | 12351.8 | 11728.5 | 10698.1 | 10548.1 | 7294.1 |
| 55° | 4860.0 | 4886.8 | 5297.3 | 6507.9 | 8933.9 | 11427.3 | 12941.5 | 12642.6 | 11414.5 | 10691.1 | 7275.5 |
| 57.5° | 2520.1 | 2652.7 | 3073.7 | 4152.9 | 6788.2 | 10250.4 | 12784.5 | 12983.3 | 12142.5 | 10792.3 | 7299.9 |
| 60° | 1273.4 | 1247.9 | 1399.0 | 1982.9 | 3933.1 | 8005.8 | 11816.9 | 12450.7 | 12273.9 | 10871.4 | 7315.0 |
| 62.5° | 850.1 | 843.1 | 801.3 | 918.7 | 1607.2 | 4741.4 | 10073.6 | 10962.1 | 11361.0 | 10685.3 | 7122.0 |
| 65° | 736.2 | 722.2 | 645.4 | 640.8 | 780.3 | 1966.6 | 7383.7 | 8617.6 | 9389.8 | 9858.4 | 6660.3 |
| 67.5° | 662.9 | 642.0 | 564.0 | 525.7 | 560.5 | 864.1 | 4161.1 | 5779.9 | 6933.6 | 8337.3 | 5648.5 |
| 70° | 591.9 | 581.5 | 503.6 | 447.7 | 444.3 | 526.8 | 1532.8 | 2983.0 | 4242.5 | 5688.1 | 4129.7 |
| 72.5° | 530.3 | 511.7 | 445.4 | 391.9 | 365.2 | 373.3 | 665.2 | 1149.0 | 2195.7 | 3548.2 | 2470.1 |
| 75° | 459.4 | 445.4 | 387.3 | 333.8 | 301.2 | 273.3 | 405.9 | 531.5 | 1001.3 | 1686.3 | 1166.5 |
| 77.5° | 354.7 | 345.4 | 305.9 | 265.2 | 246.5 | 203.5 | 246.5 | 334.9 | 462.9 | 710.6 | 607.1 |
| 80° | 205.8 | 211.7 | 227.9 | 207.0 | 181.4 | 145.4 | 160.5 | 193.1 | 277.9 | 384.9 | 344.2 |
| 82.5° | 103.5 | 110.5 | 147.7 | 119.8 | 108.2 | 84.9 | 95.4 | 114.0 | 145.4 | 212.8 | 134.9 |
| 85° | 8.1 | 8.1 | 26.7 | 30.2 | 37.2 | 30.2 | 38.4 | 46.5 | 66.3 | 84.9 | 45.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.5 | 5.8 | 10.5 | 19.8 | 12.8 |
| 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° | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 | 4055.3 |
| 2.5° | 4062.2 | 4002.9 | 3932.0 | 3873.8 | 3784.3 | 3736.6 | 3676.1 | 3601.7 | 3571.5 | 3557.5 | 3549.4 |
| 5° | 4070.4 | 3965.7 | 3814.5 | 3675.0 | 3520.3 | 3398.2 | 3262.1 | 3120.2 | 3038.8 | 3019.1 | 3005.1 |
| 7.5° | 4100.6 | 3954.1 | 3713.3 | 3483.1 | 3195.8 | 2929.5 | 2670.2 | 2413.2 | 2281.7 | 2231.7 | 2227.1 |
| 10° | 4142.5 | 3949.4 | 3611.0 | 3228.4 | 2743.4 | 2322.4 | 2018.9 | 1817.7 | 1732.8 | 1704.9 | 1695.6 |
| 12.5° | 4194.8 | 3945.9 | 3476.1 | 2874.8 | 2221.3 | 1823.5 | 1650.2 | 1617.7 | 1629.3 | 1627.0 | 1627.0 |
| 15° | 4261.1 | 3950.6 | 3313.3 | 2474.8 | 1796.8 | 1582.8 | 1586.3 | 1624.7 | 1660.7 | 1666.5 | 1666.5 |
| 17.5° | 4333.2 | 3945.9 | 3077.2 | 2073.6 | 1542.1 | 1525.8 | 1579.3 | 1632.8 | 1665.4 | 1670.0 | 1670.0 |
| 20° | 4411.1 | 3923.8 | 2779.5 | 1695.6 | 1430.4 | 1489.8 | 1547.9 | 1589.8 | 1609.5 | 1614.2 | 1614.2 |
| 22.5° | 4457.6 | 3861.0 | 2456.2 | 1435.1 | 1359.5 | 1432.8 | 1471.1 | 1514.2 | 1516.5 | 1479.3 | 1478.1 |
| 25° | 4450.7 | 3743.6 | 2087.5 | 1267.6 | 1283.9 | 1347.9 | 1396.7 | 1366.5 | 1329.3 | 1308.3 | 1304.8 |
| 27.5° | 4406.5 | 3566.8 | 1711.9 | 1140.9 | 1194.4 | 1266.5 | 1251.3 | 1225.8 | 1216.5 | 1193.2 | 1190.9 |
| 30° | 4350.6 | 3349.3 | 1374.6 | 1042.0 | 1101.3 | 1167.6 | 1144.4 | 1142.0 | 1132.7 | 1107.1 | 1107.1 |
| 32.5° | 4297.2 | 3124.9 | 1119.9 | 968.7 | 1042.0 | 1046.7 | 1079.2 | 1081.6 | 1076.9 | 1032.7 | 1028.1 |
| 35° | 4282.0 | 2900.4 | 947.8 | 910.6 | 983.9 | 981.5 | 1028.1 | 1026.9 | 946.7 | 885.0 | 883.9 |
| 37.5° | 4327.4 | 2672.5 | 845.5 | 862.9 | 903.6 | 933.9 | 971.1 | 903.6 | 876.9 | 839.7 | 837.3 |
| 40° | 4423.9 | 2462.0 | 793.1 | 835.0 | 852.5 | 896.6 | 838.5 | 843.1 | 836.2 | 808.3 | 804.8 |
| 42.5° | 4551.8 | 2282.9 | 764.1 | 825.7 | 823.4 | 835.0 | 771.0 | 789.7 | 800.1 | 779.2 | 775.7 |
| 45° | 4675.1 | 2127.1 | 748.9 | 790.8 | 802.4 | 735.0 | 722.2 | 739.6 | 755.9 | 747.8 | 744.3 |
| 47.5° | 4765.8 | 1992.2 | 740.8 | 743.1 | 775.7 | 701.3 | 680.3 | 688.5 | 708.2 | 711.7 | 710.6 |
| 50° | 4793.7 | 1877.0 | 731.5 | 703.6 | 696.6 | 667.5 | 651.3 | 648.9 | 672.2 | 688.5 | 690.8 |
| 52.5° | 4740.2 | 1774.7 | 707.1 | 668.7 | 635.0 | 639.6 | 633.8 | 622.2 | 645.4 | 667.5 | 669.9 |
| 55° | 4661.2 | 1716.5 | 668.7 | 635.0 | 595.4 | 614.0 | 616.4 | 605.9 | 621.0 | 636.1 | 636.1 |
| 57.5° | 4667.0 | 1750.3 | 631.5 | 603.6 | 560.5 | 585.0 | 597.8 | 593.1 | 593.1 | 604.7 | 605.9 |
| 60° | 4705.4 | 1799.1 | 607.1 | 564.0 | 525.7 | 551.2 | 580.3 | 575.7 | 565.2 | 580.3 | 580.3 |
| 62.5° | 4594.9 | 1734.0 | 590.8 | 525.7 | 488.4 | 518.7 | 553.6 | 551.2 | 539.6 | 564.0 | 566.4 |
| 65° | 4269.2 | 1559.5 | 572.2 | 478.0 | 451.2 | 486.1 | 516.4 | 524.5 | 514.0 | 546.6 | 552.4 |
| 67.5° | 3578.4 | 1311.8 | 536.1 | 432.6 | 414.0 | 446.6 | 475.7 | 487.3 | 479.1 | 517.5 | 522.2 |
| 70° | 2667.8 | 1061.8 | 479.1 | 382.6 | 368.7 | 397.7 | 424.5 | 429.1 | 430.3 | 475.7 | 480.3 |
| 72.5° | 1701.4 | 825.7 | 403.5 | 326.8 | 316.3 | 338.4 | 358.2 | 376.8 | 384.9 | 428.0 | 426.8 |
| 75° | 949.0 | 614.0 | 324.5 | 276.8 | 258.2 | 275.6 | 298.9 | 321.0 | 344.2 | 407.0 | 414.0 |
| 77.5° | 546.6 | 431.5 | 257.0 | 222.1 | 200.0 | 218.6 | 238.4 | 269.8 | 339.6 | 394.2 | 387.3 |
| 80° | 308.2 | 280.3 | 194.2 | 162.8 | 148.9 | 162.8 | 177.9 | 237.2 | 267.5 | 290.7 | 294.2 |
| 82.5° | 144.2 | 157.0 | 132.6 | 100.0 | 100.0 | 109.3 | 123.3 | 183.7 | 202.4 | 165.1 | 144.2 |
| 85° | 52.3 | 70.9 | 65.1 | 51.2 | 45.4 | 44.2 | 76.8 | 104.7 | 65.1 | 58.1 | 50.0 |
| 87.5° | 14.0 | 19.8 | 18.6 | 12.8 | 7.0 | 5.8 | 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)