

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: P633843

Luminaire Tested: GWS-SA2F-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15054.4 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

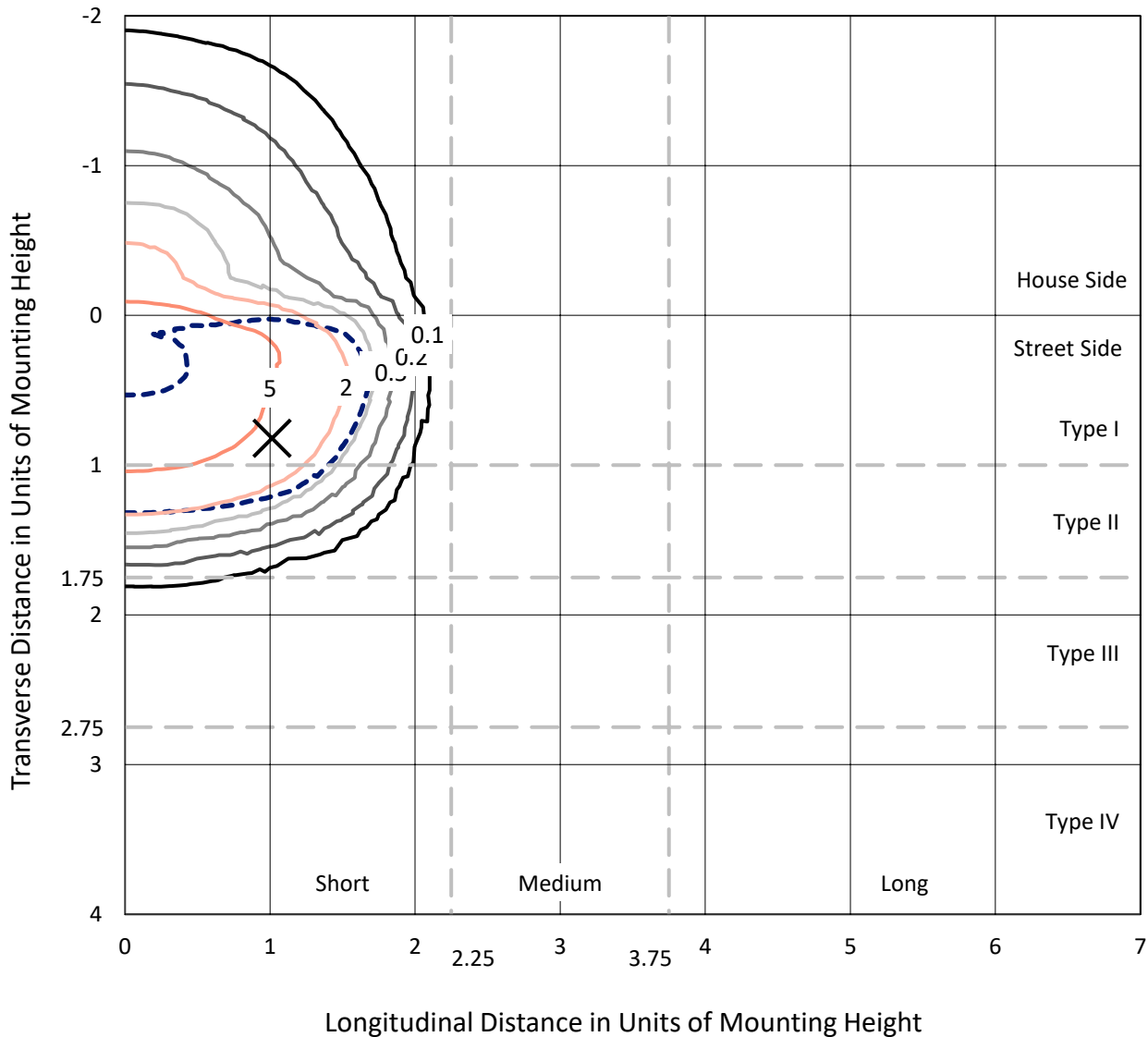
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

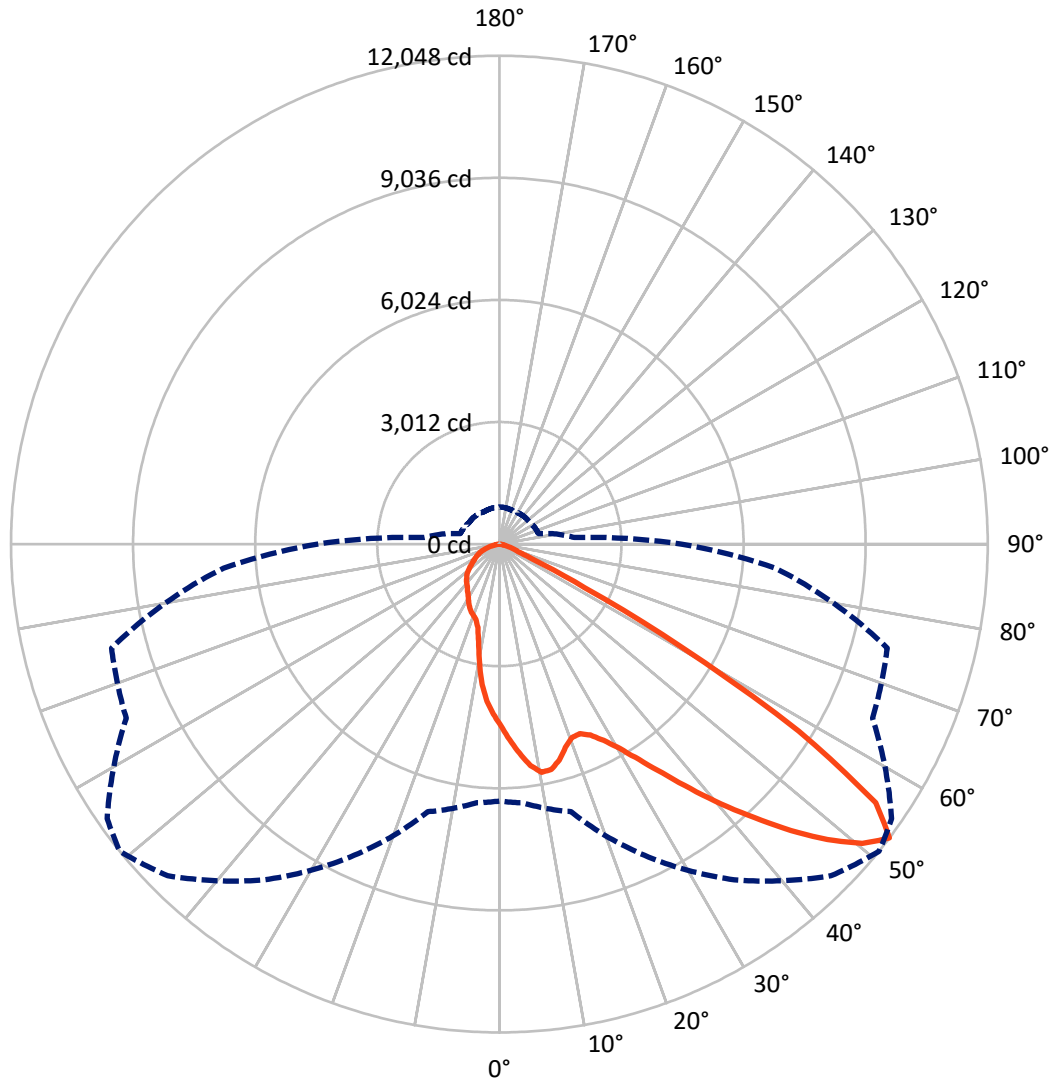
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2933.2 | 0.0 | 2933.2 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 12121.2 | 0.0 | 12121.2 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 15054.4 | 0.0 | 15054.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.3 | 2.8 |
| 10°-20° | 1086.8 | 7.2 |
| 20°-30° | 1767.1 | 11.7 |
| 30°-40° | 2800.5 | 18.6 |
| 40°-50° | 4223.7 | 28.1 |
| 50°-60° | 3653.9 | 24.3 |
| 60°-70° | 828.4 | 5.5 |
| 70°-80° | 244.2 | 1.6 |
| 80°-90° | 31.5 | 0.2 |
| 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° | 15054.4 | 100.0 |
| 0°-180° | 15054.4 | 100.0 |

Coefficient of Utilization



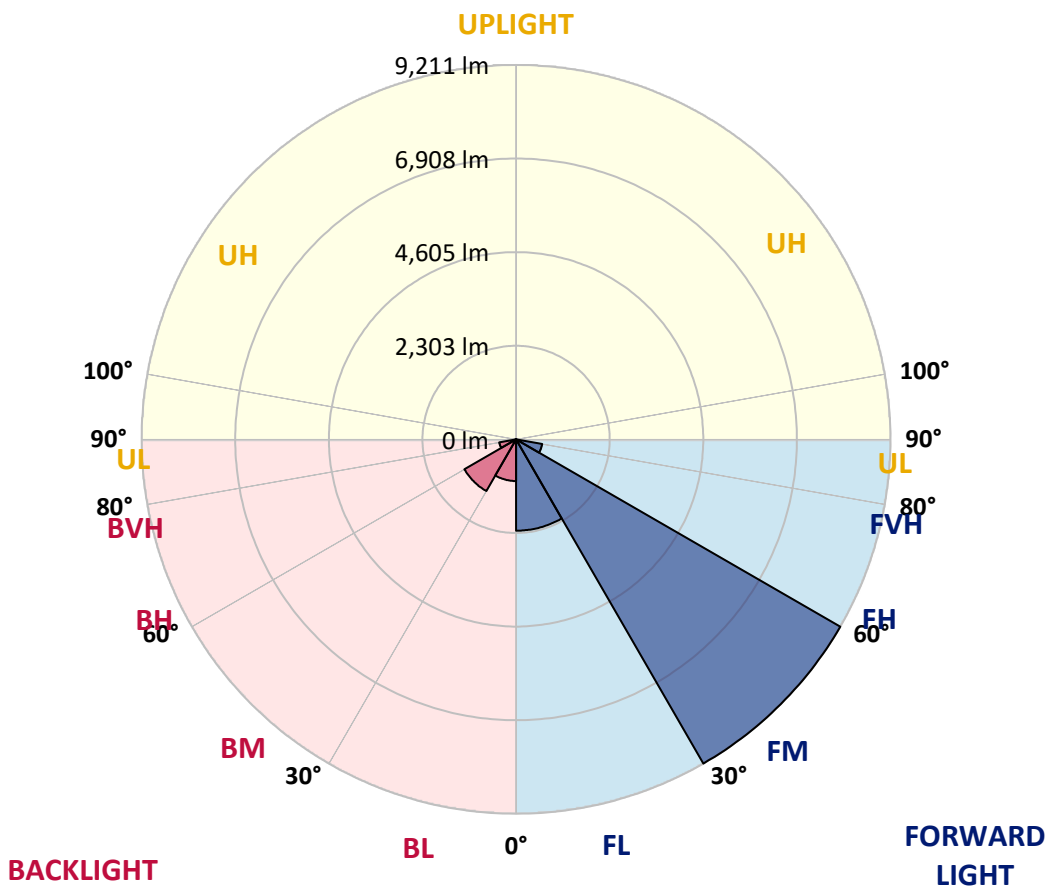
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2246.9 | 14.9 | | | |
| FM (30°-60°) | 9210.5 | 61.2 | | | |
| FH (60°-80°) | 651.9 | 4.3 | | | G0/660 |
| FVH (80°-90°) | 11.9 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1025.3 | 6.8 | B3/2500 | | |
| BM (30°-60°) | 1467.6 | 9.7 | B2/2500 | | |
| BH (60°-80°) | 420.7 | 2.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 19.6 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 51° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 |
| 2.5° | 4995.2 | 5023.7 | 4979.7 | 4963.0 | 4935.7 | 4888.1 | 4833.4 | 4817.9 | 4700.1 | 4622.8 | 4536.0 |
| 5° | 5497.2 | 5512.6 | 5477.0 | 5441.3 | 5373.5 | 5289.0 | 5183.1 | 5160.5 | 4946.4 | 4769.1 | 4584.8 |
| 7.5° | 5609.0 | 5603.1 | 5634.0 | 5654.2 | 5645.9 | 5612.6 | 5518.6 | 5474.6 | 5218.8 | 4938.1 | 4665.6 |
| 10° | 5166.5 | 5133.2 | 5247.4 | 5383.0 | 5546.0 | 5733.9 | 5723.2 | 5719.6 | 5497.2 | 5165.3 | 4769.1 |
| 12.5° | 4580.0 | 4563.3 | 4656.1 | 4826.2 | 5134.4 | 5550.7 | 5706.6 | 5827.9 | 5748.2 | 5381.8 | 4884.5 |
| 15° | 4244.5 | 4238.6 | 4301.6 | 4424.2 | 4669.2 | 5195.0 | 5528.1 | 5768.4 | 5963.5 | 5613.8 | 5007.1 |
| 17.5° | 4183.9 | 4187.4 | 4208.8 | 4279.0 | 4455.1 | 4888.1 | 5273.5 | 5609.0 | 6131.2 | 5868.3 | 5160.5 |
| 20° | 4361.1 | 4384.9 | 4348.0 | 4358.7 | 4453.9 | 4777.5 | 5099.9 | 5448.4 | 6238.3 | 6124.1 | 5325.9 |
| 22.5° | 4754.9 | 4746.5 | 4665.6 | 4618.1 | 4619.3 | 4845.3 | 5080.8 | 5373.5 | 6308.5 | 6372.7 | 5475.8 |
| 25° | 5201.0 | 5191.5 | 5095.1 | 4989.2 | 4922.6 | 5029.7 | 5217.6 | 5453.2 | 6371.5 | 6599.9 | 5595.9 |
| 27.5° | 5728.0 | 5698.2 | 5591.2 | 5455.5 | 5308.0 | 5354.4 | 5481.7 | 5668.5 | 6469.1 | 6823.6 | 5675.6 |
| 30° | 6238.3 | 6272.8 | 6119.3 | 5958.8 | 5802.9 | 5774.4 | 5848.1 | 6017.0 | 6667.8 | 7085.3 | 5770.8 |
| 32.5° | 6915.2 | 6903.3 | 6733.2 | 6523.8 | 6301.4 | 6279.9 | 6338.2 | 6492.9 | 7024.6 | 7447.0 | 5915.9 |
| 35° | 7734.8 | 7737.2 | 7495.7 | 7212.6 | 6896.2 | 6839.1 | 6936.6 | 7086.5 | 7556.4 | 7937.1 | 6145.5 |
| 37.5° | 8586.6 | 8583.0 | 8372.5 | 8051.3 | 7619.4 | 7538.6 | 7650.4 | 7762.2 | 8221.4 | 8604.4 | 6502.4 |
| 40° | 9183.8 | 9207.6 | 9108.8 | 8939.9 | 8530.7 | 8333.2 | 8431.9 | 8509.3 | 8944.7 | 9389.6 | 6972.3 |
| 42.5° | 9522.8 | 9558.5 | 9579.9 | 9681.0 | 9465.7 | 9255.2 | 9219.5 | 9259.9 | 9590.6 | 10118.8 | 7413.6 |
| 45° | 9595.4 | 9643.0 | 9798.8 | 10173.5 | 10256.8 | 10197.3 | 10080.7 | 9983.2 | 10072.4 | 10636.3 | 7702.7 |
| 47.5° | 9275.4 | 9358.7 | 9691.7 | 10347.2 | 10833.8 | 11020.5 | 10890.9 | 10742.2 | 10350.8 | 10769.5 | 7673.0 |
| 50° | 8007.3 | 8104.8 | 8855.4 | 9992.7 | 10915.9 | 11596.3 | 11608.2 | 11388.1 | 10317.5 | 10385.3 | 7299.4 |
| 52.5° | 6339.4 | 6406.0 | 6835.5 | 8471.2 | 10110.5 | 11572.5 | 12048.4 | 11812.8 | 10156.9 | 9904.7 | 6831.9 |
| 55° | 3788.9 | 3896.0 | 4296.9 | 5588.8 | 7876.4 | 10256.8 | 11270.4 | 11384.6 | 10078.4 | 9501.4 | 6513.1 |
| 57.5° | 1278.8 | 1331.2 | 1714.2 | 2468.4 | 4641.9 | 7510.0 | 8707.9 | 9171.9 | 9149.3 | 8885.2 | 5890.9 |
| 60° | 609.1 | 621.0 | 698.3 | 936.2 | 1858.2 | 3924.5 | 5154.6 | 5689.9 | 6177.6 | 6226.4 | 3665.2 |
| 62.5° | 463.9 | 471.1 | 510.3 | 561.5 | 747.1 | 1653.6 | 2362.6 | 2771.8 | 2960.9 | 2541.0 | 1334.7 |
| 65° | 387.8 | 393.8 | 423.5 | 455.6 | 508.0 | 716.1 | 906.5 | 1045.7 | 942.2 | 734.0 | 636.4 |
| 67.5° | 323.6 | 328.3 | 350.9 | 385.4 | 421.1 | 479.4 | 503.2 | 517.5 | 542.5 | 609.1 | 585.3 |
| 70° | 253.4 | 258.1 | 281.9 | 311.7 | 346.2 | 360.5 | 383.1 | 397.3 | 447.3 | 532.9 | 530.6 |
| 72.5° | 195.1 | 201.0 | 214.1 | 233.2 | 261.7 | 276.0 | 301.0 | 317.6 | 346.2 | 415.2 | 443.7 |
| 75° | 142.8 | 146.3 | 158.2 | 164.2 | 167.7 | 164.2 | 189.1 | 208.2 | 246.2 | 272.4 | 279.6 |
| 77.5° | 58.3 | 65.4 | 63.0 | 63.0 | 74.9 | 90.4 | 103.5 | 115.4 | 141.6 | 157.0 | 158.2 |
| 80° | 23.8 | 26.2 | 30.9 | 34.5 | 41.6 | 53.5 | 61.9 | 66.6 | 78.5 | 88.0 | 95.2 |
| 82.5° | 14.3 | 15.5 | 17.8 | 19.0 | 23.8 | 30.9 | 35.7 | 39.3 | 48.8 | 58.3 | 61.9 |
| 85° | 7.1 | 7.1 | 8.3 | 9.5 | 11.9 | 14.3 | 16.7 | 19.0 | 25.0 | 30.9 | 34.5 |
| 87.5° | 1.2 | 1.2 | 1.2 | 2.4 | 3.6 | 4.8 | 5.9 | 7.1 | 8.3 | 9.5 | 11.9 |
| 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° | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 | 4482.4 |
| 2.5° | 4484.8 | 4420.6 | 4345.6 | 4286.2 | 4217.2 | 4166.0 | 4093.4 | 4048.2 | 4005.4 | 3969.7 | 3943.6 |
| 5° | 4489.6 | 4381.3 | 4225.5 | 4087.5 | 3944.7 | 3809.1 | 3669.9 | 3556.9 | 3455.8 | 3371.4 | 3364.2 |
| 7.5° | 4516.9 | 4361.1 | 4117.2 | 3875.7 | 3597.4 | 3328.5 | 3059.7 | 2840.8 | 2674.2 | 2587.4 | 2569.6 |
| 10° | 4563.3 | 4358.7 | 4006.6 | 3621.2 | 3146.5 | 2713.5 | 2394.7 | 2228.1 | 2131.8 | 2097.3 | 2085.4 |
| 12.5° | 4612.1 | 4352.8 | 3865.0 | 3261.9 | 2602.9 | 2223.4 | 2048.5 | 2028.3 | 2046.1 | 2048.5 | 2047.3 |
| 15° | 4671.6 | 4349.2 | 3686.6 | 2840.8 | 2205.5 | 1996.2 | 2008.1 | 2050.9 | 2092.5 | 2102.0 | 2102.0 |
| 17.5° | 4744.2 | 4340.9 | 3443.9 | 2429.2 | 1956.9 | 1952.1 | 2015.2 | 2072.3 | 2111.6 | 2118.7 | 2118.7 |
| 20° | 4820.3 | 4319.5 | 3145.3 | 2093.7 | 1855.8 | 1924.8 | 1992.6 | 2036.6 | 2064.0 | 2073.5 | 2074.7 |
| 22.5° | 4872.6 | 4262.4 | 2801.5 | 1845.1 | 1792.7 | 1872.4 | 1921.2 | 1966.4 | 1966.4 | 1942.6 | 1935.5 |
| 25° | 4883.3 | 4139.8 | 2429.2 | 1675.0 | 1717.8 | 1791.6 | 1841.5 | 1815.3 | 1766.6 | 1747.5 | 1746.3 |
| 27.5° | 4844.1 | 3961.4 | 2061.6 | 1553.6 | 1627.4 | 1701.1 | 1692.8 | 1654.7 | 1633.3 | 1614.3 | 1621.4 |
| 30° | 4796.5 | 3747.3 | 1742.8 | 1453.7 | 1522.7 | 1595.3 | 1566.7 | 1553.6 | 1538.2 | 1516.8 | 1521.5 |
| 32.5° | 4764.4 | 3508.2 | 1497.7 | 1376.4 | 1452.5 | 1464.4 | 1484.6 | 1483.4 | 1469.2 | 1428.7 | 1426.3 |
| 35° | 4773.9 | 3266.7 | 1333.6 | 1313.3 | 1394.2 | 1389.5 | 1427.5 | 1420.4 | 1321.7 | 1265.7 | 1262.2 |
| 37.5° | 4850.0 | 3034.7 | 1237.2 | 1263.4 | 1301.4 | 1331.2 | 1364.5 | 1278.8 | 1244.3 | 1208.6 | 1211.0 |
| 40° | 4995.2 | 2819.4 | 1184.9 | 1236.0 | 1245.5 | 1289.5 | 1212.2 | 1211.0 | 1195.6 | 1163.4 | 1162.2 |
| 42.5° | 5159.3 | 2637.4 | 1149.2 | 1222.9 | 1209.8 | 1218.2 | 1136.1 | 1145.6 | 1144.4 | 1124.2 | 1118.2 |
| 45° | 5259.3 | 2469.6 | 1120.6 | 1174.1 | 1177.7 | 1094.4 | 1069.5 | 1080.2 | 1086.1 | 1075.4 | 1074.2 |
| 47.5° | 5155.8 | 2276.9 | 1090.9 | 1099.2 | 1130.1 | 1038.5 | 1007.6 | 1008.8 | 1019.5 | 1020.7 | 1015.9 |
| 50° | 4865.5 | 2061.6 | 1055.2 | 1035.0 | 1014.7 | 980.2 | 951.7 | 945.7 | 956.4 | 967.2 | 970.7 |
| 52.5° | 4490.8 | 1855.8 | 995.7 | 964.8 | 917.2 | 917.2 | 904.1 | 885.1 | 899.3 | 913.6 | 918.4 |
| 55° | 4216.0 | 1703.5 | 911.2 | 876.7 | 824.4 | 842.2 | 839.9 | 823.2 | 842.2 | 852.9 | 856.5 |
| 57.5° | 3653.3 | 1369.2 | 801.8 | 791.1 | 747.1 | 768.5 | 773.2 | 751.8 | 742.3 | 744.7 | 748.3 |
| 60° | 2168.7 | 883.9 | 723.3 | 722.1 | 682.8 | 707.8 | 722.1 | 700.7 | 672.1 | 675.7 | 680.5 |
| 62.5° | 973.1 | 675.7 | 624.5 | 619.8 | 618.6 | 650.7 | 666.2 | 646.0 | 605.5 | 609.1 | 613.8 |
| 65° | 612.6 | 584.1 | 542.5 | 542.5 | 561.5 | 588.9 | 600.8 | 584.1 | 537.7 | 531.8 | 536.5 |
| 67.5° | 568.6 | 543.7 | 500.8 | 492.5 | 502.0 | 524.6 | 525.8 | 493.7 | 466.3 | 461.6 | 461.6 |
| 70° | 510.3 | 491.3 | 449.7 | 433.0 | 429.4 | 428.3 | 424.7 | 416.4 | 398.5 | 393.8 | 396.1 |
| 72.5° | 422.3 | 409.2 | 383.1 | 365.2 | 355.7 | 354.5 | 340.2 | 333.1 | 317.6 | 315.2 | 314.1 |
| 75° | 279.6 | 283.1 | 283.1 | 280.7 | 272.4 | 268.9 | 253.4 | 246.2 | 228.4 | 221.3 | 220.1 |
| 77.5° | 165.4 | 168.9 | 173.7 | 174.9 | 173.7 | 173.7 | 159.4 | 151.1 | 133.2 | 123.7 | 121.3 |
| 80° | 101.1 | 103.5 | 105.9 | 109.4 | 104.7 | 101.1 | 88.0 | 79.7 | 71.4 | 65.4 | 64.2 |
| 82.5° | 65.4 | 67.8 | 69.0 | 71.4 | 69.0 | 64.2 | 53.5 | 48.8 | 42.8 | 38.1 | 36.9 |
| 85° | 36.9 | 38.1 | 40.4 | 40.4 | 36.9 | 33.3 | 27.4 | 23.8 | 20.2 | 17.8 | 17.8 |
| 87.5° | 13.1 | 13.1 | 13.1 | 14.3 | 11.9 | 10.7 | 7.1 | 4.8 | 3.6 | 3.6 | 3.6 |
| 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)